CATALOGUE OF MALAWI STANDARDS

2017

Malawi Bureau of Standards
Moirs Road
P.O Box 946
Blantyre
MALAWI

E-mail : mbs@mbsmw.org
Website : www.mbsmw.org
## CONTENTS

<table>
<thead>
<tr>
<th>Introduction</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mission of the Malawi Bureau of Standards</td>
<td>2</td>
</tr>
<tr>
<td>Objectives of the Malawi Bureau of Standards</td>
<td>3</td>
</tr>
<tr>
<td>Malawi Bureau of Standards Organizational Structure</td>
<td>4</td>
</tr>
<tr>
<td>List of Technical Committees of the Malawi Bureau of Standards</td>
<td>5</td>
</tr>
<tr>
<td>List of Withdrawn Standards</td>
<td>6</td>
</tr>
<tr>
<td>Price list of Malawi Standards</td>
<td>10</td>
</tr>
<tr>
<td>Standards Development Pathway</td>
<td>11</td>
</tr>
<tr>
<td>Numerical list of Malawi Standards</td>
<td>12</td>
</tr>
<tr>
<td>List of Standards according to ICS classification</td>
<td>133</td>
</tr>
<tr>
<td>Summary analysis of printed Malawi Standards</td>
<td>178</td>
</tr>
<tr>
<td>List of COMESA standards adopted by Malawi</td>
<td>179</td>
</tr>
<tr>
<td>List of SADC standards adopted by Malawi</td>
<td>189</td>
</tr>
<tr>
<td>Alphabetical index</td>
<td>190</td>
</tr>
</tbody>
</table>

© 2017 Catalogue of Malawi standards
INTRODUCTION

The Malawi Bureau of Standards (MBS) is a statutory organization established by an Act of Parliament Chapter 51:02 in 1972. It is charged with the preparation and promulgation of national standards with a view of helping the local industry to produce quality products and services, hence enabling them to compete effectively in world markets. Its work in standards, testing, quality assurance, metrology and export guidance is geared to enable local companies to meet quality needs of buyers at home and abroad. The Malawi standards listed in this catalogue have been approved by the Malawi Standards Board and are ready for implementation by any interested parties. The entries are in two parts. In part one, standards are arranged according to their serial numbers and the second part is a listing of the standards according to subject based on the International Classification for Standards. A list of draft standards - which are still at Committee stage – is contained in a separate publication, the MBS STANDARDS WORK PROGRAMME which is published twice annually.

THE LIBRARY

The MBS Library holds a wide collection of national (Malawi), international and foreign national standards, and other publications related to standardization. The library is open for search and reference materials during normal working hours, Monday to Friday, exception public holidays.

The Library also operates Member Subscription Schemes for industries, institutions and individuals. Members of these schemes receive a variety of MBS publications which include MBS Newsletters, Annual Reports, Standards Catalogue, and Standards Work Programme in addition to being entitled to privileges which range from easy access to the library, to getting discounts on publications obtained from the MBS.

SALE OF MALAWI AND FOREIGN STANDARDS AND PUBLICATIONS

Malawi standards, foreign national and international standards and other publications may be obtained from the MBS Library on Moirs Road, in Blantyre. Mail orders may be sent to the Director-General, Malawi Bureau of Standards, P O Box 946, Blantyre or E-mail: mbs@mbsmw.org. The MBS, being the sole local sales agent for members of the International Organization for Standardization (ISO), also accepts orders for all foreign standards.
MISSION OF THE MBS

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE MISSION OF MBS IS TO CONTRIBUTE, BY PROMOTING QUALITY AND STANDARDIZATION TOWARDS THE STRENGTHENING OF THE ECONOMY OF MALAWI AND TOWARDS ENHANCING THE QUALITY OF LIFE OF ALL ITS PEOPLE.

THE BUSINESS OF MBS

In carrying out its mission, the MBS offers the following:

1. Standards preparation:

   Standards are prepared and updated in collaboration with interested groups through Technical Committees and public comments.

2. Certification services

   Quality Certification Scheme in respect of products and services that comply with national standards is offered to the industry for local or international trade.

3. Technical information

   The MBS-DIS provides information on local and international standards including technical regulations.

4. Testing services

   Products are tested or analysed to specifications.

5. Metrology services

   Verification and calibration of measuring equipment used monitoring weight and volume of prepacked commodities for retail.

6. Industrial research, training and consultancy

   The service is provided to cater for quality improvement of products and services and product development.

7. Quality systems certification

   Certification Scheme for Quality Management Systems conforming to MS-ISO 9001.

8. International liaison:

   Fostering standardization activities through co-operation with African Regional Organizational for Standardization, International Organization for Standardization and other standards bodies.

THE MBS QUALITY MARK

The Quality Mark is applied to a commodity that complies with a standard specification that comprehensively covers all the known characteristic requirements to ensure that the product is fit for its purpose.

Manufacturers wishing to apply the MBS quality mark on their commodities should contact:

The Director General
Malawi Bureau of Standards
Moirs Road
P. O. Box 946
Blantyre
Tel: +265 1870 488
Fax: +265 1870 756
E-mail: mbs@mbsmw.org

© 2017 CATALOGUE OF MALAWI STANDARDS
OBJECTIVES OF THE MBS

The MBS Act outlines the following objectives which have to be executed by the organization in order to fulfil its mandate:

a. To promote standardization in commerce and industry;
b. To preparation and issue of standards and to administer schemes based thereon;
c. To make arrangements to provide facilities for testing and calibration of precision instruments, gauges and scientific apparatus, for the determination of their degree of accuracy by comparison with standards, approved by the Minister on the recommendation of the Board, and for the issue of certificates in regard thereto;
d. To make arrangements or provide facilities in order to examine, test or analyze articles, materials and substances;
e. To provide for testing of locally manufactured or imported commodities with a view to determine whether such commodities comply with the provisions of the MBS Act, the Merchandize Marks Act or any other law relating to standards of quality;
f. To control the use of standardization marks;
g. To encourage or undertake educational work in connection with standardization;
h. To provide for cooperation with any person, association or organization outside Malawi having objects similar to those of the Bureau;
i. To assist any ministry, Government department, local authority, other public authority or any statutory corporations in preparation and framing of the specifications or codes of practice required by it;
j. To provide for corporation with the representatives of any branch of industry, ministry, Government Department, local authority, other public authority or any other statutory corporation or with any person with a view to bringing about standardization in connection with commodities;
k. To assess quality systems and to administer the certification by such systems thus assessed;
l. To supply reference material for specific purposes; and
m. To perform, in so far as it is not repugnant to or inconsistent with the provisions of any written law, such functions as the Minister may assign to the Bureau, so as to promote and maintain standardization and quality regarding commodities.
**LIST OF TECHNICAL COMMITTEES**

Formulation of Malawi standards is done through Technical Committees whose membership covers representatives from the industry, government, non-governmental organizations, professional bodies, consumers and other interested parties. Below is a list of the current Technical Committees:

| TC 1  | Basic standards                  | TC 24 | Cells and batteries       |
| TC 2  | Pipes and fittings               | TC 25 | Leather and leather products |
| TC 3  | Bricks and tiles                 | TC 26 | Textiles and garments     |
| TC 4  | Electrical and general safety standards | TC 27 | Fertilizers and Agricultural chemicals |
| TC 6  | Packaging                        | TC 28 | Cosmetics                  |
| TC 7  | National building regulations    | TC 29 | Fertilizers (combined with TC 27) |
| TC 8  | Spices and condiments            | TC 30 | Environmental protection and pollution Control |
| TC 9  | Cement and limes                 | TC 32 | Stationery and publications |
| TC 10 | Processed foods                  | TC 33 | Iron and steel products   |
| TC 11 | Beverages                        | TC 34 | Meat and meat products    |
| TC 12 | Paints and varnishes             | TC 35 | Kitchen and tableware    |
| TC 13 | Chemicals and chemical laboratories | TC 36 | Rubber and rubber products |
| TC 14 | Edible oils and fats             | TC 37 | Pharmaceuticals and healthcare products |
| TC 15 | Soaps and detergents             | TC 38 | Brush-ware and dusters    |
| TC 16 | Primary agricultural products    | TC 39 | Fish and fishery products |
| TC 17 | Timber and timber products       | TC 41 | Tobacco and tobacco products |
| TC 18 | Tea                              | TC 42 | Tourism                   |
| TC 19 | Bread and confectioneries        | TC 43 | Traditional medicine      |
| TC 20 | Petroleum products               | TC 44 | Plastics                  |
| TC 21 | Coal, paraffin and solar Heaters |       |                           |
| TC 22 | Farm implements                  |       |                           |
| TC 23 | Milk and milk products           |       |                           |
# LIST OF WITHDRAWN STANDARDS

<table>
<thead>
<tr>
<th>Withdrawn standard</th>
<th>Replaced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. MBS 1:1973</td>
<td>MS 18:1982</td>
</tr>
<tr>
<td>2. MBS 3:1976</td>
<td>MS 3:2004</td>
</tr>
<tr>
<td>3. MBS 4:1976</td>
<td>MS 4:1993</td>
</tr>
<tr>
<td>4. MBS 5:1976</td>
<td>MS 5:1993</td>
</tr>
<tr>
<td>5. MBS 6:1979</td>
<td>MS 6:1994</td>
</tr>
<tr>
<td>6. MBS 18:1982</td>
<td>MS 18:2010</td>
</tr>
<tr>
<td>14. MBS 34:2002</td>
<td>MS 34:2011</td>
</tr>
<tr>
<td>15. MBS 37:1995</td>
<td>MS 37:2002</td>
</tr>
<tr>
<td>17. MBS 44:1996</td>
<td>MS 44:2004</td>
</tr>
<tr>
<td>22. MBS 92:1986</td>
<td>MS 92:2013</td>
</tr>
<tr>
<td>24. MBS 103:1988</td>
<td>MS 103:1993</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>29.</td>
<td>MBS 179:1988</td>
</tr>
<tr>
<td>31.</td>
<td>MBS 201:1989</td>
</tr>
<tr>
<td>32.</td>
<td>MBS 202:2011</td>
</tr>
<tr>
<td>34.</td>
<td>MBS 212:1995</td>
</tr>
<tr>
<td>35.</td>
<td>MBS 214:1990</td>
</tr>
<tr>
<td>36.</td>
<td>MS 214:2005</td>
</tr>
<tr>
<td>37.</td>
<td>MBS 225:1995</td>
</tr>
<tr>
<td>40.</td>
<td>MBS 253:1991</td>
</tr>
<tr>
<td>42.</td>
<td>MBS 258:1991</td>
</tr>
<tr>
<td>43.</td>
<td>MBS 267:1991</td>
</tr>
<tr>
<td>44.</td>
<td>MBS 272:1991</td>
</tr>
<tr>
<td>47.</td>
<td>MBS 304:1991</td>
</tr>
<tr>
<td>49.</td>
<td>MBS 414:1992</td>
</tr>
<tr>
<td>50.</td>
<td>MBS 489:1995</td>
</tr>
<tr>
<td>51.</td>
<td>MBS 509:1995</td>
</tr>
<tr>
<td>52.</td>
<td>MS 557:2001</td>
</tr>
<tr>
<td>53.</td>
<td>MBS 569:1995</td>
</tr>
<tr>
<td>54.</td>
<td>MS 639-1:1997</td>
</tr>
<tr>
<td>---</td>
<td>-------------------</td>
</tr>
<tr>
<td>60.</td>
<td>MS-ISO 17021:2006</td>
</tr>
</tbody>
</table>
CERTIFIED FOR QUALITY

The Malawian Bureau of Standards offers assurances of quality of local products through third party certification. The Mark of Quality assures the consumers of quality, gives vendors product confidence, the country a high quality of living, and the MBS service satisfaction.

For details contact:

Director - General
MALAWI BUREAU OF STANDARDS
P. O. Box 946
Blantyre

Tel: +265 1 870 488
Fax: +265 1 870 756
E-mail: mbs@mbsmw.org
Website: www.mbsmw.org

STANDARDIZATION AND QUALITY CONTROL

KEY TO INDUSTRIAL DEVELOPMENT
## PRICE LIST FOR MALAWI STANDARDS

(Effective 1st August 2016)

The following is the price list for Malawi Standards categorized on page number

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of pages</th>
<th>Local Price (MK)</th>
<th>+ 16.5% Sur-tax (MK)</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1 – 2</td>
<td>2,360.52</td>
<td>389.48</td>
<td>3,000.00</td>
</tr>
<tr>
<td>B</td>
<td>3 – 4</td>
<td>2,832.62</td>
<td>467.38</td>
<td>3,500.00</td>
</tr>
<tr>
<td>C</td>
<td>5 – 6</td>
<td>3,304.72</td>
<td>545.28</td>
<td>4,000.00</td>
</tr>
<tr>
<td>D</td>
<td>7 – 8</td>
<td>3,776.82</td>
<td>623.18</td>
<td>4,500.00</td>
</tr>
<tr>
<td>E</td>
<td>9 – 10</td>
<td>4,248.93</td>
<td>701.07</td>
<td>5,000.00</td>
</tr>
<tr>
<td>F</td>
<td>11 – 13</td>
<td>4,248.93</td>
<td>701.07</td>
<td>5,000.00</td>
</tr>
<tr>
<td>G</td>
<td>14 – 16</td>
<td>4,721.03</td>
<td>778.97</td>
<td>6,000.00</td>
</tr>
<tr>
<td>H</td>
<td>17 – 19</td>
<td>5,193.13</td>
<td>856.87</td>
<td>6,500.00</td>
</tr>
<tr>
<td>I</td>
<td>20 – 22</td>
<td>5,193.13</td>
<td>856.87</td>
<td>6,500.00</td>
</tr>
<tr>
<td>J</td>
<td>23 – 25</td>
<td>5,193.13</td>
<td>856.87</td>
<td>6,500.00</td>
</tr>
<tr>
<td>K</td>
<td>26 – 28</td>
<td>5,150.21</td>
<td>849.79</td>
<td>7,000.00</td>
</tr>
<tr>
<td>L</td>
<td>29 – 30</td>
<td>6,137.34</td>
<td>1,012.66</td>
<td>7,500.00</td>
</tr>
<tr>
<td>M</td>
<td>31 – 35</td>
<td>6,137.34</td>
<td>1,012.66</td>
<td>7,500.00</td>
</tr>
<tr>
<td>N</td>
<td>36 – 40</td>
<td>6,137.34</td>
<td>1,012.66</td>
<td>7,500.00</td>
</tr>
<tr>
<td>O</td>
<td>41 – 45</td>
<td>6,137.34</td>
<td>1,012.66</td>
<td>7,500.00</td>
</tr>
<tr>
<td>P</td>
<td>46 – 50</td>
<td>6,609.44</td>
<td>1,090.56</td>
<td>8,000.00</td>
</tr>
<tr>
<td>Q</td>
<td>51 – 60</td>
<td>6,609.44</td>
<td>1,090.56</td>
<td>8,000.00</td>
</tr>
<tr>
<td>R</td>
<td>61 – 70</td>
<td>6,609.44</td>
<td>1,090.56</td>
<td>8,000.00</td>
</tr>
<tr>
<td>S</td>
<td>71 – 80</td>
<td>7,081.55</td>
<td>1,168.45</td>
<td>8,500.00</td>
</tr>
<tr>
<td>T</td>
<td>81 – 90</td>
<td>7,081.55</td>
<td>1,168.45</td>
<td>8,500.00</td>
</tr>
<tr>
<td>U</td>
<td>91 – 100</td>
<td>8,025.75</td>
<td>1,324.25</td>
<td>9,500.00</td>
</tr>
<tr>
<td>V</td>
<td>101 – 120</td>
<td>8,497.85</td>
<td>1,402.15</td>
<td>10,000.00</td>
</tr>
<tr>
<td>W</td>
<td>121 – 140</td>
<td>8,497.85</td>
<td>1,402.15</td>
<td>10,000.00</td>
</tr>
<tr>
<td>X</td>
<td>141 – 160</td>
<td>8,497.85</td>
<td>1,402.15</td>
<td>10,000.00</td>
</tr>
<tr>
<td>Y</td>
<td>161 – 180</td>
<td>8,969.96</td>
<td>1,480.04</td>
<td>10,500.00</td>
</tr>
<tr>
<td>Z</td>
<td>181 – 200</td>
<td>8,969.96</td>
<td>1,480.04</td>
<td>10,500.00</td>
</tr>
<tr>
<td>AA</td>
<td>201 – 225</td>
<td>8,969.96</td>
<td>1,480.04</td>
<td>10,500.00</td>
</tr>
<tr>
<td>AB</td>
<td>226 – 250</td>
<td>9,442.06</td>
<td>1,557.94</td>
<td>11,000.00</td>
</tr>
<tr>
<td>AC</td>
<td>251 – 275</td>
<td>9,914.16</td>
<td>1,635.84</td>
<td>12,000.00</td>
</tr>
<tr>
<td>AD</td>
<td>276 – 300</td>
<td>9,914.16</td>
<td>1,635.84</td>
<td>12,000.00</td>
</tr>
</tbody>
</table>
STANDARDS DEVELOPMENT PATHWAY

MBS BOARD
Approval of draft standards to Malawi Standards

SPAC
Review of policy issues of draft standards and their implementation

TECHNICAL COMMITTEE WORK
12 Technical committees

TECHNICAL COMMITTEE WORK
10 Technical committees

TECHNICAL COMMITTEE WORK
16 Technical committees

MBSB  MALAWI BUREAU OF STANDARDS BOARD
SPAC  STANDARDS POLICY ADVISORY COMMITTEE
CTDC  CHEMICALS AND TEXTILES DIVISIONAL COMMITTEE
FADC  FOOD AND AGRICULTURE DIVISIONAL COMMITTEE
EMDC  ENGINEERING AND MATERIALS DIVISIONAL COMMITTEE
MALAWI STANDARDS

PART 1

NUMERICAL LIST OF MALAWI STANDARDS

MS 2:1976 NON-METALLIC CONDUIT AND FITTINGS (FOR ELECTRICAL WIRING) – SPECIFICATION (1 p) M
Covers conduits and fittings manufactured from non-metallic materials. It is basically for conduits and fittings of unplasticized polyvinyl chloride, but also applies to conduits which meet the requirements of the specification.

This specification covers two duties (normal and heavy) of unplasticized poly(vinyl chloride) (PVC-U) pipes of nominal sizes 110-630 mm and one duty of PVC-U pipe fittings of nominal sizes 110 mm and 160 mm, intended for underground non-pressure applications in the construction of sewers and drains where temperatures continuously in excess of 60 °C are not encountered.

The specification covers fittings manufactured predominantly by the injection-moulding process, but does not cover fittings produced by fabrication only.

It also covers two methods of jointing, namely by means of solvent cement (for pipes of nominal size not exceeding 200 mm) and by means of rubber joint rings.

MS 4:1993 UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) TYPE 1, PRESSURE PIPES AND FITTINGS (FOR COLD WATER SERVICES) – SPECIFICATION (Second edition) (21 p) M
Covers unplasticized polyvinyl chloride type 1 pipes and injection moulded fittings intended for cold water services under pressure at ambient temperature not below 25 °C.

MS 5:1993 UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPES AND PIPE FITTINGS FOR USE ABOVE GROUND IN DRAINAGE INSTALLATIONS – SPECIFICATION (Second Edition) (14 p) M
Covers unplasticized polyvinyl chloride pipes and injection moulded pipe fittings intended for use above-ground non-pressure applications (such as soil water, waste water and ventilating pipes) where continuous temperatures in excess of 60 °C are not encountered.

Covers bricks made from clay, brick-earth or shale, and hardened by firing.

MS 7:1980 UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPES INSTALLATION – CODE OF PRACTICE (30 p) M
Presents the comparative physical, chemical, and mechanical properties of unplasticized polyvinyl chloride pipes in common use, to provide guidance in their selection for applications and to define sound practice in fabrication and installation of such pipe work.

MS 8:1980 MANUALLY OPERATED AIR BREAK SWITCHES – SPECIFICATION (24 p) M
Covers the following types of manually operated air-break switches rated at not more than 60 amperes and 250 volts to earth, or 30 amperes and 660 volts between poles.
PLUGS, SOCKET OUTLETS AND SOCKET OUTLET ADAPTORS – SPECIFICATION (14 p) M

Covers three-pin plugs, socket outlets and socket outlet adaptors intended for use at nominal statutory supply voltage to earth, and current not exceeding 15 amperes, and intended for use in household and similar purposes

TUNG OIL – SPECIFICATION (8 p) M

Defines the properties of and methods for testing tung oil of two types known in the trade as Type F and Type M derived respectively from Aleurites fordit Hemsley and from Alcurites montana Wilson. The standard is not intended for tung oils which are wholly or partly solidified as a result of isomerization. The tests given in this standard are devised to test the purity of the oil and not to test its technological properties.

ARTIFICIAL VINEGAR – SPECIFICATION (2 p) M

Applies to artificial vinegar produced from glacial acetic acid and water with or without caramel as a colouring matter and intended for use as a condiment.

VINEGAR – METHODS OF TEST (2 p) V

Specifies methods of test for vinegar intended for use as condiments.

GLASS-REINFORCED POLYESTER (GRP) LAMINATED PRODUCTS – SPECIFICATION (8 p) M

Covers requirements for products of the following two types manufactured from glass-reinforced polyester (GRP) laminated products by means of contact moulding at pressures not exceeding one bar: Types S and F.

GLASS-REINFORCED POLYESTER (GRP) LAMINATED SHEETS (PROFILE OR FLAT) – SPECIFICATION (5 p) M

Covers the requirements for two types of profile or flat sheets made of glass-reinforced (GRP) laminates. It does not cover moulded canopies or curved sheets.

FLEXIBLE CORDS FOR POWER AND LIGHTING APPLIANCES – SPECIFICATION (11 p) M

Covers flexible cords for use on domestic appliances requiring an electrical voltage not exceeding 300 V to earth, including non-domestic appliances available for operation by members of the public.

Flexible cords used for the internal wiring of electrical apparatus, pre-wired pendant cords for the static suspension of lighting fittings, cords with more than seven conductors, tinsel and screened flexible cords and cords for use in circuits not exceeding 40 V to earth, are excluded from the requirements of the specification.

APPARATUS CONNECTOR FOR PORTABLE DOMESTIC APPLIANCES – SPECIFICATION (6 p) M

Covers apparatus connectors, inlet sockets and inlet plugs, intended to form detachable connectors between single-phase portable domestic electrical appliances and flexible cords for the operation of such appliances at voltage not exceeding 250 volts.
MS 17:1984  SAFETY OF ELECTRICAL APPLIANCES – SPECIFICATION (48 p) M

Covers the safety of electrical cooking, heating, motor-operated and magnetically controlled domestic appliances for use at voltage above 42 V and not exceeding 250 V to earth. It also covers other electrical appliances, for use in that voltage range, that are available to members of the public for use in circumstances not covered by specific safety legislation.

If any appliance falling within the scope of this specification contains any component covered by an individual compulsory standard specification, such component shall moreover comply with the requirements of that specification.

It also covers general requirements applicable to all appliances.

MS 18:2010  CARBONATED SOFT DRINKS – SPECIFICATION (Second edition) (8 p) M

This Malawi Standard specifies requirements for carbonated soft drinks. The standard does not cover requirements for fruit juices, fruit flavoured drinks and comminuted fruit drinks.

MS 19:2001  LABELLING OF PREPACKED FOODS – GENERAL STANDARD (7 p) M

Covers the general requirements for labeling of all pre-packed foods to be offered as such to the consumer. (Specific requirements for different foods are contained in respective food standards).

MS 20:1983  BLOW MOULDED PLASTIC CONTAINERS UP TO 5 LITRES CAPACITY – SPECIFICATION (8 p) M

Covers minimum requirements for plastic containers of nominal capacity up to 5 litres intended for storage of commodities other than explosives, compressed gases and radio-active materials.

MS 21:2002  FOOD AND FOOD PROCESSING UNITS – CODE OF HYGIENIC CONDITIONS (17 p) M

Provides a basis for establishing code of hygienic practice, which will ensure uniformity in the hygienic handling and maintaining of commodities and processing units.


Specifies methods of test for carbonated soft drinks.

MS 23:1984  PROCESSED FRUITS AND VEGETABLES – METHODS OF TEST (8 p) V

Prescribes the methods of sampling and test for processed fruits and vegetables.

MS 24:1984  CANNED PINEAPPLES – SPECIFICATION (4 p) M

Covers the manufacture, production, processing and treatment of canned pineapples.

MS 25:1984  TOMATO PUREE – SPECIFICATION (2 p) M

Gives specification for processed tomato concentrates which do not include products commonly known as tomato sauce, chilli sauce, and ketchup, or similar products which are highly seasoned products of varying concentrations containing characterizing ingredients such as
pepper, onions, vinegar, sugar, etc., in quantities that materially alter the flavour, aroma and taste of the tomato components.

**MS 26:1984**  
**TOMATO JUICE – SPECIFICATION (2 p) M**  
Prescribes the requirements and the methods of test for tomato juices.

**MS 27:1984**  
**TOMATO SAUCE – SPECIFICATION (2 p) M**  
Prescribes the requirements and the methods of test for tomato sauce.

**MS 28:1984**  
**CANNED TOMATOES – SPECIFICATION (3 p) M**  
Prescribes the requirements and the methods of test for canned tomatoes.

**MS 29:2001**  
**CEMENT – SPECIFICATION (Second edition) (25 p) M**  
Defines and gives the specifications of 27 distinct common cement products and their constituents. The definition of each cement includes the proportions in which the constituents are to be combined to produce these distinct products in a range of six strength classes.

**MS 30:2011**  
**FORTIFIED WHEAT FLOUR – SPECIFICATION (Third edition) (9q p) M**  
This standard applies to wheat flour for direct human consumption prepared from common wheat, *Triticum aestivum* L., or club wheat, *Triticum compactum* Host, or mixtures thereof, which is prepackaged ready for sale to the consumer or destined for use in other food products.

**MS 31:2015**  
**COMMON BREAD – SPECIFICATION (Second edition) (14p) M**  
Prescribes the requirements and methods of test for white bread, brown bread, wholemeal bread and enriched bread.

**MS 32:1998**  
**MAIZE GRAIN – SPECIFICATION (Second edition) (4 p) M**  
Applies to maize grain for direct human consumption, i.e. ready for its intended use as human food, presented in package, or sold loose from the package directly to the consumer. This standard specifies the requirements for whole grain, shelled dent maize (*Zea mays* Indentata L) and/or shelled flint maize (*Zea mays* Induranta L) or their hybrids. It does not apply to processed maize.

**MS 33:1985**  
**CANDLES – SPECIFICATION (2 p) M**  
Prescribes the requirements and methods of test for candles.

**MS 34:2011**  
**FORTIFIED MAIZE FLOUR (UFA) – SPECIFICATION (Third edition) (7 p) M**  
This Malawi standard prescribes requirements and methods of sampling and analysis for maize (*Zea mays* L.) flour or meal, (ufa) intended for human consumption.

**MS 35:1986**  
**PRIMARY DRY BATTERIES – SPECIFICATION (8 p) M**  
Lays down specifications, dimensions, tests and requirements of single cell leclanche type dry batteries and applies to batteries of designations R6, R14, and R20 for use in flashlights, transistor radio receivers, hearing-aids and other electronic appliances where high current is not desired.
MS 36:2012  WOOD ADHESIVES - TERMINOLOGY AND CLASSIFICATION (16p) M

This standard covers the definition of terms relating to adhesives for wood and the classification of adhesives for wood according to their inherent properties.

MS 37:2002  PRESERVATIVE–TREATED TIMBER – SPECIFICATION (15 p) M

Specifies requirements of treated timber (other than the method of treatment) for preservative-treated timber and timber products (other than composite board products and timber products) at various levels of preservative treatment that are considered to be acceptable for a range of hazard conditions.

MS 38:1995  UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) RIGID CONDUIT AND FITTINGS FOR USE IN ELECTRICAL INSTALLATIONS – METHODS OF TEST (13 p)

Outlines methods of test for assessing compliance of UPVC rigid conduit and fittings for electrical installations with relevant performance requirements.

MS 40:2000  DETERGENT SKIN CLEANSER - SPECIFICATION (12p) M

This standard covers two types of detergent skin cleansers for personal hygiene that are suitable for use in detergent dispensers.

MS 42:2003  BATHING BARS – SPECIFICATION (7p) M

This standard prescribes requirements and methods of sampling and test for bathing bars.

MS 43:2013  BLACK TEA – DEFINITION AND BASIC REQUIREMENTS (3 p) M third ed

This Malawi standard specifies the parts of a named plant that are suitable for making black tea for consumption as a beverage and the chemical requirements for black tea that are used to indicate that tea from that source has been produced in accordance with acceptable practice.

It also specifies the packaging and marking requirements for black tea in containers.

It is not applicable to decaffeinated black tea.


This standard covers the classification of timber preservatives, hazard conditions for timber, the solvents used for timber preservatives, the preparation of timber for treatment and the various treatment processes for timber. Recommendations relating to the handling and safety of preservative-treated timber are also given.

This standard does not cover treatment with fire retardants.

MS 45:2001  LUBRICATING GREASE – SPECIFICATION (9 p) M

This standard covers the performance requirements of four classes of lubricating grease namely, industrial non-extreme pressure, industrial high performance extreme pressure, and automotive non-extreme pressure, each in four consistency grades, and all of which can contain suspended solid lubricants.
MS 46:1996  ADHESIVES FOR THE LAMINATING AND FINGER-JOINTING OF TIMBER FOR FURNITURE AND JOINERY, PHENOLIC AND AMINOPLASTIC RESIN – SPECIFICATION (7 p) M

The specification covers the chemical, physical and performance requirements for three exposure classes of resin adhesives for wood, supplied in liquid or powder form, and based on the chemical reaction with formaldehyde of melamine, urea, melamine-urea compounds, or phenolic compounds. The specification does not cover adhesives supplied in film form.


Specifies requirements for carbolic soap for personal hygiene, which contains additions of phenolic substances such as cresylic acid.


Specifies the requirements for toilet soap for personal hygiene. It does not provide for speciality soaps, such as medicated soaps.

MS 50:1988  BEER – SPECIFICATION (1 p) M

Prescribes the requirements for beer.

MS 51:2011  FORTIFIED EDIBLE OILS – SPECIFICATION (Third edition) (7 p) M

This standard outlines requirements for refined edible oils derived from oil seeds and oil-bearing fruits. These oils are suitable for use as cooking oils and salad oils.

MS 52:2000  LIQUID TOILET SOAP – SPECIFICATION (2 p) M

Prescribes the requirements of liquid toilet soap for personal hygiene.

MS 53:2001  CHILLI SAUCE – SPECIFICATION (2 p) M

This Malawi Standards prescribes requirements for chilli sauce. The chilli sauce shall be manufactured from chillies (Capsicum frutescens L) or other small fruits of the genus Capsicum.

MS 55:1990  WHEAT GRAIN – SPECIFICATION (4 p) M

The standard specifies requirements, methods of sampling and analysis for wheat belonging to the species Triticum aestivum and T. durum, which are intended for human consumption.

MS 56:1990  EDIBLE OILS AND FATS – METHODS OF ANALYSIS (8 p) V

Refers to methods of analysis that are applicable to fats and oils which are liquid and which do not deposit stearin at the temperature of determination.

MS 57:1987  PINEAPPLE JUICE – SPECIFICATION (3 p) M

Specifies requirements for pineapple juice.


Prescribes the recommended procedure for the handling, transportation and disposal of solid waste to ensure safety of operatives, passers-by, animals and the environment.
MS 60:1989  SOAPS – METHODS OF ANALYSIS (17 p) V
Describes the methods of test for soaps and detergents

MS 62:1994  SOLAR WATER HEATERS – SPECIFICATION (13 p) M
Specifies construction and performance requirements of solar water heaters.

MS 63:1987  VEGETABLE GHEE – SPECIFICATION (1 p) M
Applies to vegetable ghee which has been fully processed and made fit for human consumption

MS 64:1987  MIXED ANIMAL AND VEGETABLE GHEE – SPECIFICATION (1 p) M
Applies to any product described as mixed animal and vegetable ghee, fully processed and made fit for human consumption.

MS 65:2003  SOAP POWDER OR CHIPS – SPECIFICATION (5 p) M
This specification covers four types of soap for use in laundries. It does not cover non-soapy detergents

MS 66:2003  ANTIBACTERIAL LIQUID TOILET SOAP – SPECIFICATION (6 p) M
This specification covers two types of Antibacterial liquid toilet soap for medical use that are suitable for use in liquid dispensers.

MS 70:1987  INDUSTRIAL HEAVY-DUTY LEATHER BOOTS – SPECIFICATION (4 p) M
Applies to men’s industrial heavy-duty boots made of leather uppers with soles made of injection moulded polyvinyl chloride or derived from vulcanized process.

MS 71:2000  CONCRETE BUILDING BLOCKS – SPECIFICATION (7 p) M
Applies to solid, hollow or cellular concrete building blocks including aerated blocks.

MS 72:1995  FOOTWEAR AND FOOTWEAR MATERIALS – METHODS OF TEST (First edition) (32p) V
This Malawi Standard covers methods of test for leather and leather products.

This Malawi standard specifies the quality requirements of raw, normal cow milk.

MS 74:2014  PASTEURIZED COW’S MILK –SPECIFICATION (second ed) 2p M
The standard applies to pasteurized cow’s milk.

MS 75-1:1988  MILK AND MILK PRODUCTS – METHODS OF SAMPLING AND ANALYSIS
Part 1: Chemical Analysis (9 p)V
Prescribes the methods of sampling and chemical analysis for milk and milk products.

MS 75-2:1998  MILK AND MILK PRODUCTS
Part 2: Microbiological Examination (9 p)V
Prescribes the methods of sampling and microbiological analysis of milk and milk products
MS 76:2014  AGRICULTURAL HAND HOE–SPECIFICATION (second edition) 5p
This Malawi Standard specifies materials and other requirements for the agricultural hand hoe.

MS 77:1988  GROUNDNUT OIL – SPECIFICATION (2 p) M
Specifies requirements for semi-refined and refined edible groundnut oil.

MS 78:1988  Refined Sunflower Oil – SPECIFICATION (1 p) M
Specifies requirements for edible sunflower oil.

MS 79:1988  Refined Cotton Seed Oil – SPECIFICATION (3 p) M
Specifies requirements for edible cottonseed oil.

MS 80:1988  RAPSEED OIL – SPECIFICATION (2 p) M
Applies to finally refined edible low erucic acid rapeseed oil suitable for human consumption.

MS 84:1991  WAX FLOOR POLISH – SPECIFICATION (5 p) M
Applies to solvent based and emulsion type, both liquid and paste form wax polishes suitable for use on furniture and floors

MS 85-1:2013  LIMES FOR USE IN BUILDING – SPECIFICATION second ed.
Part 1: Hydrated lime (3 p) M
This part of MS 85 covers specification for hydrated limes for use in building.

MS 88:1986  SOLVENT CEMENT FOR ASSEMBLY OF UPVC PIPE FITTINGS – SPECIFICATION (13 p) M
Specifies the requirements for solvent cement, supplied in cans, for joining unplasticized polyvinyl chloride pressure pipes complying with the requirements of MS 4:1993.

Covers the handling, storage and disposal of pesticides and their containers used in commercial, industrial and public health pest control operations.

MS 90:1988  HIGH-PROTEIN BABY FOOD – SPECIFICATION (1 p) M
Prescribes the requirements for high-protein baby food.

MS 91:1986  LIMES FOR WATER TREATMENT – SPECIFICATION (5 p) M
Lays down requirements for hydrated limes intended for treatment of water.

MS 92:2013  LIMES – METHODS OF TEST (8 p) V sec ed
Covers methods of test for the determination of the following properties of lime, calcium oxide content, magnesium oxide content, carbon dioxide content, loss on ignition, insoluble matter including silicon dioxide, residue on slaking of quicklime, fineness of hydrated lime powder, soundness of building lime using Le Chatelier methods of measuring its expansion and pat soundness of hydrated lime for use in building.
MS 93:1986  **HIGH PROTEIN BABY FOOD – METHODS OF ANALYSIS (15 p)**

Describes the methods of test for the high protein baby foods.

MS 94:1988  **INDUSTRIAL AND SAFETY RUBBER BOOTS – SPECIFICATION (22 p)**

Prescribes the requirements and methods of test of industrial and safety rubber boots of knee height for men and women.

MS 96:2014  **CHILLIES AND CAPSICUMS, WHOLE OR GROUND (POWDERED) – SPECIFICATION (6 p)**

*Second edition*

Specifies requirements for chillies and capsicums in whole or ground (powdered) form.

MS 97:2013  **CURRY POWDER – SPECIFICATION (11 p)**

*Second edition*

Specifies minimum requirements for curry powder which is used as a flavouring ingredient in the preparation of foods.

MS 99-2:1995  **PACKAGING SACKS – VOCABULARY**

*Part 2 - Sacks made from thermoplastic flexible film (10 p)*

This part defines terms commonly used in plastic sack manufacture. It refers to single ply and multi-ply sacks made from thermoplastic flexible film; it does not refer to bags for the retail trade.

MS 100:1995  **SACKS, PACKAGING – DESCRIPTION AND METHOD OF MEASUREMENT**

*Part 1: Empty paper sacks (10 p)*

This part of MS 100 fixes the description and the dimensional designation of empty paper sacks and specifies the method of measuring those dimensions.

MS 101:1995  **FREIGHT CONTAINERS – TERMINOLOGY (15 p)**

This standard presents definitions of terms relating to freight containers.

MS 102:1995  **FREIGHT CONTAINERS (SERIES I): CLASSIFICATION, DIMENSIONS AND RATING – SPECIFICATION (7 p)**

Establishes a classification of series 1 freight containers based on external dimensions, and specifies the associated ratings, and, where appropriate, the minimum internal and door opening dimensions for certain types of containers.

MS 103:1993  **PACKAGING – PICTORIAL MARKING FOR HANDLING OF GOODS (6 p)**

Specifies a set of symbols conventionally used for marking of transport packages to convey handling instructions.

MS 105:1995  **TRANSPORT PACKAGES, DIMENSION OF RIGID RECTANGULAR PACKAGES – SPECIFICATION (3 p)**

The standard sets a series of dimensions for rigid rectangular transport packages, based on the standard plan dimension (module) of 600 mm x 400 mm (23.62 in x 15.5 in)
MS 106:2005  WELDING HELMETS SHIELDS, GOGGLES AND WELDING SPECTACLES – SPECIFICATION (8 p) M

The standard specifies the requirements for the materials, design and manufacture of welding helmets, hand shields, goggles and welding spectacles that are intended to be used with protective filters, filter covers and backing lenses that comply with the appropriate transmittance requirements. The standard does not cover eye protection devices for use in welding with lasers.

MS 107:1988  ALCOHOLIC BEVERAGES – METHODS OF TEST (16 p) V

Specifies methods of test for alcoholic beverages.


This standard specifies requirements for refine petroleum jelly (petrolatum) in two colour grades (white and yellow), which is intended for use in pharmaceutical and cosmetic applications.


Specifies requirements for fashion shoes made of polyvinyl chloride compound using the injection-moulded principle.


Specifies the material and dimensions of both upset and straight shares (see Figure 1 and Figure) used in animal drawn ploughs.

MS 111:1988  DAIRY FARMING – CODE OF HYGIENIC CONDITIONS FOR MILKING (3 p) M

Prescribes guidelines to be followed by dairy farmers in the milking, handling and transportation of raw milk to selling points.

MS 112:1987  TOOTHPASTE – SPECIFICATION (9 p) M

Covers the requirements for toothpastes (fluoridated and non-fluoridated) intended for use with a brush in cleaning of natural teeth.

MS 113:2011  PETROLEUM INDUSTRY - ABOVE-GROUND NON-PRESSURISED HORIZONTAL CYLINDRICAL STORAGE TANKS FOR PETROLEUM INDUSTRY – SPECIFICATION (11p) M

This Malawi standard specifies the requirements for the manufacture and testing of non-pressurised horizontal cylindrical steel storage tanks for petroleum products.


This Malawian Standard specifies the requirements for the manufacture and testing of non-pressurised horizontal cylindrical flat or dished ended underground steel storage tanks and their fittings for the storage of petroleum products.

MS 115:2002  FROZEN FISH – SPECIFICATION (3 P) M

Outlines requirements for fresh, whole fish that is frozen and glazed.
MS 116:2002  SALTED FISH – SPECIFICATION (3 p) M

Specifies requirements for all species of fish, which are wet salted, sold while fresh or dry.

MS 117:2002  SMOKED FISH – SPECIFICATION (3 p) M

Specifies requirements for smoked fish and fishery products.

MS 118:2007  CANNED FISH, CANNED FISH PRODUCTS AND CANNED MARINE MOLLUSCS – SPECIFICATION (SADC HARMONIZED) (20p) M

Covers the requirements for the manufacture, production, processing, or treatment and methods of tests for canned fish, canned fish products, and canned molluscs and their methods of tests.

MS 119:2004  SMALL INCINERATORS – SPECIFICATION (8 p) M

This standard specifies requirements for a range of incinerators using fuel gases or electricity. The range of sizes included is based upon the number of test samples which can be destroyed. In general, these appliances are suitable for the destruction of combustible materials such as sanitary towels, bandages, dressings and paper.

MS 120:1988  GENERAL REQUIREMENTS FOR PESTICIDES – SPECIFICATION (10 p) M

Covers the general requirements for pesticides.

MS 123:1998  INDUSTRIAL AND SAFETY POLY (VINYL CHLORIDE) BOOTS – SPECIFICATION (11 p) M

Specifies requirements for boots moulded from poly (vinyl chloride) compounds, for general industrial use. The boots may be either fabric-lined or unlined and any style from ankle boots to full thigh height inclusive.

MS 125:1987  CHEMICAL LABORATORIES – CODE OF SAFETY (19 p) M

Outlines a code of safety in chemical laboratories.

MS 131:2013  TEXTILES – STANDARD ATMOSPHERES FOR CONDITIONING AND TESTING (5p) V

This Malawi Standard defines the characteristics and use of a standard atmosphere for conditioning, for determining the physical and mechanical properties of textiles and a standard alternative atmosphere that may be used if agreed between parties.


Specifies a method for the designation of netting yarns for fishing nets by the use of the nominal linear densities of the single yarn components or, of their resultant linear density, expressed in text.

MS 134:1991  TEXTILES – WOVEN FABRIC DESCRIPTIONS (2p) V

Gives a number of characteristic parameters for woven fabrics and their constituents at various stages of manufacture and processing for the purpose of fabric designation. It is applicable to all woven fabrics except textile floor coverings.
MS 137:1991 FISHING NETS, HANGING OF NETTING – BASIC TERMS AND DEFINITIONS (2p) V

Gives the principle terms relating to the hanging of netting for fishing nets, together with their definitions.

MS 139:2013: SPICES AND CONDIMENTS DETERMINATION OF VOLATILE OIL CONTENT (HYDRODISTILLATION METHOD) (4p) V

This Malawi Standard specifies a general procedure for visual examination, or with not exceeding 10 times, of whole spices for determination of macro extraneous and foreign.

MS 140:1987 SPICES AND CONDIMENTS – METHODS OF SAMPLING (5p) V

Specifies methods of sampling for spices and condiments

MS 141:2013 SPICES AND CONDIMENTS - DETERMINATION OF TOTAL ASH (Second Edition) (4p) V

Specifies methods for the determination of total ash from spices and condiments

MS 142:2013 SPICES AND CONDIMENTS-DETERMINATION OF FILTH (7p) V

This Malawi Standard specifies a method for the quantitative determination of filth in spices and condiments. As no limit have been prescribed for filth in standard on spices and condiments, this method should be used for collecting more data and for settling disputes.

MS 144:2007 AGRICULTURAL FOOD PRODUCTS – DETERMINATION OF CRUDE FIBRE CONTENT GENERAL METHOD (8p) V

Specifies a conventional method for the determination of the crude fiber content of agricultural food products

MS 145:1987 CEREALS AND PULSES – METHODS OF SAMPLING AS MILLED PRODUCTS (9p) V

Specifies general conditions relating to sampling for the assessment of the quality and condition of milled products from cereals or pulses intended for human or animal consumption, in powder, particulate or agglomerated form.

MS 146:1988 CEREALS – METHODS OF SAMPLING AS GRAIN (9p) V

Specifies general conditions relating to the sampling for assessment of quality of cereal grains. It does not apply to seed grains

MS 148:1987 CEREALS AND CEREAL PRODUCTS – DETERMINATION OF FAT CONTENT (3p) V

Specifies a method for the determination of the total fat content of cereals and cereal products intended for human consumption, including baked products and pasta.

MS 149:1988 CEREALS, PULSES AND DERIVED PRODUCTS - DETERMINATION OF ASH CONTENT (5p) V

This Malawi standard specifies two methods for the determination of ash yielded by cereals, pulses and derived products.
MS 150-1:2015 WHEAT AND WHEAT FLOUR-GLUTEN CONTENT PART 1: DETERMINATION OF WET GLUTEN CONTENT BY MANUAL METHOD (8P) M

This part of MS 150 specifies a manual washing out method for the determination of the wet gluten content of wheat flour (Triticum aestivum L and Triticum durum Desf). This method is directly applicable to flour. It is also applicable to semolina and wheat after grinding, if their particles size distribution meets the specification given in Table B1.

MS 150-2:2015 WHEAT AND WHEAT FLOUR-GLUTEN CONTENT (10p) M

Part 2: Determination of wet gluten content by mechanical means

This part of MS 150 specifies a method for the determination of the wet gluten content of wheat flour (Triticum aestivum L. and Triticum durum Desf) by mechanical means. This method is directly applicable to flour. It is also applicable to semolina and wheat after grinding, if their particle size distribution meets the specification given in Table B1.

MS 150-3:2015 WHEAT AND WHEAT FLOUR–GLUTEN CONTENT (5p) M

Part 3: Determination of dry gluten from wet gluten by an oven drying method

This part of MS 150 specifies a rapid method for the determination of the dry gluten content from wet gluten obtained as specified in either MS 150-1 or MS 150-2. This method can also be used to determine the moisture content of the wet gluten.

MS 150-4:2015 WHEAT AND WHEAT FLOUR-GLUTEN CONTENT (5p) M

Part 4: Determination of dry gluten from wet gluten by a rapid drying method

This part of MS 150 specifies a rapid method for the determination of the dry gluten content from wet gluten obtained as specified in either MS 150-1 or MS 150-2. In this method, dry gluten is obtained from wet gluten by dry oven. This method can also be used to determine the moisture content of the wet gluten.

MS 151:1988 CEREALS AND CEREAL PRODUCTS – DETERMINATION OF ALPHA-AMYLASE ACTIVITY - COLORIMETRIC METHOD (8 p) V

Specifies a colorimetric method for the determination of alpha-amylase activity of cereal products, ranging from very low to very high in alpha-amylase activity. The method may also be used for estimating the alpha-amylase activity of additives of fungal and bacterial origin.

MS 152:1988 TURMERIC, WHOLE OR GROUND – SPECIFICATION (3 p) M

Specifies requirements for turmeric (Curcuma longa Linnaeus), whole or ground (powdered).


Specifies requirements for coriander (Coriandrum sativum L.) in the whole and ground (powdered) forms.

MS 154:1988 Refined Soya Bean Oil – Specification (2 p) M

Specifies requirements for fully refined edible soya bean oil.
MS 155:2000 SOLID FUEL COOK STOVE – TYPE II – SPECIFICATION (3 p) V

Specifies the requirements for the solid fuel cook stoves with a pottery liner intended for cooking.

MS 156:1995 IRONS, SOLIDFUEL PRESSING – SPECIFICATION (6 p) M

Lays down the specifications for portable pressing irons for ironing textile materials using charcoal or coal as fuel.

MS 157:1995 COOKSTOVE, LIQUID FUEL NON PRESSURE – SPECIFICATION (8 p) M

Specifies requirements for materials and performance of Liquid fuel non pressure cook stoves which use paraffin as fuel.

MS 158:1995 COOKSTOVE, SOLID FUEL (TYPE 1) – SPECIFICATION (8 p) M

Specifies requirements for solid fuel cook stove, which incorporates one or more ovens and has a cooking surface which includes at least one simmering area of sufficient size to accommodate the number of utensils required and operates with minimum smoke emission.

MS 159:1996 COOLER BLOCKS – SPECIFICATION (4 p) M

Lays down requirements for raw materials, manufacture, dimensions, strength and other physical properties of cooler blocks.

MS 161:1988 CEMENT ROOFING PRODUCTS – SPECIFICATION (7 p) M

Lays down the requirements for raw materials, manufacture, dimensions of cement roofing tiles, sheets and fittings.

MS 164:2013 ASPARAGUS –SPECIFICATION (7p) M

This Malawi Standard applies to shoots of commercial varieties of asparagus grown from Asparagus officinalis L of the Liliaceae family, to be supplied fresh to the consumer, after preparation and packaging. It covers green and violet asparagus of more than 3mm diameter and white and violet asparagus of more than 8mm diameter, packed in uniform bundles or units packages. Asparagus for industrial processing is excluded.

MS 167:1988 FERTILIZERS AND SOIL CONDITIONERS – VOCABULARY (6 p) V

Defines terms relating to fertilizers and soil conditioners.

MS 169:1993 SAMPLING OF CHEMICAL PRODUCTS FOR INDUSTRIAL USE – SAFETY IN SAMPLING (11 p)M

The standard gives recommendations relating to safety in the sampling of chemical products for industrial use.

MS 170:2012 UNLEADED PETROL (THIRD EDITION) – SPECIFICATION (10 p) M

Specifies the requirements for unleaded petrol retailed in the country for use as fuel in petrol engine vehicles.

This part of MS 172 covers the layout and design of petroleum bulk depots, and the installation of equipment of the types normally used for the handling, storage and distribution of petroleum products and their derivatives, other than equipment that is used for storage and dispensing on consumer premises (including service stations) and for relevant standards exist.

MS 172-2:2011 THE PETROLEUM INDUSTRY PART 2: ELECTRICAL AND OTHER INSTALLATIONS IN THE DISTRIBUTION AND MARKETING SECTOR (38P) M

This part of MS 172 covers the recommended safe practices in the design, construction, installation and maintenance of electrical, earthing and systems intended to be used in flammable and combustible liquid storage, pumping, distribution and marketing facilities. It is not intended that this standard should apply to refineries or explorations facilities, unless any of these installations are similar to facilities listed above.


This code of practice covers provisions for the installation of underground storage tanks of individual capacity not exceeding 85 000 litres, pumps /dispensers and pipe work at service stations and consumer installations.

MS 173:2005 ACOUSTICS – NOISE POLLUTION – TOLERANCE LIMITS (2 p) M

This Malawi standard prescribes maximum allowable noise limits in industrial, commercial, residential and silence zone areas. It also lays down sound level requirements for indoors of non-industrial buildings.

MS 174:1995 RULERS FOR GENERAL PURPOSE – SPECIFICATION (8 p) M

Prescribes the requirements for rigid and foldable rulers made of wood, plastic or metallic materials, intended for general purposes. It covers end as well as edge measuring scales.

MS 175:1987 BURNT CLAY BRICKS – CODE OF PRACTICE FOR MOULDING AND FIRING (9 p) M

Lays down the procedures to be followed in the selection of raw materials, moulding and firing of hand-made burnt clay bricks.

MS 176:1988 JAMS, JELLIES AND MARMALADES – SPECIFICATION (3 p) M

Specifies the requirements for jams, jellies and marmalades

MS 177:1988 FRUIT SQUASHES – SPECIFICATION (2 p) M

Specifies the requirements for fruit squashes

MS 178:1988 COUNTRY WINES – SPECIFICATION (3 p) M

Specifies requirements for country wines.

MS 179:2010 RICE – SPECIFICATION (SECOND EDITION) (15 p) M

This Malawi Standard specifies the requirements for rice (Oryza sativa L.). It is applicable to husked rice and milled rice, parboiled or not, intended for direct human consumption. It does not apply to other products derived from rice or to glutinous rice.
MS 180:1988  LEAD-ACID STARTER BATTERIES – SPECIFICATION (8 p) M

Specifies requirements for materials, design, construction and testing of lead-acid starter batteries with a rated voltage of 6 or 12 volts supplied in the wet-charged or dry charged condition for starting lighting and ignition services in automobiles.

MS 181:1988  LEAD-ACID STARTER BATTERIES – METHODS OF TEST (6 p) V

Covers methods of test for lead-acid starter batteries.

MS 183:1988  AXES AND HATCHETS – SPECIFICATION (8 p) M

 Specifies the requirements on materials, dimensions, mass and performance for axes and hatchets.

MS 185:1995  COOKSTOVE, LIQUID FUEL NON-PRESSURE – METHODS OF TEST (4 p) V

Covers methods of test for liquid fuel non-pressure cook stoves which use paraffin as the fuel.

MS 186:1988  BALLPOINT PENS – SPECIFICATION (11 p) M

Specifies the requirements for single-cartridge ballpoint pens, replacement refills and direct-fill ballpoint pens, which have black, blue, green or red ink.

MS 187:1999  SCHOOL CHALK – SPECIFICATION (3 p) M

Prescribes the requirements, methods of sampling and test for white and coloured chalks made from gypsum, calcium sulphate hemihydrate (CaSO₄·½H₂O), intended for writing on chalkboards. It does not apply to calcium carbonate type of chalks.

MS 188:2008  EDIBLE SALT – SPECIFICATION (SECOND EDITION) (23 p) M

This standard specifies the requirements and methods of test for edible salt meant for human and livestock consumption. It applies to salt used as an ingredient of food, both for direct sale to the consumer and for food manufacture. It applies also to salt used as a carrier of food additives and/or nutrients.

MS 189:2009  CHEESE – SPECIFICATION (5p) M

This Malawi standard applies to cheese, intended for direct consumption or further processing. Subject to the provisions of this standard, standards for individual varieties of cheese, or groups of varieties of cheese, may contain provisions which are more specific than those in this standard and in these cases, those specific provisions shall apply.

MS 190:1994  CHEESE – METHODS FOR CHEMICAL ANALYSIS (14 p) V

Provides methods for the analysis of cheese and processed cheese made from milk with the addition of emulsifying salts only.


Part 1: Yoghurt and sweetened yoghurt

This standard prescribes requirements for yoghurt.
MS 192:2009  BUTTER – SPECIFICATION (2p) M

This Malawi standard specifies requirements and methods of sampling and test for butter intended for direct consumption or for further processing.

MS 193:1988  DAIRY CREAM FOR DIRECT CONSUMPTION – SPECIFICATION (3p) M

Applies to dairy cream which has been pasteurized, sterilized or ultra-heat treated.

MS 194:2009  DAIRY ICES AND DAIRY ICE CREAM – SPECIFICATION (3p) M

This Malawi standard specifies the requirements, methods of sampling and test for dairy ices and dairy ice cream.

MS 195:1991  FRESH GREEN BEANS – SPECIFICATION (3p) M

Prescribes requirements for fresh green beans from Phaseolus vulgaris L commonly known as French beans.

MS 196:1989  MILK – DETERMINATION OF TITRATABLE ACIDITY 2p) V

Describes a method for determination of titratable acidity in milk.

MS 197:1988  MILK – DETERMINATION OF FREEZING POINT (4p) V

Describes a method for the determination of freezing point of milk.

MS 198:1993  CREAM – DETERMINATION OF FAT CONTENT (3p)V

The standard describes a reference method for the determination of fat content of cream.


Part 1: Pork and beef sausages

This Malawi Standard specifies requirements, method of sampling and tests for pork and beef sausages.

MS 199-2:2014 SAUSAGES-SPECIFICATION PART2: CHICKEN SAUSAGES (7p) M

Part 2: Chicken sausages

This Malawi Standard specifies requirements, methods of sampling and test for chicken sausages.


Prescribes the procedures for transportation and handling of slaughter animals and for the ante-mortem and post-mortem inspection of meat and meat products.

Prescribes the essential requirements and methods of sampling and tests for biscuits, baked from dough containing essential ingredients in 4.11 without the addition of optional ingredients in 4.1.2.


This standard prescribes the requirements for white sugar derived from sugarcane or beet root intended for human consumption without further processing. The fortification in Clause 6 apply to sugars sold directly to the final consumer, and are optional to sugars used as ingredients in other foodstuffs.

MS 205:2016 ICING SUGAR SPECIFICATION (4p) M

This Malawi standard prescribes the requirements and the methods of test and sampling for icing sugar which is sometimes referred to as powdered sugar.

MS 206:1989 MEAT GRADING – CODE OF PRACTICE (9 p) M

Classifies cattle, sheep, goats and pigs and prescribes requirements for grading meat derived from cattle sheep, goat and pigs.

MS 207:1989 TEA SACKS – SPECIFICATION (10 p) M

Specifies the materials, construction and dimensions of sacks for the palletized and containerized transport of tea.

MS 208:2014 OPAQUE BEER SPECIFICATION (second ed) (3 p) M

This Malawi standard specifies requirements and methods of tests and sampling for opaque beer.


This standard prescribes the requirements for fortified raw sugar derived from sugarcane or beet root intended for human consumption without further processing. The fortification in Clause 6 apply to sugars sold directly to the final consumer, and are optional to sugars used as ingredients in other foodstuffs.

MS 210:1990 SPIRITS – SPECIFICATION (2 p) M

Specifies requirements for spirits intended for use as beverages.

MS 211:2013 LIQUIED CARBON –DIOXIDE INDUSTRIAL –SPECIFICATION (19p)

This Malawi Standard specifies two types of carbon dioxide for industrial use. Type 1 is suitable for industrial non-food application, e.g. purging, inerting, life inflation. Type 2 is higher quality grade which is also suitable for industrial food application, e.g. beverages, gas packing, food freezing and chilling.

MS 212:2014 POULTRY FEEDS – SPECIFICATION (14 p) M sec ed

Specifies requirements for the following types of poultry feeds. chicken feeds, ducks feeds, turkey feeds.
MS 213:1990  GROUNDNUTS – SPECIFICATION (6 p) M

Specifies requirements for groundnuts (Arachis hypogaea - Linnaeus) also known as peanuts or monkey nuts or earthnuts in the shell or kernel for direct human consumption. It does not apply to processed groundnuts.

MS 214:2013  DRINKING WATER – SPECIFICATION (second edition) (9 p) M

This standard specifies the physical, biological, organoleptic and chemical requirements for treated drinking tap water. It does not apply to borehole water, bottled water and natural mineral water.

MS 218:1990  POLYURETHANE FOAM CORES – SPECIFICATION (3 p) M

Covers the requirements and methods of sampling for interior foam cores consisting of flexible polyurethane foam for use in mattresses, furniture and other similar uses.

MS 221:1994  BLACK LEAD PENCIL – SPECIFICATION (9 p) M

Specifies the requirements for black lead pencils for general writing purposes in grades HB and 2B.

MS 223:1990  POLYURETHANE FOAMS – METHODS OF TEST (12 p) V

Prescribes methods of test for flexible polyurethane foams.

MS 224:1990  PASTA PRODUCTS – SPECIFICATION (6 p) M

Prescribes the requirements, methods of sampling and test for pasta products.

MS 225:2013  FAT SPREADS AND BLENDED SPREADS – SPECIFICATION (5p) M

This Malawi Standard applies to fat products containing at least 10% and more than 90% fat, intended primarily for use as spreads. However, this standard does not apply to fat spreads derived exclusively from milk and/or milk products to which only other substances necessary for their manufacture have been added. It only includes margarine and products used for similar purposes and exclude products used for similar purposes and exclude products with a fat content of less than two thirds of the dry matter (excluding salt). Butter and dairy spreads are not covered by this standard.

MS 226:1990  GARLIC – SPECIFICATION (5 p) M

Prescribes requirements for garlic (Allium sativum L).

MS 227:1990  SUGAR CONFECTIONERY – SPECIFICATION (19 p) M

Specifies the requirements and methods of sampling and test for high boiled sweets and low boiled toffees and caramels.

MS 228:2014  RAW MACADAMIA KERNELS – SPECIFICATION Second ed (6 p) M

This Malawi standard specifies requirements for shelled macadamia kernels of varieties grown from Macadamia tetraphylla, macadamia ternifolia and integrifolia and/or their hybrids intended for direct consumption or for food when intended to be mixed with other products for direct consumption without further processing. The standard does not apply to macadamia kernels that are processed by salting, sugaring, flavouring or roasting, or for industrial processing.
MS 229:2014 CEREAL-BASED BREAKFAST FOOD PRODUCTS–SPECIFICATION (11p)

Part 1: Flaked, puffed or pulverized (ready-to-eat) M

This Malawi Standard prescribes the requirements and methods of test for flaked, puffed or pulverized cereal-based breakfast food products, which are ready-to-eat and are suitable for all in-family consumption.

MS 230:1990 TOMATOES – SPECIFICATION (3 p) M

Prescribes the requirements for tomatoes *Lycopersicon esculentum* Mill

MS 231:1990 FRESH PINEAPPLES – SPECIFICATION (2 p) M

Specifies the requirements for fresh pineapples (*Ananas comosus* L). Also stipulates requirements for handling, grading, packing and marking.

MS 232:1990 CHEWING GUM AND BUBBLE GUM – SPECIFICATION (3 p) M

Prescribes requirements and methods of test for chewing gum and bubble gums

MS 234:1993 BUN – SPECIFICATION (6 p) M

Specifies the requirements and methods of test and sampling for bun.

MS 236-1:2011 CODE OF PRACTICE FOR HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATIONS (61p) M

Part 1: installations involving gas storage containers of individual water capacity not exceeding 500 litres and a combined water capacity not exceeding 3000 litres per installation

This part of MS 236 specifies requirements for the materials, the methods of construction and the installation of equipment used in the liquefied petroleum gas applications for domestic and commercial installations that involve gas storage containers of individual water capacity not exceeding 500 litres and of a combined water capacity not exceeding 3000 litres.

MS 236-3:2011 CODE OF PRACTICE FOR HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATIONS (38P) M

Part 3: installations involving storage vessels of individual water capacity exceeding 500 litres

This part of MS 236 specifies requirements for the layout, design and installation of butane, propane and liquefied petroleum gas equipment, and of storage vessels of individual water capacity exceeding 500 litres and associated vaporizers, pipework and fittings up to the outlet of the first pressure reduction stage in the line
MS 236-4:2011 CODE OF PRACTICE FOR HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATIONS (14 P) M

Part 4: transportation in bulk by road

This part of MS 236 contains recommendations for the design, construction, inspection, fittings and filling ratio of tanks used in the transportation of LPG in bulk by road, the design of vehicles and equipment, and operating practice.

MS 236-6:2011 CODE OF PRACTICE FOR HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATIONS. (37P) M

Part 6: The application of liquefied petroleum and compressed natural gas as engine fuels for internal combustion engines

This part of MS 236 covers the safe use of liquefied petroleum gas and compressed natural gas as fuels for internal combustion engines and for the safe operation of equipment manufactured for conversions.

MS 236-7:2011 CODE OF PRACTICE FOR HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATIONS. M

Part 7: storage and filling premises for refillable containers of gas capacity not exceeding 9 kg and the storage of individual gas containers exceeding 48kg (24p)

This part of MS 236 specifies the minimum requirements for the location and installation of, and operations at, filling premises for the filling of liquefied petroleum gas (LPG) container of gas capacity not exceeding 9 kg, including the storage of individual gas containers not exceeding 48 kg. It identifies safe methods of filing and storing refillable containers and makes recommendations towards safe working procedures that cover all aspects of the storage containers.

MS 236-8:2011 CODE OF PRACTICE FOR THE HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL AND INDUSTRIAL INSTALLATION (8P) M

Part 8: the fuelling of fork lift trucks and other LP gas operated vehicles (8p)

This code of practice covers recommendations for the equipment used in filling LP gas containers on fork lift trucks and other LP gas operated vehicles from fixed storage, and for the siting and maintenance of the equipment. It also covers safety pre-cautions and fuelling procedure and is intended to supplement MS 236: Part 6.

MS 236-10:2011 CODE OF PRACTICE FOR THE HANDLING, STORAGE, DISTRIBUTION AND MAINTENANCE OF LIQUEFIED PETROLEUM GAS (LPG) IN DOMESTIC, COMMERCIAL, AND INDUSTRIAL INSTALLATION

Part 10: mobile filling stations for refillable LPG containers of capacity not exceeding 9 kg (4p) M

This part of MS 236 gives recommendations in respect of the location and operation of mobile filling stations suitable for filling of refillable liquefied petroleum gas containers.
MS 237:2008  FOOD ADDITIVES - GENERAL STANDARD (250p) M

Only the food additives listed herein are recognized as suitable for use in foods in conformance with the provision of this standard. Only food additives that have been assigned and Acceptable Daily Intake (ADI) or determined, on the basis of other criteria, to be safe by the Joint FAO/WHO Expert Committee on Food Additives (JECFA) and an International Numbering System (NIS) designation by Codex will be considered for inclusion in this standard. The use of additives in conformance with this standard is considered to be technologically justified.

MS 240:1995  PIG FEED – SPECIFICATION (8 p) M

Prescribes the requirements and methods of sampling and test for pig feed.

MS 242:1991  COW PEAS – SPECIFICATION (4 p) M

Specifies requirements for shelled dry cow peas, Vigna unguiculata, suitable for human consumption.

MS 243:1991  DRY GARDEN PEAS – SPECIFICATION (4 p) M

Specifies requirements for dry garden peas, Pisum sativum (locally known as nsawawa) and are intended for human consumption.

MS 244:1991  SOYA BEANS – SPECIFICATION (5 p) M

Specifies requirements for shelled dry soya beans, Glycine max L. (Merill), suitable for human consumption.

MS 245:1991  BEAN – SPECIFICATION (3 p) M

Specifies requirements for shelled beans, Phaseolus vulgaris L. suitable for human consumption.

MS 246:1990  GINGER-WHOLE, IN PIECES OR GROUND – SPECIFICATION (6 p) M

Specifies requirements and methods of test for ginger Zingiber officinale, (Roscoe), whole, in pieces or ground.

MS 248:1991  ORANGE JUICE – SPECIFICATION (4 p) M

Specifies requirements for orange juice obtained from oranges (Citrus sinensis (L) Osbeck)

MS 249:2012  FERTILIZERS - MARKING, PRESENTATIONS AND DECLARATIONS. (4 p) V

This Malawi Standard specifies the procedure for marking containers or labels for fertilizers, where national legislation permits. It is applicable to all fertilizers in containers and is designed to make easy compliance of the fertilizer industry with MS 722.

MS 250:1991  LAUNDRY SOAP – SPECIFICATION (8 p) M

Prescribes requirements and methods of sampling and test for laundry soaps.

MS 251:2002  SAFETY WOOD MATCHES – SPECIFICATION (4 p) M

Specifies functional requirements for safety wood matches in boxes. It defines the performance characteristics of the splints, matches head composition, match box and friction surface.
MS 252:2002 SAFETY WOOD MATCHES – METHODS OF TEST (6 p) V

Describes the methods of test for safety wood matches in boxes. It does not cover book matches.

MS 253:2002 SYNTHETIC DETERGENT POWDERS FOR HOUSEHOLD USE – SPECIFICATION (2 p) M

The standard specifies requirements for synthetic detergent powders for household use based predominantly on the use of alkyl aryl sulphonates. It does not cover synthetic powders for use with washing machines.

MS 254:2003 SYNTHETIC DETERGENT POWDERS FOR HOUSEHOLD USE – METHODS OF TEST (5 p) V

This Malawi Standard specifies the requirements for methods of tests for synthetic detergent powders for household use.

MS 255:1998 COMPOUND FERTILIZERS – SPECIFICATION (7 p) M

Specifies requirements, sampling and tests methods for compound fertilizers.

MS 258:2000 FERTILIZERS – AMMONIUM SULPHATE – SPECIFICATION (5 p) M

This Malawi Standard specifies requirements and methods of test for ammonium sulphate fertilizers, also known as sulphate of ammonia.

MS 263:1991 TARPAULINS – SPECIFICATION (5 p) M

Specifies requirements for the materials, manufacture and proofing of tarpaulins that have been treated and/or coated to induce water resistance and for resistance.

MS 264:1991 LOOMSTATE COTTON DUCK – SPECIFICATION (13 p) M

Covers twelve qualities of plain woven cotton fabric in the loomstate suitable for tents, tarpaulins and equipage. The fabric may be suitably processed, as required.

MS 265:1991 BAGGED FERTILIZERS, HANDLING AND STORAGE – CODE OF PRACTICE (3 p) M

Lays down recommended practices to be followed for storage of fertilizers packed in suitable bags.

MS 267:2004 CALCIUM CARBONATE (PRECIPITATED) FOR COSMETIC INDUSTRY – SPECIFICATION (9 p) M

This standard prescribes the requirements, methods of sampling and tests for precipitated calcium carbonate for the cosmetic industry.

MS 271:2000 FERTILIZERS, SUPERPHOSPHATE – SPECIFICATION (9 p) M

This Malawi standard specifies requirements and methods of test for single superphosphate, double superphosphate and triple superphosphate fertilizers.

MS 272:2000 FERTILIZERS – CALCIUM AMMONIUM NITRATE – SPECIFICATION (7 p) M

This standard specifies requirements and methods of test for Calcium ammonium nitrate fertilizer (CAN)
MS 274:2013 PAINTS AND VARNISHES – STANDARD PANELS FOR TESTING (11p) V

This Malawi Standard specifies several types of standard panel and describes procedures for their preparation prior to painting. These standard panels are for use in general methods of test for paints, varnishes and related products.

MS 275:2013 PAINTS AND VARNISHES – COMPARISON OF CONTRAST RATION (CHIDING POWER) OF PAINTS OF THE SAME TYPE AND COLOUR (3p) V

This Malawi Standard is one of a series dealing with the sampling and testing of paints, varnishes and related products. It should be read in conjunction with ISO 1512, Paints and Varnishes-Sampling, and MS 276, Paints and Varnishes-Examination and preparation of samples for testing.

MS 276:2013 PAINTS AND VARNISHES – DETERMINATION OF SPECIAL GLOSS OF NON-METALLIC FILM AT 20, 60 AND 85 (9p) V

This Malawi Standard specifies a test method for determining the specular gloss of paint films using a reflectometer geometry of 20, 60 or 85. The method is not suitable for the measurement of the gloss of metallic paints.

MS 277:2013 TEXTILES – TESTS FOR COLOUR FASTNESS

Part AO2: Grey scale for assessing change colour (3p) V

This Malawi Standard describes the grey scale for determining changes in colour of textiles in colour fastness tests, and its use. A precise colorimetric specification of the scale is given as a permanent record against which newly prepared working standards that may have changed can be compared.

MS 278:2013 ROAD MARKING PAINT – SPECIFICATION second ed(16 p) M

This Malawi Standard specifies requirements and methods of sampling and test for road marking paint. It covers conventional solvent-borne and water-borne paints suitable for marking traffic-bearing bituminous or concrete road surfaces, and makes provision for white, yellow and other colours.

MS 279:2013 EMULSION ROOF – PAINT-SPECIFICATION (SECOND ED) (11p) M

Covers one type of emulsion paint for use on clean unpainted new galvanized iron.

MS 280:2013 EMULSION PAINTS – SPECIFICATION second ed(12 p) M

This Malawi standard specifies the requirements and methods of sampling and test for four grades of emulsion paint that are based on synthetic polymers dispersed in water phase and that are supplied in a matt, semi-gloss finish, for application over interior plaster or other masonry substrates, as one or more coats of the same grade. Three grades are suitable for both interior and exterior use, and one grade is suitable for interior use only.

MS 282:2013 DECORATIVE HIGH GLOSS ENAMEL PAINTS-SPECIFICATION (SEC ED) (13 p) M

This Malawi standard specifies requirements and methods of sampling and test for two grades of air-drying gloss enamel paints for use on suitably primed and uncoated steel, wood, masonry, hard board, compressed fibre board and similar materials used in construction and finishing of buildings.
MS 283:1991 PAINTS – METHODS OF TEST (26 p) V

This standard prescribes the methods of test for paints.

MS 287:2013 PRIMING PAINTS FOR STEEL–SPECIFICATION (second ed) (9p) M

This Malawi standard specifies requirements and sampling and test for solvent-borne primers in which the reactive pigment is zinc phosphate type or ferric oxide type, free from heavy metals, for use on suitably prepared steel surfaces.

MS 288:2013 PRIMERS FOR WOOD–SPECIFICATION (second ed) (9p) M

This Malawi standard specifies requirements and methods of sampling and test for primers for wood intended for interior and exterior use.

MS 289-1:1991 ANIMAL FEEDS AND FEEDING STUFFS – METHODS OF SAMPLING AND TESTS (12P) V

Part 1: Sampling

This Malawi standard specifies methods of sampling animal feeding stuff, including fish feeds, for quality control for commercial, technical and legal purposes.

MS 289-2:1991 ANIMAL FEEDS AND FEEDING STUFF - METHODS OF SAMPLING (12p) V

Part 2: General Methods

This part of MS 289 prescribes the general methods of testing animal feeds and feeding stuffs.

MS 289-4:1991 ANIMAL FEEDS AND FEEDING STUFFS – METHODS OF TEST – MICROBIOLOGICAL METHOD (5p) V

Part 4: Microbiological Methods

Prescribes the microbiological methods for testing animal feeds and feeding stuffs.

MS 290:1991 HIDES AND SKINS, RAW – GUIDELINES FOR GRADING (7 p) V

Prescribes guidelines for grading of raw hides and skins of cattle, calves, sheep and goats in the fresh or preserved state intended for tanning.

MS 292:1991 MILK AND MILK PRODUCTS – METHODS OF TEST – MICROBIOLOGICAL EXAMINATION (9 p) V

Part 1: Total plate count

Describes a method of testing the total plate count of micro-organisms in unprocessed milk, pasteurized milk, uncultured liquid milk products, ghee and cream.

Part 2: Coliform count

Describes a method of determining the number of coliform bacteria in milk and milk products.

Part 3: Yeasts and moulds

Describes a method of testing the total plate count of micro-organism in unprocessed milk, pasteurized milk, uncultured liquid milk products, cheese, dried milk products, ghee and cream.
Part 4: Swab test

Deals with the test intended for checking sanitization of the surface of containers and equipment with which milk and milk products can come in direct contact.

MS 293:1991 RAW HIDES AND SKINS – TERMINOLOGY OF DEFECTS (6p) V

This standard shall apply to principal terms used to describe the defects most frequently seen on raw hides and skins in the fresh or preserved state and intended for tanning.

MS 294:1991 FRUIT NECTARS – SPECIFICATION (4 p) M

A general standard applying to pulpy and non-pulpy fruit nectars made from fruit of a single species. The standard does not apply to any nectar which is subject to a specific Malawi Standard.

MS 295:1991 LEMON JUICE – SPECIFICATION (2 p) M

Prescribes the requirements for lemon juice intended for direct consumption. The juice shall be obtained from lemons (Citrus limon) Burn.

MS 296:1991 PASSION FRUIT JUICE – SPECIFICATION (4 p) M

Specifies requirements for passion fruit juice obtained from sound and ripe passion fruit (Passiflora edulis), preserved exclusively by physical means.

MS 297:1991 MANGO JUICE – SPECIFICATION (4 p) M

Prescribes the requirements for mango juice obtained from ripe mangoes (Mangifera indica) diluted by the use of syrup and acid preserved exclusively by physical means.

MS 298:2000 GUAVA NECTAR – SPECIFICATION (2 p) M

Prescribes the requirements for guava nectar. The nectar shall be obtained from guavas (Psidium guajavas).

MS 300:2004 GENERAL GUIDELINES FOR ESTABLISHING A HAZARD ANALYSIS CRITICAL CONTROL POINT (HACCP) SYSTEM IN FOOD ESTABLISHMENT – CODE OF PRACTICE (10 p) V

The standard lays down the basic requirements for the implementation of the Hazard Analysis Critical Control Point (HACCP) system in a food establishment to ensure food safety. It also provides general guidance for its practical operation.

MS 302:2008 CONTAMINANTS AND TOXINS IN FOOD (46p) M

This standard contains the main principles and procedures which are used and recommended by the Codex Alimentarius Commission (CAC) in dealing with contaminants and toxins in foods and feeds, and lists the maximum levels of contaminants and natural toxicants in foods and natural toxicants in foods and feed which are recommended by the CAC to be applied to commodities moving in international trade.

MS 303:1991 MINT, DRIED – SPECIFICATION (5 p) M

Specifies the requirements for leaves of dried mint (spear mint) in whole, broken or rubbed form. ‘Dried mint’ includes dehydrated mint ie. artificially dried mint.
MS 304:2014  CINNAMON (SRI LANKAN TYPE, SEYCHELLES TYPE AND MADAGASCAN TYPE), WHOLE OR GROUND (POWDERED) – SPECIFICATION (7 p) M (second ed)

Specifies requirements for whole or ground (powdered) cinnamon of the Sri Lankan type, Madagascar type Seychelles type, which is the tree or shrub Cinnamon Beylanicum Blume.

MS 305:1991  THYME, WHOLE – SPECIFICATION (4 p) M

Specifies requirements for whole thyme (Thymes vulgaris) in processed or semi processed form for purposes of transactions.

MS 306:1991  CELERY SEED, WHOLE – SPECIFICATION (5 p) M

Specifies requirements for whole celery seed (Apium graveculens Linnaeus) for use as a spice.

MS 307:2002  NATURAL LATEX RUBBER CONDOMS – REQUIREMENTS AND TEST METHODS (43 p) M

This Malawi Standard specifies requirements for male condoms from compounded natural rubber latex, supplied to consumers and designed for contraceptive purposes and to assist in the prevention of sexually transmitted diseases.

This Malawi Standard does not contain requirements for tensile properties of condoms. If determination of tensile properties is desired, the test method in Annex J can be used.

MS 308:2002  REUSABLE RUBBER CONTRACEPTIVE DIAPHRAGMS – SPECIFICATION (13 p) M

This Malawi Standard specifies requirements and methods of test for reusable rubber diaphragms (hereafter called diaphragms) supplied in consumer packages for contraceptive use and for protection against sexually transmitted diseases.

This Malawi Standard does not cover other vaginal contraceptives barriers, such as those known cervical caps, vaginal sponges and vaginal sheaths.


Specifies the requirements for dimensions, strength and workmanship of floor and wall tiles made with cement and aggregates. The tiles may be plain or coloured.

MS 310:1991  PROTECTION OF BUILDING AGAINST LIGHTNING – CODE OF PRACTICE (123 p) M

Covers the protection of dwelling homes, farm buildings and small huts by means of conductors and/or masts; the use of metal roofs and gutters as part of the protection; the protection of thatched roofs; recommended materials and dimension of conductors and masts, the various methods of earthing, and the protection of electrical installations and radio and television aerials. Contains 14 drawings of typical examples of protection.

MS 312-1:1991  MEN'S SHOES WITH STUCK-ON OUTER SOLES – SPECIFICATION

Part 1: Flat lasted construction (40 p) M

Covers requirements for materials and construction for men's shoes with stuck-on outer soles, made in accordance with the flat lasted principle.

MS 312-2:1991  MEN'S SHOES WITH STUCK-ON OUTER SOLES – SPECIFICATION

Part 2: California type construction (17 p) M

Covers requirements for materials and construction for men's shoes with stuck-on outer soles made in accordance with California type principle.
MS 312-3:1991 MEN’S SHOES WITH STUCK-ON OUTER SOLES – SPECIFICATION

Part 3: Moccasin type construction (18 p) M

Covers requirements for materials and construction for men's shoes with stuck-on outer soles, made in accordance with moccasin type principle, with or without reinforcing stitching.

MS 313:1991 INFANTS AND CHILDREN’S SHOES (STUCK-ON AND STITCH-DOWN CONSTRUCTIONS) – SPECIFICATION (38 p) M

Covers children's shoes made according to the stuck-on and stitch-down constructions and supplied in one or both of size ranges 105-145 and 150 - 205.

MS 314:1991 FOOTWEAR SIDE UPPER LEATHER – SPECIFICATION (5 p) M

Covers chrome-tanned bovine leather with a corrected grain and smooth finish and intended for use as an upper material for footwear.

MS 315:2003 FABRIC LININGS FOR FOOTWEAR – SPECIFICATION (7 p) M

This specification covers the requirements for 15 types of woven cotton fabric suitable for use as linings for footwear. Three of the types are fabrics combined by adhesive bonding.

MS 316:1991 THREADS FOR FOOTWEAR – SPECIFICATION (8 p) M

Covers cotton linen polyamide and polyamide threads and blended threads that consist of polyamide (or polyester) and cotton suitable for use in the manufacture of footwear.


Specifies requirement for cast iron manhole covers, inspection covers and frames.

MS 318:1991 CAST IRON BRACKETS AND SUPPORTS FOR WASH BASINS AND SINKS – SPECIFICATION (10 p) M

Covers requirements regarding materials construction, workmanship, dimensions, weights and finish of cast iron brackets and supports for wash basins and sinks.

MS 319:2006 STEEL DOOR FRAMES – SPECIFICATION (16p) M

This Malawi Standard covers sizes and general requirements for door frames (with or without fan light frames) fabricated from mild steel sheet, for walk-through doors.

MS 320:2006 WINDOWS AND DOORS MADE FROM ROLLED MILD STEEL SECTIONS – SPECIFICATION (20p) M

This Malawi Standard covers windows, doors, sidelights and fanlights fabricated from rolled mild steel sections, complete with fittings and ancillary components.

MS 321:1991 ZINC-COATED FENCING WIRE (PLAIN AND BARBED) – SPECIFICATION (10 p) M

Specifies the requirements for the dimensions and quality of plain fencing wire and barbed (single strand and double strand) fencing wire made from 3 grades of zinc coated steel wire.
**MS 322:2007** MILD STEEL NAILS – SPECIFICATION (FIRST EDITION) (21) M

This specification covers the requirements for wire and mild steel nails and tacks for general use and eight nails for pneumatic gun nailers.

**MS 324:2012** FERTILIZERS – DETERMINATION OF BULK DENSITY (LOOSE) (3P) V

This standard specifies a method for the determination of the bulk density (loose) of solid fertilizers, except powder fertilizers.

**MS 325:2012** FERTILIZERS - DETERMINATION OF BULK DENSITY (BULK) (6P) V

This standard specifies two methods for the determination of the bulk density (tapped) of solid fertilizers.

- The machine –tapping method
- The hand-tapping method.

**MS 326:2004** INCINERATORS–STANDARD PERFORMANCE REQUIREMENTS FOR INCINERATION PLANT FOR THE DESTRUCTION OF HOSPITAL WASTE – SPECIFICATION (2p) M

This specification specifies the standard performance requirements for incineration plant, assisted by auxiliary fuel if required, suitable for the destruction of hospital waste. It does not cover devices which utilize intensities of combustion exceeding an average heat release rate of 350 kW/m³.

**MS 328:2013** LOCKS, LATCHES, AND ASSOCIATED FURNITURE (DOMESTIC TYPE)-SPECIFICATION (16p)

This specification covers the requirements for the materials, essential dimension, finish, and performance for locks and latches, and the associated lock and furniture.

**MS 329:1991** TEXTILES – TERNARY FIBRE MIXTURES – QUANTITATIVE ANALYSIS (18 p) M

Specifies methods of quantitative analysis of various ternary mixtures of fibres.

**MS 330:1991** SIZE DESIGNATION OF CLOTHES (MEN’S AND BOYS’ OUTERWEAR GARMENTS) (5 p) M

Establishes a system of designating sizes of men’s and boys’ outerwear garments (including knitwear and swimwear) that are classified as, covering the upper or whole body or lower body only.

**MS 331:1991** SIZE DESIGNATION OF CLOTHES (WOMEN’S AND GIRLS’ OUTERWEAR GARMENTS (7 p) M

Establishes a system of designating the sizes of women’s and girls’ outerwear garments (including knitwear and swimwear) that are classified as covering the upper or the whole body, or covering the lower body only.

**MS 332:1991** SIZE DESIGNATION OF CLOTHES (INFANTS’ GARMENTS) (4 p) M

Establishes a system of designating the sizes of infants’ garments. Both the control dimension on which the size designation system is based, and the method of indicating the size designation on garment labels, are laid down.

**MS 333:1991** SIZE DESIGNATION OF CLOTHES (DEFINITIONS AND BODY MEASUREMENT PROCEDURE) (7 p) M

Defines dimensions and specifies a standard procedure for measuring the body.

© 2017 Catalogue of Malawi standards
MS 334:1991  **SKIN CARE PRODUCTS – SPECIFICATION (5 p) M**

Prescribed the basic requirements for general purpose creams, lotions and gels for skin care as products intended either for lightening or conditioning the skin.

MS 346:2005  **INCINERATORS – METHODS OF SPECIFYING PURCHASERS REQUIREMENTS FOR INCINERATION PLANT FOR THE DESTRUCTION OF HOSPITAL WASTE (6 p) M**

This standard details a method for specifying purchaser’s requirements for incinerators for the destruction of hospital waste manufactured to specific requirements. It does not cover other items of plant such as charging machines, chimneys, flues, etc.


Covers requirements for Afridev deepwell handpump suitable for lifting water from depth of 10m to 45m. It applies to boreholes with casing sizes of nominal 100 mm, 115 mm, 127 mm, 150 mm or 200 mm internal diameter.

MS 349:2002  **EDIBLE CASSAVA FLOUR – SPECIFICATION (2 p) M**

Applies to cassava flour intended for human consumption.

MS 351:2000  **FERTILIZERS, UREA – SPECIFICATION (2 p) M**

Specifies the requirements for urea fertilizer.

MS 352:2000  **FERTILIZERS, NITRATE OF SODA – SPECIFICATION (2p) M**

This Malawi standard specifies the requirements for nitrate of soda fertilizer, also known as Sodium nitrate (NaNO₃).

MS 353:2000  **FERTILIZERS – AMMONIUM NITRATE – SPECIFICATION (2 p) M**

This Malawi Standard specifies requirements for Ammonium nitrate fertilizers (NH₄NO₃), also called Nitrate of ammonia.

MS 354:2000  **FERTILIZERS, MURIATE OF POTASH – SPECIFICATION (5 p) M**

Specifies requirements for muriate of potash fertilizer, also called potassium chloride (KCl).

MS 355:2000  **FERTILISERS, SULPHATE OF POTASH – SPECIFICATION (1 p) M**

Specifies requirements and methods of test for sulphate of potash fertilizer, also called potassium sulphate (K₂SO₄).


This standard gives guidance on the design, specification, installation and commissioning of incineration plant for the destruction of hospital waste. It also gives information on training of staff and maintenance of plant, on collection and transportation of hospital waste.

MS 357: 1998  **THREADS FOR FOOTWEAR – METHODS OF TEST (8 p) V**

Covers methods of test for threads for footwear.
MS 358:1991  HIDES AND SKINS, RAW – RULES FOR PRESERVATION (6 p) V

Prescribes the rules for preservation of raw hides and skins and applies to methods of preservation by air-drying stack salting, dry salting and pickling of raw hides and skins intended for tanning.


This standard lays down the tolerance limits for industrial effluents discharged into inland surface waters, sampling guidelines and test methods.

Effluents discharged on land or into ground water or air are not covered by this standard. This method can also be used to determine the moisture content of the wet gluten.

This method can also be used to determine the moisture content of the wet gluten.

This method can also be used to determine the moisture content of the wet gluten.

MS 360:2002  PAPER – DETERMINATION OF BURSTING STRENGTH (9 p) V

This standard specifies a method for measuring bursting strength of paper submitted to increasing hydraulic pressure. It is applicable to paper having bursting strengths within the range 70 kPa to 1 400 kPa. It is not intended to be used for the components (such as fluting medium or linerboard) of a combined board, for which the method given in ISO 2759 is suitable.

MS 363-1:2002  PACKAGING SACKS – DROP TEST

Part 1: Paper sack (9 p) V

This standard specifies a method of vertical impact testing on a filled paper sack by dropping. It may be performed either as a single test to investigate the effects of vertical impact or as part of a sequence of tests designed to measure the ability of a sack to withstand a distribution system that includes a vertical impact hazard.

This standard specifies the testing procedure and how the results of tests should be presented. It is based on ISO 2248, but is specifically related to paper sacks.

MS 363-2:2002  PACKAGING SACKS – DROP TEST

Part 2: Sacks made from thermoplastic flexible film (9 p) V

This part of standard MS 363 specifies a method of vertical impact testing on a filled sack made from thermoplastic flexible film by dropping. It may be performed either as a single test to investigate the effects of vertical impact or as part of a sequence of tests designed to measure the ability of a sack to withstand a distribution system that includes a vertical impact hazard.

MS 364-1:2002  PAPER AND BOARD – DETERMINATION OF TENSILE PROPERTIES

Part 1: Constant rate of loading method (6p) V

This part of MS 364 specifies a method of measuring the tensile strength of paper and board using an instrument operating at a constant rate of application of tensile force (constant rate of loading) which causes failure of the test piece in a mean time of 20 ± 5 s. It also specifies methods for calculating the breaking length and tensile index.
MS 364-2:2002 PAPER AND BOARD – DETERMINATION OF TENSILE PROPERTIES

Part 2: Constant rate of elongation method (7p) V

This part of SM 364 specifies a method of measuring the tensile strength, stretch at break, and the tensile energy absorption of paper and board using a test instrument operating with a constant rate of elongation. It also specifies methods for calculating the tensile energy absorption index and the breaking length.

MS 366:2010 HONEY – SPECIFICATION (9p) M

This standard applies to all honeys produced by honey bees and covers all styles of honey presentations, which are processed and ultimately intended for direct consumption. It also applies to honey used as an ingredient in other foods, and honey, which is packed for sale in bulk containers, which may be repacked into retail packs.

MS 367:2010 WAX POLISH – METHODS OF TEST (10 p) V

This standard covers methods of test for wax.

MS 368:1991 METHYLATED SPIRITS – SPECIFICATION (5 p) M

Specifies requirements for industrial methylated spirits.

MS 370:1991 METHYLATED SPIRITS – METHODS OF TEST (9 p) V

Prescribes methods to be used for ascertaining conformity with specification of methylated spirits.

MS 372:1991 HAND DISH WASHING LIQUIDS – SPECIFICATION (9 p) M

Specifies liquid detergents for use in soft or hard water for hand dishwashing and for cleaning of hard surfaces.

MS 373:1991 SCOURING POWDER – SPECIFICATION (3 p) M

Covers scouring powders for the removal of tenacious soil from hard surfaces.

MS 374-1:1992 BLACK POLYETHYLENE PIPES FOR THE CONVEYANCE OF LIQUIDS - SPECIFICATION

Part 1: Low Density Polyethylene Pressure Pipes (10 p) M

Covers two types of plain unthreaded, black low density polyethylene (LDPE) pipes intended for applications above and below ground for the conveyance of water under pressure when prolonged exposure to elevated temperatures (above 40 °C) is not likely to be encountered.

MS 374-2:1992 BLACK POLYETHYLENE PIPES FOR THE CONVEYANCE OF LIQUIDS – SPECIFICATION

Part 2: High Density Polyethylene Pressure Pipes (14p) M

Covers two types of plain unthreaded, black high density polyethylene (HDPE) pipes intended for applications above and below ground for the conveyance of water under pressure when prolonged exposure to elevated temperatures up to 60 degrees are encountered.
MS 374:2004 BLACK POLYETHYLENE PIPES FOR THE CONVEYANCE OF LIQUIDS – SPECIFICATION

Part 3: High Density Polyethylene PE 80 Pressure Pipes (8p) M

This part of MS 374 covers plain, unthreaded, high-density black polyethylene (PE-HD) pipes (including pipes with integral fittings) that have a design stress rating of 6.3 MPa. They are intended for applications above and below ground, for the drainage and conveyance of water under pressure where temperatures of up to 40 °C are encountered.

MS 375:1992 METHYL DIBROMIDE INSECTICIDE FUMIGANT – SPECIFICATION

This standard covers insecticidal liquefied gas fumigants intended for use in soil, food storage premises and containing methyl bromide and chloropicrin.

MS 376:1992 ETHYLENE-DIBROMIDE INSECTICIDE – SPECIFICATION (6 p)

Covers insecticidal emulsifiable concentrates containing ethylene dibromide and intended for use as a soil fumigant in plant protection and for use in food storage premises.

MS 378:1991 MINERAL TURPENTINE – SPECIFICATION (2 p) M

Covers the requirements for mineral turpentine (white spirit) for use in thinning paints and varnishes and for other uses.


This Malawi standard covers one type of bituminous aluminium paints for interior and exterior use on primed metal, masonry, asbestos cement, and wood surfaces. It may also be applied to roofing felt, to creosoted timber, and to hard bituminous surfaces that have been allowed to weather for at least 8 weeks before painting.

MS 384:2013 WOOD PRESERVATIVE (METALLIC NAPHTHENATE)-SPECIFICATION (sec ed) (9p) M

This Malawi standard specifies requirements and methods of sampling and test for metallic naphthenates for wood preservation. It covers metallic naphthenate concentrates and solutions of metallic naphthenate suitable for the preservation of wood.

MS 386:2014 BITUMINOUS PAINTS FOR COLD APPLICATION EXCLUDING USE IN CONTACT WITH POTABLE WATER–SPECIFICATION (second ed)(9p) M

This Malawi standard specifies requirements and methods of sampling and test for a range of bitumen-based solvent-borne paints. It covers paints for cold application by brushing, spraying, rolling or dipping processes intended to give a coat for the corrosion protection and water-proofing of substrates including iron and steel.


This Malawi Standard specifies requirements and methods of sampling and test for decorative oil gloss paint (other than emulsion paints) for interior and exterior use as a finishing coat on metal, wood, sealed plaster walls, composition board and similar materials that have been primed or painted previously.

This Malawi standard covers a latex-type of alkali-resistant plaster primer for interior and exterior use on dry cement plaster and concrete, unglazed brick, gypsum plaster-board, fibre-cement boards and other compressed fibre wallboard compositions, but not for use on gypsum plaster surfaces.

MS 391:2013 VARNISH FOR INTERIOR USE-SPECIFICATION (sec ed) (12 p) M

This Malawi standard specifies requirements and methods of sampling and test for varnish for interior use. It covers the following two types of varnish for interior use on wooden surfaces.

392:2013 VARNISH FOR WOOD FLOORS-SPECIFICATION ( Second ed)(13p)M

This Malawi standard specifies requirements and methods of sampling and test for varnish for wood floors. It covers two types of varnish for use on interior wood floors.

MS 393:1992 PAINT UNDERCOAT – SPECIFICATION (12 p) M

Covers undercoats for air-drying protective and decorative paints for use on primed steel and timbers and on sealed and primed masonry wall boards, compressed fibre and other materials used in the construction and framing of buildings.

MS 394:2013 ALUMINIUM FINISHING PAINTS-SPECIFICATION (Second edition) (6 p) M

This Malawi standard specifies requirements and methods of sampling and test for alluminium paints for use as a finishing coat on primed surfaces for exterior and interior exposure. This paint is suitable for use as a roof paint on suitably primed or previously painted galvanized iron.

MS 396:1992 MINERAL SOLVENTS FOR PAINT (WHITE SPIRIT AND RELATED HYDROCARBONS SOLVENTS) – SPECIFICATION (7 p) M

Specifies the requirements for two categories of mineral solvents for use in paints and varnishes and for other purposes.

MS 397:1992 GLAZED CERAMIC SANITARYWARE – SPECIFICATION (17 p) M

This standard covers wash-hand basins; pedestal sinks water-closet pans, bidets, urinals and flushing cisterns made of fireclay and of vitreous china, ceramic materials.


This Malawi standard specifies requirements for solvent-based paint removers applied by brush. The paint removers are intended for general use on surfaces of painted, vanished or lacquered wood, plaster or metal. As supplied, paints removers conforming to this standard will be non-flammable and will not be suitable for some substrates (see foreword)

MS 400:1995 PIGEON PEAS – SPECIFICATION (2 p) M

Specifies requirements for shelled dry peas, Cajanus cajan L, intended for human consumption.

MS 407:1992 BLACK POLYETHYLENE PIPES FOR THE CONVEYANCE OF LIQUIDS – METHODS OF TEST (20 p) V

Prescribes methods of test for black polyethylene pipes for the conveyance of liquid.
MS 408:1992  CREOSOTE FOR WOOD PRESERVATION – SPECIFICATION (6 p) M

Specifies requirements for three types of coal tar creosote for wood preservation.

MS 410:1994  BLACK TEA METHODS OF TEST (6p) V

This standard specifies methods of test for black tea.

MS 412-1:1994 BLACK TEA – METHODS OF SAMPLING

Part 1: Sampling from large containers (2 p) V

Applies to sampling of black tea from large containers, i.e containing more than 20 Kg of loose tea, for example tea chests.

MS 412-2:1994 BLACK TEA – METHODS OF SAMPLING

Part 2: Sampling from small containers (2 p) V

Applies to sampling of black tea from small containers, i.e those containing not more than 1 kg of loose tea.

MS 414-1:2002 MASONRY CEMENT – SPECIFICATION (10 p) M

Specifies requirements for the composition, manufacture, sampling and testing of masonry cement (without air entrainment agents).

MS 415:2014  SUNFLOWER SEEDS FOR THE MANUFACTURE OF OIL-SPECIFICATION (3p) M

This Malawi standard prescribes requirements for sunflower seed of Helianthus annus Linn family intended for the manufacture of oil for human consumption.

MS 416:2014  DAIRY CATTLE FEED SUPPLEMENTS-SPECIFICATION (first ed) (5p) M

This standard specifies minimum requirements for daily cattle feed supplements.

MS 417:1995  MEAT MEAL AND MEAT AND BONE MEAL AS LIVESTOCK FEED - SPECIFICATION (2 p) M

Prescribes requirements for meat meal and meat and bone meal meat for livestock feeding.

MS 420:1992  LEAD ACID STARTER BATTERIES – CODE OF PRACTICE FOR HANDLING AND - OPERATION (24 p) M

Covers the operation and maintenance of lead acid starter batteries (type of batteries used in cars, lorries, tractors and motor cycles). It describes how batteries should be maintained in order to get a longer life from them.

MS 422:1997  FISHMEAL AS LIVESTOCK FEED –SPECIFICATION (2 p) M

Prescribes requirements for fish meal for livestock feeding.

MS 423:1995  BONE MEAL AS LIVESTOCK FEED – SPECIFICATION (2 p) M

Prescribes requirements for bone meal to be used as a mineral supplement in livestock feeds.

MS 424:1997  BLOOD MEAL AS LIVESTOCK FEED – SPECIFICATION (1 p) M

Prescribes requirements for blood meal as livestock feed.

This Malawi standard specifies requirements for castor seed (Ricinus communis Linn), of Euphorbiaceae family for the manufacture of oil along with the relevant methods of sampling and test.

**MS 428:2013 IMMERSION TYPE HEATING UNITS FOR ELECTRICAL APPLIANCES–SPECIFICATION (22p)**

This Malawi Standard specifies required for five replaceable for types of replaceable immersion-type heating units (see 4.1) intended for use in portable electrical appliances for electrical appliances for heating water or non–corrosive aqueous solutions at d.c voltages of not less than 42V and a.c voltages of not more than 240V between phase and neutral conductor and at a rate load not exceeding 6 Kw.

**MS 456:1993 UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPES AND FITTINGS – METHODS OF TEST (19 p)**

Covers methods of test for unplastisized polyvinyl chloride (UPVC) pressure pipes and fittings for conveyance of potable water, pipes and fittings for use in drainage installations above ground and sewer and drain pipes and fittings.


This Malawi Standard specifies requirements for materials used in vulcanized rubber seals for

a) cold drinking-water supplies (up to 50 °C);

b) drainage, sewerage and rainwater systems (continuous flow up to 45 °C and intermittent flow up to 95 °C).

**MS 459:1994 BLACK TEA – VOCABULARY (8p)**

This standard provides a list of terms and definitions, applicable to the techniques of processing and assessing black tea for commerce.

**MS 460:2008 BLACK TEA – PREPARATION OF LIQUOR FOR USE IN SENSORY TESTS (4p)**

This Malawi standard specifies a method for the preparation of a liquor tea for use in sensory tests, by means of infusing the leaf.

**MS 461:1993 CASHEW KERNELS – SPECIFICATION (5 p)**

Specifies requirements and methods of sampling and test for kernels obtained from cashew nuts (*Anacardium occidentale* L.).

**MS 468:1993 MOSQUITO COILS – SPECIFICATION (6 p)**

Prescribes the physical and active ingredients for mosquito coils.

**MS 469:1993 MOSQUITO COILS – METHODS OF TEST (11 p)**

Lays down the methods of testing mosquito coils for their physical, chemical and biological efficacy.
MS 470:1993 HAIR CREAMS – SPECIFICATION (2 p) M
Prescribes requirements for creams and other oil-based emulsion preparations for the hair. These include water-in-oil and oil-in-water emulsions. It does not cover hair oils, brilliantines and pomades.

MS 471:1993 HAIR OILS – SPECIFICATION (3 p) M
Prescribes requirements for hair oils and other oil-based cosmetic preparations for hair. This includes hair tonics and hair oil concentrates.

MS 475:1993 HAIR SHAMPOO, SOAP BASED – SPECIFICATION (3 p) M
Prescribes the requirements for soap-based hair shampoo. Also applies to shampoo with possible medical effect on the skin, but excludes special shampoos that are only meant for neutralizing purposes.

Hair creams which contain ingredients that have an effect on the physiological functions of the body or scalp or the hair or for which medical functions (theurapeutical) claims are made are not covered by this standard

MS 477:1997 FOOD FOR INFANTS AND CHILDREN – CODE OF HYGIENIC PRACTICE (10 p) M
This Malawi Standard provides a code of hygienic practice for all pre-packed foods intended to be for special use for infants and/or children. It contains the minimum hygienic requirements for the handling (including production, processing, packaging, storage, transportation, distribution and sale) of such foods to ensure a safe, sound and wholesome product.

MS 479:1997 AVOCADO – SPECIFICATION (2 p) M
Specifies requirements for fresh avocados to be supplied in export and local specified markets. The standard stipulates requirements for handling, grading and packaging of the produce up to dispatching stage.

MS 480:1995 COOKSTOVES, SOLID FUEL – TYPE 1 – METHODS OF TEST (6 p) V
Covers methods of test for solid fuel cookstoves – (Type 1) for the purpose of verification and ascertaining of relevant performance and construction.

MS 488:2004 WOODEN CEILING AND PANELING BOARDS – SPECIFICATION (10p) M
This specification covers three grades of profiled boards (planed and sanded) manufactured from hardwood or softwood timber and intended for use in ceilings or paneling.

MS 489-1:2012 WOODEN POLES AND CROSS-ARMS FOR POWER TRANSMISSION, LOW VOLTAGE RETICULATION AND TELEPHONE SYSTEMS (34 p) M
Part 1: Pine poles
This standards specifies requirements for pine poles, grown in Southern Africa, that are treated with creosote, a mixture of creosote and waxy oil, or a mixture of copper-chromium-arsenic compounds (CCA), and that are intended to be used as upright supports for street lighting and telephone systems, and as upright supports cross-arms and spacers (in five-pole structures) for power distribution lines.
MS 492:2012 POLYWOOD AND COMPOSITE BOARDERS – SPECIFICATION (25P) M

This specification covers requirements for materials, construction, preservative treatment, dimensions and performance of plywood and composite board.

MS 493:1995 TIMBER, HARDWOOD FURNITURE – SPECIFICATION (18 p) M

Covers three basic grades of rough-sawn hardwood timber derived from trees of the Podocarpus spp, intended for use in the manufacture of furniture.

MS 494:1995 BOARDS, SOFTWOOD FLOORING – SPECIFICATION (15 p) M

Covers the requirements for three grades of softwood flooring boards obtained from timber derived from trees of the general Pinus, Cedrus, Podocarpus and Cupressus grown in Southern Africa.

MS 495:1995 BOARDS, FIBRE-CEMENT – SPECIFICATION (8 p) M

Covers flat and flat-pressed boards manufactured from fibre cement.

MS 496:2012 SOFTWOOD BRANDERING AND BATTENS SPECIFICATION (24P) M

This standard specifies requirements for one grade of timber suitable for use as brandering and battens intended for being fixed against beams and joists in roofs for the attachment of ceilings and for the boxing in of eaves, and use as supports on roof trusses for fixing of roofing slates, tiles, wooden shingles and thatch.

MS 498:2008 ILLUMINATING PARAFFIN – SPECIFICATION (3 p) M

This Malawi standard covers a hydrocarbon fuel suitable for use in wick-fed, pressure vapourising and other paraffin burning appliances for the purposes of illumination.

MS 499:1995 TIMBER, STRESS GRADED SOFTWOOD GENERAL STRUCTURAL – SPECIFICATION (17 p) M

Covers one stress of visually or mechanically structural timber (including finer jointed timber) derived from trees of the general coniferae grown in Southern Africa.

MS 502:1995 SOFTWOOD FURNITURE TIMBER – SPECIFICATION (10 p) M

Covers two grades of rough-sawn timber derived from trees of general of the coniferae grown in Southern Africa and intended for use in furniture manufacture.

MS 503:1995 SOFTWOOD JOINERY TIMBER – SPECIFICATION (11 p) M

Covers one grade of rough-sawn timber derived from trees of the general coniferae grown in Malawi and intended for use in joinery work.
MS 508:2013 TEXTILES – DETERMINATION OF PH AQUEOUS EXTRACT (5p)

This Malawi Standard specifies a method for determining the pH of the aqueous extract of textiles. The method is applicable to textiles in any form.

MS 509:2010 GALVANISED IRON SHEETS – SPECIFICATION (Second edition) (7 p) M

This Malawi Standard specifies requirements for materials, profile and dimensions of galvanized corrugated and troughed iron sheets for roofing, cladding and other general uses.

MS 510:1997 FISH MEAL – VOCABULARY (1p) V

This Malawi standard defines terms relating to fish meal.

MS 511:2011 ANIMAL FEEDING STUFF – QUANTITATIVE DETERMINATION OF ZEARALENONE CONTENT (8 p) V

This Malawi Standard specifies a qualitative method for the determination of zearalenone in animal feeding stuffs and in particular, in maize. This method is for screening purposes only.

MS 512:2009 ANIMAL FEEDING STUFFS – DETERMINATION OF FREE AND TOTAL GOSSYPOL (3p) M

This Malawi Standard specifies a method for the determination of the content of free and total gossypol and chemically related substances in animal feeding stuffs. The method is applicable to cotton seed and cotton seed meals and cakes, and to compound feeding stuffs containing these substances. The detection limit for free gossypol is 20 mg/kg and that for total gossypol is 50 mg/kg.

MS 516: 2010 COFFEE AND COFFEE PRODUCTS – VOCABULARY (7p) V

This Malawi Standard defines the most commonly used terms relating to coffee and its products.

MS 517:2008 PULSES– DETERMINATION OF GLYCOSIDIC HYDROCYANIC ACID (5p) M

This Malawi Standard specifies a method for the determination of glycosidic hydrocyanic acid in pulses. The method is generally applicable but may require modification if sulphides or certain other sulphur compounds are present. Conversely, if no such compounds are present, a mercurimetric titration procedure may be used, details of which are given in the annex.

MS 518-1:2010 CEREALS AND PULSES – DETERMINATION OF HIDDEN INSECT INFESTATION

Part 1: General Principles. (3p) V

This part of MS 518 establishes the general principles of methods of determining hidden insect infestation in cereals and pulses.

MS 518-2:2010 CEREALS AND PULSES– DETERMINATION OF HIDDEN INSECT INFESTATION

Part 2: Sampling (5p) V

This part of MS 518 specifies methods of sampling cereals and pulses, in bags or in bulk, for the determination of hidden insect infestation.
Part 3: Reference Method

This part of MS 518 specifies the reference method for determining the nature and number of hidden insects in a sample of cereals and pulses. Its aim is to count all the individuals, at every stage of life, of every insect species that normally feeds and develops within cereals and pulses.

Part 4: Rapid methods

This part of MS 518 specifies five rapid methods for estimating the degree of or detecting the presence of, hidden insect infestation in a sample of a cereals or pulses.

This Malawi Standard covers the physical, chemical and microbiological requirements, and methods of sampling and testing for thobwa powder.

Specifies constructional and performance requirements for electrical appliances of rated capacity not exceeding 80 litres for heating liquids for household and similar use and intended for operation on a.c supply voltages not exceeding 250 V to earth and at current ratings not exceeding 16A.

This Malawi standard specifies the characteristics of refillable, CO₂ gas cartridges (steel) of capacities up to 500 g.

This Malaw Standard specifies a method of obtaining a representative sample of empty sacks for testing.

The standard is applicable when sampling in order to assess the average quality of a consignment of empty sacks. The method is not suitable to sampling for production control.

The method applies to all types of empty sacks.

Specifies a method for determining the tearing resistance of paper. It can also be used for light boards if the tearing resistance is within the range of the instrument.

This Malawi Standard specifies a method for the determination of the wet strength of paper and board by measuring its bursting strength after it has been immersed in water for a specified period.

In principle, the method is applicable to most kinds of paper and board, provided that an appropriate immersion time is agreed between the interested parties.

Different results may be found if the sample is re-tested after a period of time.
MS 526:1997  VEGETABLE – TANNED OUTERSOLE LEATHER – SPECIFICATION (3 p) M
Covers outer-sole leather tanned with vegetable tanning materials only.

MS 527:1999  SOLAR WATER HEATERS – METHODS OF TEST (13p) V
This Malawi Standard specifies test methods for mechanical qualification, term energy output of solar water heaters.

MS 528:2000  PVC-INSULATED CABLES FOR ELECTRICITY SUPPLY – SPECIFICATION (44 p) M
This standard specifies requirements dimensions for PVC-insulated cables for operation at nominal voltages up to and including 1900 V to armour or earth and 3300 V between conductors.

The standard covers cables intended for general use where the combination of the ambient temperature and temperature rise due to the loading current results in a conductor temperature not exceeding 70 °C.

MS 529-1:2005  REPRODUCTION OF RECONDITIONED TYRES
Part 1: definitions (3p) V
This part of the specification defines the terms used in the production of reconditioned tyres and includes a diagram illustrating the cross-section of a typical tyre.

MS 529-3:2005  REPRODUCTION OF RECONDITIONED TYRES
Part 3: repairs (5p) M
This specification covers the requirements for repairs of permissible defects in tyres that are to be reconditioned in accordance with the relevant part of the specification. The method of repair, the materials, and the equipment to be used are also covered.

MS 529-4:2005  REPRODUCTION OF RECONDITIONED TYRES
Part 4: passenger car tyres – specification (10p) M
This part of the specification covers the requirements for tyres for passenger cars, station wagons, and caravans, that are to be reconditioned (by the use of a hot moulding process) by remoulding or retreading or top-capping, and for the methods of reconditioning and the equipment to be used.

MS 529-5:2005  REPRODUCTION OF RECONDITIONED TYRES
Part 5: light truck cross – ply tyres (9p) M
This part of the specification covers the requirements for two classes of cross-ply tyres for light trucks that are to be reconditioned (by the use of a hot moulding process) by remoulding, retreading, or top-capping, and for the methods of reconditioning and the equipment to be used.
MS 529-6:2005 REPRODUCTION OF RECONDITIONED TYRES

Part 6: bus and truck cross – ply tyres (13p) M

This part of the specification covers the requirements for five classes of cross-ply tyres for buses, trucks, and trailers that are to be reconditioned (by the use of a hot mounding process) by retreading or top-capping, and for the methods of reconditioning and the equipment to be used.

MS 529-7:2005 REPRODUCTION OF RECONDITIONED TYRES

Part 7: tyres reconditioned by the procured tread process (14p) M

This part of the specification covers the reconditioning, by the use of a pre-cured tread process, of tyres for passenger cars, station wagons, caravans, light trucks, trucks, and buses.

Requirements are laid down for the casings, the methods of reconditioning, and the equipment to be used as well as for the finished product.

MS 530:2014 FARM IMPLEMENTS-METHOD OF SAMPLING (second ed) (2 p) V

Prescribes the recommended procedures for sampling of agricultural equipment and their components.

MS 531:2012 AGRICULTURAL LIMING MATERIALS – SPECIFICATION (7p) M

This standard prescribes requirements and methods of sampling and test for agricultural liming material (ALM). It covers the various types (or forms) of ALM including limestone (calcitic or dolomitic), dolomite, burnt lime (quicklime), slaked lime (hydrated lime), marl and industrial by-products.

MS 532:1999 BOREHOLE CONSTRUCTION – CODE OF PRACTICE (5 p) M

Covers boring method, drilling diameters and depth, borehole cleaning, alignment and verticality, casing and screens for hand pumps installation and headwork’s construction, testing and test methods, sampling and record of strata.


This standard covers methods of treatment and disposal of effluents from dairy and allied industries. It is a compilation of sources, nature, volumes and pollution effects of the effluents, ways of waste prevention and methods of their treatment and disposal.


This standard prescribes requirements and methods of sampling and test for diesel fuels other than biodiesel suitable for various types of diesel engines.

MS 539:2013 INDUSTRIAL EFFlUENTS – TOLERANCE LIMITS FOR DISCHARGE INTO INLAND SURFACE WATERS (30 p) M second ed.

The standard lays down the tolerance limits sampling guidelines and test methods for industrial effluents discharged into inland surface waters.


This Malawi standard applies to sorghum grains as defined in section 3, for human consumption, i.e. ready for its intended use as human food presented in packaged form or sold loose from the package directly to the consumer. It does not apply to other products derived from sorghum grain.
MS 543:2015  WHEAT PROTEIN PRODUCTS INCLUDING WHEAT GLUEN–SPECIFICATION (4p) M

This Malawi standard prescribes the requirements and methods of test for wheat protein prepared from wheat by various processes. The products are intended for use in foods requiring further preparation and for use by the food processing industry. Wheat gluten or wheat protein products shall not be used for technological reasons e.g coating or processing aids for foods which are gluten–free by nature.

MS 544:2010  WHOLE AND DECORTICATED PEARL MILLET GRAINS – SPECIFICATION (First edition) (5p) M

This Malawi Standard applies to whole and decorticated pearl millet grains destined for human consumption which is obtained from Pennisetum americanum L.

MS 546:2007  POULTRY PROCESSING – CODE OF PRACTICE (7p) M

This code is concerned with poultry, poultry carcasses, poultry parts and other edible portions thereof, which have not yet been treated in any way to ensure their preservation, except that they have been chilled or frozen and are for human consumption, whether by direct sale as such or through further processing. The code applies to all premises in which poultry is slaughtered, packed, or otherwise handled in the course of preparation, and all premises in which poultry parts are processed, packed, or otherwise handled in the course of preparation. It also applies to conditions of transport from all such premises.

MS 549:2001  MILK POWDER HANDLING – CODE OF PRACTICE (9 p) M

This code of practice recommends general hygienic and technological practices for use in the handling (including production, preparation, processing, packaging, transportation and distribution) of milk powder for human consumption to ensure safe, sound and wholesome product.

MS 552:2005  SAFETY OF WELDING – CODE OF PRACTICE (16p) M

This standard establishes the general principles for the protection of persons from injury and illness, and for the protection of property and equipment from damage that can arise from welding processes.

MS 554:1996  PEANUT BUTTER – SPECIFICATION (9 p) M

The standard covers the requirements, and methods of sampling and test for peanut butter of two types; smooth texture peanut butter and crunchy texture peanut butter.

MS 555:2013  GLYCERINE FOR COSMETIC INDUSTRY – METHODS OF TEST (second edition)(22 p) V

Lays down methods of sampling and test for glycerine. It describes methods for sampling quantities of glycerine, either crude or refined, for industrial use, in the course of filling, or already contained in drums or in transportable or fixed tanks.

MS 556:2012  ANIMAL DRAWN MOULDBOARD PLOUGH–SPECIFICATION ( first ed) ( 7p) V

This Malawi standard prescribes materials, dimensions and other requirements of fixed type animal drawn mouldboard plough.

MS 557:2013  GLYCERINE FOR COSMETIC USE –SPECIFICATION ( 2p) M

This standard specifies requirements for glycerine used as a cosmetic.
MS 560:2004  NATURAL MINERAL WATERS - SPECIFICATION (First edition) (9p) 
This Malawi Standard specifies description, treatment, packaging and sampling requirements for natural mineral waters intended for human consumption. It does not apply to natural mineral water sold or used for other purposes.

MS 566:1998  WAX SHOE POLISH – SPECIFICATION (5 p) 
Covers requirements for wax shoe polish of any colour, suitable for general application to leather shoes and goods.

MS 569-1:2013  TISSUE PAPER-PART 1: GENERAL REQUIREMENTS (first ed) (13p) 
This part of MS 569 specifies the general requirements and test methods for, and conditioning of tissue paper and tissue products.

MS 569-2:2013  TISSUE PAPER (second ed). (9p) 
Part 2: Toilet paper
This part of MS 569 covers four grades (see 4.1) of creped toilet paper supplied in rolls.

MS 569-3:2013  TISSUE PAPER (first edition) (9p) 
Part 3: Facial tissues
This part of MS 569 covers tissue paper, in sheet form, for use primarily for facial hygiene.

MS 569-4:2014  TISSUE PAPER (first edition) 
Part 4: Paper towels (9p) 
This part of MS 569 covers paper towels, in rolls and in sheets (single ply and double –ply)- suitable for general and industrial purposes.

MS 569-5:2013  TISSUE PAPER PART5: DISPOSABLE WIPING PAPER IN ROLLS (first ed) (10p) 
This part of MS 569 covers three types of tissues paper in rolls, intended for use as wiping paper in industrial, workshop, laboratory, office, agricultural and other environments where hands and tools and other equipment need to be wiped, cleaned or dried.

MS 573:2007  ETHANOL – SPECIFICATION (9p) 
Specifies requirements for four grades of ethanol, i.e. food grade, industrial grade, analytical grade, and fuel grade ethanol. It applies to ethanol that is of agricultural origin (starch or sugar based).

MS 575:1999  BLEACHING POWDER, STABLE – SPECIFICATION (First edition) (8p) 
This standard specifies the requirements and methods of sampling and test for stable bleaching powder intended for household and/or industrial use.

MS 577:2001  BENZENE, CLEANING – SPECIFICATION (1 p) 
Covers a hydrocarbon solvent suitable for general clearing purposes and for the clearing of silver platinum contact of telecommunication systems.
This Malawi Standard specifies the requirements for chitenje.

Covers the chemical, physical and performance requirements for three exposure classes of non-structural synthetic adhesives dispersed in water and based on the polymerization of vinyl acetate or on its co-polymerization.

Covers creosote that is derived entirely from coal tar produced by the high-temperature carbonization of bituminous coal, and that is intended for use in the preservation of timber.

Covers creosote that is derived entirely from coal tar produced by the Lurgi-gasification processing of bituminous coal, and that is intended for use in the preservation of timber.

This specification covers two types of wood-preserving mixtures of creosote and waxy oil for use in the preservation of timber.

This specification covers mixtures of copper-chromium-arsenic compounds (in the form of a powder, a granular powder, a paste or a liquid) for timber preservation.

This Malawi Standard covers requirements for the following two types of boron timber preservatives:

Type I: A sodium borate of a composition corresponding approximately to that of disodium octaborate tetrahydrate ($\text{Na}_2\text{B}_8\text{O}_{13}\cdot 4\text{H}_2\text{O}$).

Serves as practical guide on safety and health aspects in and around timber treatment plans. It is applicable to any treatment process in which water borne preservatives, flame retardant organic solvent-based preservation or creosote are used.

This part of MS 599 specifies the characteristics of uncoated fibreboard

This part of MS 599 specifies the characteristics of coated fibreboard.
LS 600:2004  LAMINATED TIMBER (GLULAM) – SPECIFICATION (21 p) M

This specification covers the general requirements for softwood and hardwood laminated members that consist of laminations (glued or otherwise) bonded together with the general fibre direction parallel to the longitudinal or curved axis of each member.

MS 601:2014  NUTMEG (WHOLE OR BROKEN AND MACE (WHOLE OR IN PIECES) – SPECIFICATION (5 p) M

This Malawi Standard specifies requirements for nutmeg, whole or broken, and for mace, whole or in pieces, obtained from the nutmeg tree (Myristica fragrans Houttuyn) for wholesale commercial purposes.

MS 602:2005  MECHANICAL STRESS GRADING OF SOFTWOOD – TIMBER (FLEXURAL METHOD) – CODE OF PRACTICE (3p) M

This code of practice covers the mechanical stress grading, by the determination of stiffness in bending, of solid timber (free from glued or other joints) derived from trees of the genus Pinus.

MS 609:1995  CEREALS AND PULSES – DETERMINATION OF THE MASS OF 1000 GRAINS (2 p) V

The standard specifies a method for the determination of the mass of 1000 grains of cereals and pulses. The standard is applicable to all cereals and pulses with the exception of seed lots for sowing purposes.

MS 610:1995  CEREALS AND CEREAL PRODUCTS – DETERMINATION OF MOISTURE CONTENT (BASIC REFERENCE METHOD) (5p) V

This Malawi standard specifies the basic reference method for the determination of the moisture content of cereals and cereal products.

The method does not apply to maize, for which an identical method, called the absolute method, is specified in the annex to ISO 6540.

This basic method, which necessitates the employment of special equipment and experienced analysts, is thereof only suitable for use in specialized laboratories, and is intended to serve as a standard for checking and perfecting routine methods for the determination of moisture content (see particularly ISO 712). It is not intended to be used for settling commercial disputes.

MS 612:1997  SORGHUM – DETERMINATION OF TANNIN CONTENT (2 p) V

Specifies a universal method for the determination of tannin content in sorghum grains.

MS 615:2005  WASTE WITHIN HEALTH CARE FACILITIES – HANDLING AND DISPOSAL (CODE OF PRACTICE) (18 p) M

This standard develops criteria for segregation, collection, movement, storage and on-site disposal of waste within healthcare units, biological research facilities, abattoirs and veterinary surgeries.

MS 616:2002  GLAZING PUTTY FOR WOODEN AND METAL WINDOW FRAMES – SPECIFICATION (10 p) M

This specification covers the following two types of putty for glazing of window frames

Type I: Self-setting type for use in primed metal and wooden window frames

Type II: Reaction type for use in primed metal and primed window frames
MS 617-1:1998 PIPES AND FITTINGS MADE OF UN-PLASTICIZED POLY (VINYL CHLORIDE) (PVC-U) FOR WATER SUPPLY – SPECIFICATION
Part 1: General (2 p) M

 Specifies the general aspects of pipes, joints, fittings (post-formed and moulded) and ancillaries, made of unplasticized poly (vinyl chloride) (PVC-U), for a piping system intended to be used for buried water mains and services and for water supplies above ground, both inside and outside buildings.

MS 617-2:1998 PIPES AND FITTINGS MADE OF UN-PLASTICIZED POLY (VINYL CHLORIDE) (PVC-U) FOR WATER SUPPLY – SPECIFICATION (2 p) M
Part 2: Pipes (with or without integral sockets)

 Specifies the characteristics and properties of extruded pipes made of unplasticized poly(vinyl chloride) (PVC-U), with or without socket(s) (integral or not), and intended to be used for buried water mains and services and not for water supplies above ground, both inside and outside buildings.

MS 617-3:1998 PIPES AND FITTINGS MADE OF UN-PLASTICIZED POLY (VINYL CHLORIDE) (PVC-U) FOR WATER SUPPLY – SPECIFICATION (4 p) M
Part 3: Fittings and joints

 Specifies the characteristics and properties of fittings (injection moulded and post-formed) and joints made of unplasticized poly (vinyl chloride) PVC-U, to be used for buried water mains and services and for water supplies above ground, both inside and outside buildings.

MS 619:2000 FRUIT JUICES – SPECIFICATION (3 p) M

 Applies to fruit juices made from fruits of a single species. It does not apply to any fruit juice which is subject to a specific Malawi Standard.

MS 620:2003 STRUCTURED WALL PIPES AND FITTINGS OF UPVC FOR BURRIED DRAINAGE AND SEWERAGE SYSTEMS – SPECIFICATION (33 p) M

 This standard covers unplasticized polyvinyl chloride (UPVC) structured wall pipes (including pipe fittings) with an essentially smooth inside surface, of nominal diameter 110 mm up to and including 1000 mm, and intended for buried gravity drainage and sewerage pipe systems for the transportation of soil and waste discharge of domestic and industrial origin. Pipes of larger diameter are considered to be engineering products and are therefore not included in this standard.

Where the piping carries industrial discharge, chemical and temperature resistance have to be taken into account.


 This Malawi Standard specifies sampling requirements and methods of test for mahewu.

MS 624:2001 NUTRITION LABELLING – GUIDELINES (3 p) M

 Recommends procedures for the nutrition labeling of foods.
MS 625:2001  NUTRITION CLAIMS – GUIDELINES (2 p) M

Relate to nutrition claims made for a food irrespective of whether or not a food is covered by an individual Malawi Standard.

MS 626:2002  SAFETY HELMETS FOR INDUSTRIAL USE AND FOR FIREMEN – SPECIFICATION (16 p) M

This specification covers three types of safety helmets (with brim or peak) for protection against falling objects and electrical hazards such as may be encountered in industry and during firefighting and rescue operations.

MS 627:1998  FIBRE-CEMENT SHEETS FOR ROOFING AND CLADDING (CORRUGATED AND FLAT) – SPECIFICATION (9 p) M

Covers straight corrugated, curved corrugated, flat and flat pressed fibre-cement sheets for roofing and cladding.


Applies to uncoated asbestos – cement pipes intended for underground use as drain or sewer pipes for gravity flow lines.

MS 630:2005  ROASTED AND GROUND COFFEE – SPECIFICATION (9 p) M

This standard prescribes the requirements and methods of sampling and test for roasted and ground coffee.

MS 632:1997  FERTILIZERS – DETERMINATION OF AMMONIACAL NITROGEN CONTENT TITRIMETRIC METHOD (2 p) V

Specifies titrimetric method after distillation, for the determination of the ammoniacal nitrogen content of fertilizers. The method is applicable only in the absence of urea or its derivatives, or cynamide and of organic nitrogenous compounds.

MS 633:2001  MILK POWDER – SPECIFICATION (8 p) M

Specifies requirements and methods of sampling and test for milk provides (dried milk).

MS 639-1:2011  RETRO-REFLECTIVE REGISTRATION PLATES FOR MOTOR VEHICLES–SPECIFICATION PART 1: BLANK PLATES (ALUMINIUM) (sec ed) 16 p M

This part of MS 639, in addition to the relevant national legislation (see foreword), specifies requirements for aluminium blank plates that are intended for use in the production of number plates covered in MS 639-2.

MS 639-2:2011  RETRO-REFLECTIVE REGISTRATION PLATES FOR MOTOR VEHICLES – SPECIFICATION

Part 2: Number plates (aluminium) (second ed) (23 p) M

This part of MS 639, in addition to the relevant national legislation, specifies requirements for aluminium number plates that are intended for use on motor vehicles (including motor cycles and tricycles) and trailers.
MS 639-3:1997 RETRO-REFLECTIVE REGISTRATION PLATES FOR MOTOR VEHICLES – SPECIFICATION

Part 3: Plastics blanks (6 p) M

Specifies requirements for plastics blanks intended for use in the production of the registration plates that are covered by Part 4.

MS 639-4:1997 RETRO-REFLECTIVE REGISTRATION PLATES FOR MOTOR VEHICLES – SPECIFICATION

Part 4: Plastic registration plates (17 p) M

Covers requirements for plastic registration plates that are produced by applying a registration mark and border to plastic blanks and that are intended for use on motor vehicles (including motor cycles and motor tricycles) and trailers.

MS 640:2011 HAND HACKSAW BLADES-SPECIFICATION (14p) M

This specification covers five types of steel hand hacksaw blades of nominal length 300mm and that have a single –toothed edge. The type covered are listed in 4.1.

MS 641:2002 SAFETY HELMETS FOR MOTOR CYCLISTS – SPECIFICATION (24 p) M

This specification covers the requirements for the general design, construction, performance, marking, labelling, and testing of safety helmets for use by motor cyclists on the roads.

MS 642-1:2011 LIGHTS FOR MOTOR VEHICLES (37p) M

Part 1: Incandescent lamps

This part of the specification covers incandescent tungsten filament lamps of the following category for the use in motor vehicles and trailers.

MS 642-2:2011 LIGHTS FOR MOTOR VEHICLES (11p M)

Part 2: Head lamps

This part of the specification covers the requirements for the photometric properties of head-lights emitting an asymmetrical dipped beam, or both, and used in headlight systems meeting left-hand rule-of road requirements.

MS 642-3:2011 LIGHTS FOR MOTOR VEHICLES (22p) M

Part 3: Secondary lights

This part of the specification covers the photometric characteristics of secondary lights for vehicles (see3.1) lights, parking lights, reversing lights, rear registration-plate and lights and end-outline marker lights) and of assemblies of these.

MS 643-1:2013 RETRO-REFLECTIVE AND FLOURESENT WARMING SIGNS FOR ROAD VEHICLES-SPECIFICATION

Part 1: Triangles (21) M

This part of specification covers requirements for two types of triangles that are retro-reflective and fluorescent and intended to be carried in motor vehicles operating on public roads.
MS 643-2:2013 RETRO-REFLECTIVE AND FLOURESCENT WARNING SIGNS FOR ROAD VEHICLES-

Part 2: Abnormal load vehicles signs (18 p) M

This part of specification covers requirements for abnormal load signs that are retro-reflective and fluorescent, and that are intended for use on motor vehicles on public roads.

MS 643-3:2013 RETRO-REFLECTIVE AND FLOURESCENT WARNING SIGNS FOR ROAD VEHICLES-
SPECIFICATION

Part 3: Signs other than triangles, chevron signs and abnormal load vehicle signs.(18p) M

This part of the specification covers requirements for signs, including decals, that are retro-reflective and fluorescent, and that are intended to indicate, maximum permissible speed, width of motor vehicles operating on public roads and identification of emergency vehicles.

MS 643-4:2013 RETRO-REFLECTIVE AND FLOURESCENT WARNING SIGNS FOR ROAD VEHICLES-
SPECIFICATION (11p) M

Part 4: retro-reflective chevron signs

This part of the specification covers requirements for retro-reflective chevron signs that incorporate a substrate and that are intended for use on motor vehicles that operate on public roads.

MS 643-5:2013 RETRO-REFLECTIVE AND FLOURESCENT WARNING SIGNS FOR ROAD VEHICLES-
SPECIFICATION (12p) M

Part 5: Retro-reflective chevron decals

This part of the specification covers requirements for retro-reflective warning signs manufactured as protective coated chevron decals having self-adhesive bases of pigmented vinyl or other polymeric material and intended for use on motor vehicles operating on public roads.

MS 647-1:2010 SAFETY GLASS FOR VEHICLES-SPECIFICATION PART1: HIGH PENETRATION-
RESISTANT LAMINATED SAFETY GLASS (9p) (M)

This specification covers high penetration-resistant laminated safety glass including bullet-resistant glazing materials for use in vehicles

MS 647-2:2003 SAFETY GLASS FOR VEHICLES – SPECIFICATION (1 p) M

Part 2: Laminated safety glass for vehicles

This specification covers laminated safety glass (excluding windscreens) for use in vehicles.

MS 647-3:2010 SAFETY GLASS FOR VEHICLES-SPECIFICATION PART3: TOUGHENED SAFETY GLASS
(3p) M

This specification covers toughened safety glass for use in vehicles.

MS 650:2000 CONDUCTORS IN INSULATED CABLES AND CORDS – SPECIFICATION (12 p) M

This Malawi Standard specifies the nominal cross-sectional areas and requirements, including numbers and sizes of wires and resistance values, for conductors in electric cables and cords of a wide range of types. These conductors include solid and stranded copper and aluminium conductors in cables for fixed installations and flexible copper conductors.
This specification covers the requirements for dimensions, material, construction and strength of four types of spades and ten types of shovels.

Part 1: Low speed vehicles

This part of MS 652 applies to the braking systems of low speed motor vehicles with a maximum design speed of between 6km/h and 40km/h, and motor vehicles for use off public roads.

This specification covers two types of electrical connectors in the form of a socket and plug that will permit interchangeability of electric connectors in the form of a socket and plug that will permit interchangeability of electrical connectors for towing vehicles having electrical equipment operating at nominal voltage of 6, 12, or 24V.

These principles are intended to apply to all foods to which essential nutrients are added.

Part 1: Casino equipment

Specifies constructional and operational requirements for gaming and related equipment that resides on, or is operated on (or both) the gaming floor of a Casino.

Part 2: Limited payout gaming equipment

Covers the constructional and operational requirements for gaming equipment operated under a gaming license at a site, other than a Casino, approved by the Legislative Authority.

Part 3: Monitoring and control systems for gaming equipment

Stipulates general hardware and software requirements, and the list of significant events, required by Malawi Gaming Board for Monitoring and Control Systems for gaming.

Part 4: Chips, plaques and tokens

Specifies the constructional and design requirements of chips, plaques and tokens to be used in Licensed premises as specified by Legislation Authorities (LA).
MS 655-5:2012 GAMING EQUIPMENT – SPECIFICATION

Part 5: General equipment (18 p) M

Covers constructional and design requirements of the general equipment to be used in licensed premises as specified by LA.

MS 656:2002 ADHESIVES FOR USE WITH CERAMIC TILES AND MOSAICS – SPECIFICATION (15 p) M

This Malawi Standard specifies the minimum requirements for adhesives used for fixing ceramic tiles to ensure that they are suitable for their proposed application.

MS 657-1:2004 PORTABLE RECHARGEABLE FIRE EXTINGUISHERS – SPECIFICATION

Part 1: Water type extinguishers (12 p) M

This standard specifies the characteristics of stored pressure, portable rechargeable fire extinguishers of the water type, of capacity in the range 9 ℓ to 10 ℓ (inclusive) and suitable for use on class A fires only.

MS 657-2:2004 PORTABLE RECHARGEABLE FIRE EXTINGUISHERS – SPECIFICATION

Part 2: Dry powder type extinguishers (13 p) M

This standard specifies the characteristics of stored-pressure portable rechargeable fire extinguishers of the dry powder type of capacity not exceeding 12 kg and suitable for use on fire of classes A and B.

MS 657-3:2004 PORTABLE RECHARGEABLE FIRE EXTINGUISHERS – SPECIFICATION

Part 3: Foam type extinguishers (13 p) M

This standard specifies the characteristics of stored pressure, portable rechargeable fire extinguishers of the foam type, of capacity not exceeding 10 ℓ and suitable for use on a variety of identified classes of fire.

MS 657-4:2004 PORTABLE RECHARGEABLE FIRE EXTINGUISHERS – SPECIFICATION

Part 4: CO₂ type extinguishers (13 p) M

This Malawi Standard specifies the characteristics of portable rechargeable fire extinguishers of the CO₂ type, of capacity not exceeding 9 kg and suitable for use on fires of classes B and C.

MS 658-1:2004 THE CLASSIFICATION, USE AND CONTROL OF FIRE-FIGHTING EQUIPMENT – CODE OF PRACTICE

Part 1: Portable fire extinguishers (23 p) M

This part of the code of practice covers the classification, selection, installation and control of portable fire extinguishers (excluding non-refillable fire extinguishers) that can be carried by one person. It also covers the conditions under which mobile fire extinguishers may be used.

Part 2: Fire hose reels (4 p) M

This part of the code of practice covers the siting and site control of fire hose reels installed in premises.

MS 659:2002 PNEUMATIC TYRES FOR PASSENGER CARS AND LUGGAGE TRAILERS – SPECIFICATION (11 p) M

This standard applies to new pneumatic tyres primarily designed for use on vehicles of category M1, O1, and O2. It does not apply to tyres designed for speeds exceeding 240 km/h.

MS 660:2002 PNEUMATIC TYRES FOR COMMERCIAL VEHICLES AND TRAILERS – SPECIFICATION (12 p) M

This standard applies to new pneumatic tyres primarily designed for use on vehicles of category M2, M3, N1, N2, N3, O3 and O4; it does not however apply to:
Tyres of a speed category below 80 km/h; or
Tyres designed for cycles and motor cycles.

MS 663:2001 MIXED FRUIT JUICES – SPECIFICATION (4 p) M

It prescribes the requirements for mixed fruit juice which shall be obtained from two or more species of sound, ripe fruits.

MS 665:2001 MIXED FRUIT NECTARS – SPECIFICATION (4 p) M

Applies to mixed fruit nectars for direct consumption.

MS 666-1:2002 COMPONENTS OF PRESSURE PIPE SYSTEMS (PVC-U) – SPECIFICATION

Part 1: Unplasticized poly (vinyl chloride) (PVC-U) pressure pipes (33 p) M

This part of MS 666 specifies requirements for unplasticized poly (vinyl chloride) (PVC-U) pipes and injection-moulded fittings that are intended for above-ground pressure applications for the conveyance of portable water in reticulation systems and for other applications in which continuous temperatures in excess of 25 °C are not encountered. Minimum wall thicknesses are given, based on a design stress rating of 10 MPa for pipes of nominal outside diameter 90 mm or less and 12.5 MPa for pipes of nominal outside diameter 110 mm and more. Seven classes of pipes and three classes of fittings for reticulation systems are covered.

MS 666-2:2002 COMPONENTS OF PRESSURE PIPE SYSTEMS (PVC-U) – SPECIFICATION

Part 2: Modified poly (vinyl chloride) (PVC-M) pressure pipe systems (30 p) M

This part of MS 666 specifies requirements for modified unplasticized poly(vinyl chloride) (PVC-M) pipes (with integral joints that incorporate rubber sealing/ rings) and fittings (post-formed from pipe made of PVC-M) that are intended for above-ground and below-ground pressure applications for the conveyance of portable water in reticulation systems and for other applications, in which continuous temperatures in excess of 25 °C are not encountered. Minimum wall thicknesses based on a design stress rating of 18 MPa are given for pipes of normal outside diameter 50 mm to 630 mm. Six classes of pipe are covered, together with post-formed fittings and bends.
This part of MS 666 also includes requirements for the components of rubber joint rings. Fittings made by hot-gas and hot-plate fusion techniques are not covered in this part of MS 666.
MS 667-1:2002 PETROLEUM INDUSTRY – TERMINOLOGY

Part 1: Raw materials and products (12 p)

Consists of a list of English terms in use in the petroleum industry to indicate raw materials or petroleum products, together with the corresponding definitions.

MS 667-2:2002 PETROLEUM INDUSTRY – TERMINOLOGY

Part 2: Properties and tests (11 p)

The standard consists of a list of English terms in use in the petroleum industry to indicate properties of petroleum products and test methods, together with the corresponding definitions.

MS 670:2001 SODIUM SILICATE - SPECIFICATON (First edition) (12p)

This standard prescribes the requirements and methods of sampling and test for sodium silicate in solid and liquid forms intended for use in various industries.

MS 671:2002 TOILET SOAP (SUPERFATTED) – SPECIFICATION (4 p)

This specification covers superfatted toilet soap that incorporates unsaponified matter that imparts beneficial in-use characteristics.

The specification does not cover specialty soaps, such as soap for use by medical personnel, medicated soap, transparent soap and sea-water soap.

MS 675:2005 SAFETY PROCEDURES FOR THE DISPOSAL OF SURPLUS PESTICIDES AND ASSOCIATED TOXIC WASTE – CODE OF PRACTICE (22 p)

This code of practice covers the following aspects for the safe disposal of pesticides, pesticide waste and empty pesticide containers:

(a) General precautions to be taken during the use of pesticides;
(b) Directives for the disposal of pesticide waste;
(c) Directives for the decontamination and disposal of empty pesticide containers;
(d) Directives for the treatment of pesticide spillages and leakage, and the action to be taken in the case of fires and freight emergencies that involve pesticides.

MS 678:2013 DRINKING WATER QUALITY – CONTROL AND SURVEILLANCE OF WATER IN PUBLIC SUPPLY NET WORKS (second edition) (4p)

This standard defines the control and surveillance of water in public water supply networks; It also indicates the sample frequency and types of analysis required.

MS 682-1:2002 WATER QUALITY – SAMPLING

Part 1 – Guidance on the design of sampling programmes and sampling techniques (23 p)

This part of MS 682 sets out the general principles for, and provides guidance on, the design of sampling programmes and sampling techniques for all aspects of sampling water (including waste waters, sludges, effluents and bottom deposits).

It does not include detailed instructions for specific sampling situations, which are covered in the various other parts of MS 682. Also, it does not include microbiological sampling, which is covered in ISO 19458.
MS 682-3:2002 WATER QUALITY – SAMPLING (20p) V

Part 3: Guidance on the preservation and handling of water samples

This part of standard gives general guidelines on the precautions to be taken to preserve and transport all water samples including those for biological analyses but not those intended for microbiological analysis.

MS 682-4:2002 WATER QUALITY – SAMPLING (6 p) V

Part 4: Guidance on sampling from lakes, natural and man-made

This part of standard presents detailed principles to be applied to the design of sampling programmes, to sampling techniques and the handling and preservation of samples of water from natural and man-made lakes.

MS 682-5:2012 WATER QUALITY – SAMPLING (15p) V

Part 5: Guidance on sampling drinking water from treatment works and piped distribution systems.

This part of MS 682 establishes principles to the techniques of sampling water intended for human consumption.

MS 682-6:2012 WATER QUALITY – SAMPLING (12 p) V

Part 6: Guidance on sampling of rivers and streams

This standard sets out the principles to be applied to the design of sampling programmes, sampling techniques and the handling of water samples from rivers and streams for physical and chemical assessment.

MS 682-8:2012 WATER QUALITY – SAMPLING (10 p) V

Part 8: Guidance on sampling of wet deposition

This part of MS 682 provides guidance on the design of sampling programmes and the choice of instrumentation and techniques for the sampling of wet deposition. It does not cover measurement of the quantity of rain.

MS 682-11:2012 WATER QUALITY – SAMPLING (10p) V

Part 11: Guidance on sampling of groundwaters

This part of MS 682 provides guidance on the design of sampling programmes, sampling techniques and the handling of water samples taken from groundwater for physical, chemical and micro-biological assessment. It does not cover sampling related to the day-to-day operational control of groundwater abstractions for potable or other purposes, but is concerned with the general surveillance of groundwater quality. Because of the complexity of groundwater systems, many specific sampling applications will require specialist hydrogeological advice which cannot be detailed in this part of MS 682.
MS 682-12:2012 WATER QUALITY - SAMPLING (33p) V

Part 12: Guidance on sampling of bottom sediments

This part MS 682 provides guidance on the sampling of sedimentary materials from

– Inland rivers and streams;
– Lakes and similar standing bodies; and
– Estuarine and harbour areas.

MS 682-13:2013 WATER QUALITY - SAMPLING (16P) V

Part 13: Guidance on sampling sludge's from sewage and water treatment work.(16p)

This part of MS 682 gives guidance on the sampling of sludge from wastewater treatment works, water treatment works and industrial processes. It is applicable to all types of sludge arising from these works and also to sludge of similar characteristics, for example septic tank sludge. Guidance is also given on the design of sampling programmes and techniques for the collection of samples.

MS 682-16:2012 WATER QUALITY - SAMPLING (26P) V

Part 16: Guidance on biotesting of samples

This part of MS 682 gives practical guidance on sampling, pretreatment, performance and evaluation of waters in the context of biotesting. Information is given on how to cope with the problems for biotesting arising from the nature of the water sample and suitability of the test design.

MS 682-17:2012 WATER QUALITY – SAMPLING (9p) V

Part 17: Guidance on sampling suspended sediments

This part of MS 682 is applicable to the sampling of suspended solids for the purpose of monitoring and investigating freshwater quality, and more particularly to flowing freshwater systems such as rivers and streams. Certain elements of this part MS 682 may differ and are not necessarily covered here.

MS 682-19:2012 WATER QUALITY – SAMPLING (11p) V

Part 19: Guidance on sampling of marine sediments

This part of MS 682 provides guidance for the sampling of sediments in marine areas for analyses of their physical and chemical properties for monitoring purposes and environmental assessments.

MS 682-21:2012 WATER QUALITY – SAMPLING V

Part 21: Guidance on sampling of drinking water distributed by tankers or means other than distribution pipes.(13p)

Part 21: Guidance on sampling of drinking water distributed by tankers or means other than distribution pipes

This part of MS 682 establishes principles to be applied to the techniques of sampling water provided for drinking and for use in the manufacture of food and beverage products.
**MS 684:2003** WATER TAPS (METALLIC BODIES) – SPECIFICATION (13 p) M

This standard covers requirements for four classes of screw-down and non-screw-down metallic water taps (including stop taps) for the supply of water at temperatures not exceeding 75°C. It also covers stopcocks of sizes up to and including 50 mm. It does not cover thermostatic mixer taps, single control mixer taps, metering taps, demand taps or taps of which the bodies are made entirely of a plastics material.

**MS 685:2003** WC FLUSHING CISTERNS – SPECIFICATION (8 p) M

This standard covers requirements for hand operated high-level, low-level, near-level and close-coupled cisterns of various flushing capacities and that are designed for a single-flush operation, a dual-flush operation or an interruptible-flush operation.

**MS 686:2003** AUTOMATIC SHUT OFF FLUSH VALVES FOR WATER CLOSETS FOR URINAL – SPECIFICATION (6 p) M

This standard covers the requirements for Automatic shut-off flush valves for water closets and urinals that are intended for supplying a pre-set amount of water.

**MS 688:2004** UNPLASTICIZED POLY (VINYL CHLORIDE) (PVC-U) SOIL, WASTE AND VENT PIPES AND PIPE FITTINGS – SPECIFICATION (31 p) M

This standard covers unplasticized poly(vinyl chloride) (PVC-U) pipes (including vent pipes) and pipe fittings of nominal sizes 40-160 mm intended for above-ground non-pressure applications for the conveyance of soil (human excrement or faeces) and waste water where continuous temperatures in excess of 60 °C are not encountered.

**MS 689:2004** THE INSTALLATION OF POLYETHYLENE AND POLY (VINYL CHLORIDE) (PVC-U) AND (PVC-M) PIPES – CODE OF PRACTICE (29 p) M

This Malawi Standard is intended to present (in sufficient details for general use) the comparative physical, chemical, and mechanical properties of two types of plastics pipe in common use, to provide guidance in their selection for the conveyance of portable water (and other applications) and to define sound practice in the assembly and installation of such pipework.

**MS 691:2005** TOLERANCE LIMITS FOR DOMESTIC SEWAGE EFFLUENTS DISCHARGED INTO IN LAND SURFACE WATERS – SPECIFICATION (2p) M

This standard lays down the tolerance limits for sewage effluents discharged into inland surface waters. It does not cover sewage effluents discharged on land.

**MS 695:2004** BATTERY-BASED PHOTOVOLTAIC (PV) SOLAR HOME SYSTEMS – SPECIFICATION (5 p) M

This Malawi Standard specifies the practical minimum requirements for a battery based photovoltaic (PV) system.

**MS 696:2004** BATTERY-BASED PHOTOVOLTAIC (PV) SOLAR HOME SYSTEMS – CODE OF PRACTICE (21 p) M

This code of practice specifies the guideline on how a battery based photovoltaic (PV) system should be designed for the system to continue working for a period of between three to five years without problems.
MS 697:2005  INDUSTRIAL NOISE AFFECTING MIXED RESIDENTIAL AND INDUSTRIAL AREA – METHOD FOR RATING (9 p) V

The standard describes methods for determining, at the outside of the building:

a) noise levels from factories, industrial premises or fixed installation and sources of an industrial nature in commercial premises; and

b) background noise level.

MS 699:2004  BOTTLED DRINKING WATERS OTHER THAN NATURAL MINERAL WATER – SPECIFICATION (8p) M

This Malawi standard specifies the description, treatment, testing, packaging and labelling of water that is not natural mineral water. The water may be offered as packaged non-carbonated (“still”) water or as packaged carbonated (“sparkling”) water, with or without permitted substances.

MS 700:2002  SOCIAL RESPONSIBILITY – REQUIREMENTS FOR COMBATING CHILD LABOUR (6 p) V

This Malawi Standard specifies requirements of a work environment where an organization

a) Aims to combat or eliminate child labour through the development, maintenance and enforcement of relevant policies, procedures and practices;

b) Needs to demonstrate to interested parties that policies, procedures and practices of the organization are in conformity with the requirements of this standard.

The requirements of this standard shall apply to all industrial labour regardless of size or location of the organization. The standard however does not apply to domestic labour.

MS 701:2005  NATURAL MINERAL WATER-CODE OF PRACTICE (first edition) (7p) M

This standard recommends general hygiene and technical practices for use in collecting natural mineral water, its treatment, bottling and packaging, storage, transport, distribution and sale for direct consumption so as to ensure a safe, healthy and wholesome product.

MS 702:2004  CAUSTIC SODA, ANALYTICAL AND COMMERCIAL – SPECIFICATION (13 p) M

This Malawi Standard prescribes the requirements, methods of test and sampling requirements for caustic soda, analytical and commercial in the solid and lye forms

MS 704:2004  CASSAVA AND MAIZE STARCH FOR TEXTILE INDUSTRY – SPECIFICATION (4 p) M

This Malawi Standard covers cassava and maize starch used in the textile industry (mainly cotton) as a textile sizing and finishing material. Cassava starch shall mean the starch obtained from tubers of cassava (Manihot esculenta).

MS 707:2004  STARCHES AND DERIVED PRODUCTS – METHODS OF TEST (16 p) V

This standard covers general methods of test for starches and its derived products

Physical and chemical methods of test for edible starches and starch products are covered in MS 705 and MS 706 respectively.
MS 708:2004  STARCH AND STARCH PRODUCTS – METHODS OF SAMPLING (3 p) V

This Malawi Standard prescribes the sampling apparatus and the methods of sampling, for starches and starch products.

MS 709:2005  FLUORESCENT LIGHTS FOR USE IN PHOTOVOLTAIC (PV) SYSTEMS – SPECIFICAITON (4p) M

This Malawi Standard specifies the minimum requirements for fluorescent tube lights powered with direct current (DC) inverter ballasts for use in photovoltaic PV) systems.

MS 710:2005  SECONDARY CELLS AND BATTERIES FOR SOLAR PHOTOVOLTAIC (PV) ENERGY SYSTEMS – GENERAL REQUIREMENTS AND METHODS OF TEST (8 p) M

This Malawi Standard gives general information relating to the requirements of the secondary batteries used in photovoltaic (PV) solar energy systems and to the typical methods of test used for the verification of battery performances.
This Malawi Standard does not include specific information relating to battery sizing, method of charge or PV system design.

MS 711:2005  CRYSTALLINE SILICON TERRESTRIAL – PHOTOVOLTAIC (PV) MODULES – DESIGN QUALIFICATIONS AND TYPE APPROVAL (29p) M

This Malawi Standard lays down requirements for the design qualification and type approval of terrestrial photovoltaic (PV) modules suitable for long-term operation in general open-air climates, as defined in IEC 60721-2-1. It applies only to crystalline silicon types. Standards for thin-film modules are not covered in this Malawi Standard.

MS 712-1:2005  ACOUSTICS – RECOMMENDED PRACTICE FOR THE DESIGN OF LOW NOISE AT WORKPLACES CONTAINING MACHINERY

Part 1: Noise control strategies (21p) V

This part of MS 712 outlines strategies to be used in dealing with noise problems in existing and planned workplaces by describing basic concepts in noise control (noise reduction, noise emission, noise emission and noise exposure). It is applicable to all types of workplaces and all types of sources of sound which are met in workplaces, including human activities.

It includes those important strategies to adopt when buying a new machine or equipment.

This part of MS 712 deals only with audible sound.

MS 712-2:2005  ACOUSTICS-RECOMMENDED PRACTICE FOR THE DESIGN OF LOW NOISE AT WORKPLACES CONTAINING MACHINERY

Part 2: Noise control measures (24p) M

This part of MS 712 deals with the technical aspects of noise control in workplaces. The various technical measures are stated, the related acoustical quantities described, the magnitude of noise reduction discussed and the verification methods outlined.

This part of MS 712 deals only with audible sound.
MS 712-3:2005 ACOUSTICS-RECOMMENDED PRACTICE FOR THE DESIGN OF LOW NOISE AT WORKPLACES CONTAINING MACHINERY

Part 3: Sound propagation and noise prediction in workrooms (25p) V

In this part of MS 712, sound propagation in a room is considered together with the prediction of sound pressure levels and of noise emission at the workplace.

Details of the description of the physical phenomena involved in a noise prediction scheme are strongly dependent on the situation being considered and the way this situation is modelled (input parameters, calculation techniques). This dependency is surveyed and the methodology of noise prediction is described. Recommendations are provided concerning the use of noise prediction methods are given in Annexes A to E.

MS 713:2005 PLASTIC PRODUCTS – GUIDELINES FOR SAFE MANAGEMENT AND DISPOSAL (12 p) M

This standard outlines general guidance on the identification, environmentally sound management of plastic wastes and their disposal.

MS 714:2005 OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT SYSTEMS – SPECIFICATION (8 p) V

This standard gives requirements for an occupational health and safety (OS&H) management system, to enable an organization to control its OS&H risks and improve its performance. It does not state specific OS&H performance criteria, nor does it give detailed specifications for the design of a management system.

MS 717:2005 POLYPROPYLENE GRAIN SACKS – SPECIFICATION (11 p) M

This standard covers the requirements for three sizes of thermoplastic textile bags, namely 50kg, 70 kg and 90 kg bags, made from (slip) resistant tubular woven fabric (of which polypropylene yarns are the major component) and that are suitable for use for the handling, transportation, and storage of whole grain and milled grain.


This standard provides guidelines for classification, management, treatment and disposal of hazardous waste. Requirements for transportation are also specified.

MS 720-2:2011 PACKAGING OF DANGEROUS GOODS - PACKAGING AND LARGE PACKAGING FOR ROAD AND RAIL TRANSPORT (25p) (M)

Part 2: Large packaging

This standard identifies the various types of large packaging that are suitable for the transport of dangerous goods by road and rail. It describes minimum performance requirements for the large packaging, the procedures to be followed to obtain approval from test stations or certification authorities and gives details of the marking and labelling to be displayed on the large packaging.

MS 721:2005 WOOD PACKAGING MATERIAL – GUIDELINES FOR PHYTOSANITARY MEASURES (6p)M

This standard describes phytosanitary measures to reduce the risk of introduction and/or spread of quarantine pests associated with wood packaging material (including dunnage), made of coniferous and non-coniferous raw wood, for use in national and international trade.
LABELLING, PRESENTATION AND ADVERTISING OF PREPACKED GOODS FOR ULTIMATE CONSUMER (5 p) M

This standard specifies requirements for providing information regarding pre-packed goods. It sets rules of a general nature applicable to all pre-packed goods put on the market.

CORRUGATED BOARD CONTAINERS – SPECIFICATION (9 p) M

This specification covers requirements for the materials and construction of corrugated board containers.

STAPLES FOR OFFICE USE – SPECIFICATION (30p) M

This specification covers pre-formed staples for use in standard-duty office stapling machines.

OFFICE STAPLERS – SPECIFICATION (5 p) M

This specification covers the requirements for two types of general purpose hand operated staplers (using size 26/6 staples complying with MS 726) suitable for use either on a desk or held in the hand, and suitable for severe or moderate service.

PAPER CLIPS – SPECIFICATION (4p) M

This specification covers steel wire clips intended for clipping together sheets of paper.

PAPER PUNCHES (DESK TOP TYPES) – SPECIFICATION (8 p) M

This standard covers the requirements for three grades of paper punches in two-hole and four hole configuration, suitable for use on desk tops.

SOLID WASTE DISPOSAL SITES, GUIDELINES FOR DESIGN – CODE OF PRACTICE (10 p) M

The standard prescribes guidelines for design of solid waste disposal sites taking the form of landfill, and treatment and incineration facilities.

SOLID WASTE DISPOSAL SITES. GUIDELINES FOR SAFE MANAGEMENT – CODE OF PRACTICE (13 p) M

The standard prescribes guidelines for safe management of solid waste disposal sites in the form of landfills, land treatment facility and incinerators.

EFFLUENT TREATMENT PLANTS – OPERATING CONDITIONS (CODE OF PRACTICE) (7 p) M

This standard covers the operating conditions for an effluent treatment plant. It does not cover to detail the design parameters of an effluent treatment plant.

BOREHOLE AND SHALLOW WELL WATER QUALITY – SPECIFICATION (4 p) M

This Malawi Standard specifies requirements for untreated or raw ground water in borehole and shallow wells suitable for human consumption and all usual domestic purposes.

It does not apply to other sources of ground water. It also does not cover ground water used for agricultural purposes.
MS 734:2013  PLASTIC CARRIER BAGS AND FLAT BAGS – SPECIFICATION (3 p) M sec Ed.

This standard specifies requirements for carrier bags and flat bags that are made from thermoplastic materials and are domestically produced or imported for use within Malawi.

MS 735:2006  PLASTIC – FILM AND SHEETING – DETERMINATION OF AVERAGE THICKNESS LENGTH AND WIDTH (4 p) V

This standard specifies the method for the determination of the gravimetric thickness of a sample of plastics film or sheeting (see section 2).

MS 736:2011  TRANSPORTATION OF DANGEROUS GOODS – INTERMEDIATE BULK CONTAINERS FOR ROAD AND RAIL TRANSPORT (47 p) M

This standard establishes the requirements for various types of intermediate bulk container (IBC) suitable for the transport of dangerous goods by road and rail. It describes minimum performance requirements for the IBCs, the procedures to be followed to obtain approval from testing or certification authorities and gives details of the marking and labelling to be displayed on the IBCs.

MS 737:2011  INDUSTRIAL EMISSIONS – EMISSIONS FROM MOBILE STATIONERY SOURCES - SPECIFICATION (30 p) M

This standard specifies maximum allowable limits for particulate matter and other common air pollutants in gaseous emissions from stationary and mobile sources. The standard also suggests the mechanisms for reduction or removal of the pollutants.

MS 739:2005  WORKPLACE AIR – DETERMINATION OF MASS CONCENTRATION OF CARBON MONOXIDE- METHOD USING DETECTOR TUBES FOR SHORT-TERM SAMPLING WITH DIRECT INDICATION (5 p) V

This Malawi standard specifies a method for the determination of mass concentration of carbon monoxide present in the air at work places in concentrations greater than 10mg/m³ using detector tubes.

MS 740:2005  AMBIENT AIR - METHODS OF SAMPLING AND TEST (88 p) V

This standard specifies methods of test for air pollution in ambient air.

MS 742:2005  WORKPLACE AIR- DETERMINATION OF PARTICULATE LEAD AND LEAD COMPOUNDS –FLAME OR ELECTROTHERMAL ATOMIC ABSORPTION SPECTROMETRIC METHOD (20 p) V

This standard specifies flame and electrothermal atomic absorption spectrometric methods for the determination of the –weighted average mass concentration of particulate lead and lead compounds in workplace air.

MS 743:2009  CANNED BABY FOODS- SPECIFICATION (first edition) (4p) M

This standard specifies requirements for baby foods intended primarily for use during the normal infant’s weaning period and also for the progressive adaptation of infants and children to ordinary food. They may be either in ready-to-eat form or in dry form requiring reconstitution with water or other suitable liquid. Do not include products covered by the Malawi Standard for Infant Formula (ms 541) or by the Malawi Standard for High protein baby foods (MS 90)
MS 744:2007  USE OF DAIRY TERMS – GENERAL STANDARDS (2p) V
This Malawi Standard applies to the use of dairy terms in relation to food to be offered to the consumer or for further processing.

MS 745:2014  MAYONNAISE – SPECIFICATION (4 p) M
This Malawi standard prescribes the requirements for mayonnaise as described in clause 3.

MS 747:2010  FRUIT FLAVOURED DRINKS - SPECIFICATION (3 p) M
This Malawi Standard prescribes the requirements and methods of test for fruit flavoured drinks. It covers fruit flavoured drinks made from natural or synthetic colourings, flavourings, emulsions, water, sugar and other permitted optional ingredients. It also applies to products referred to as fruit flavoured cordials.

MS 748:2007  SOYA BEAN MILK AND DRINK – SPECIFICATION (First edition) (13p) M
This standard specifies the requirements and methods of sampling and test for soya bean milk and drink for human consumption.

MS 749-1:2014 STORAGE OF CEREALS AND PULSES
Part 1: General recommendations for the storage of cereals (19p) M
This part of MS 749 gives general guidance related to the problems of storing cereals. Other aspects of the storage of cereals are dealt with in MS 749-2 and MS 749-3.

MS 749-2:2013 STORAGE OF CEREALS AND PULSES
Part 2: Pesticides recommendation (8p) M
This part of MS 749 gives guidance on the choice of a method of storage of cereals and pulses, and on the practical recommendations for good storage, according to the method chosen. Other aspects of storage of cereals and pulses are dealt with in MS 749-1 and MS 749-3.

MS 749-3:2013 STORAGE OF CEREALS AND PULSES
Part 3: control of attack pest (7p) M
This part of MS 749 gives guidance on means of controlling attack by pests on cereals and pulses during storage.

MS 751:2006  SWEETENED CONDENSED MILK – SPECIFICATION (3p) M
This Malawi standard applies to sweetened condensed milk, intended for direct consumption or further processing.

MS 752:2006  EVAPORATED MILKS – SPECIFICATION (3p) M
Applies to evaporated milks, intended for direct consumption or further processing, in conformity with the description in clause 3 of this Malawi Standard.

MS 753:2008  RAISINS – SPECIFICATION (5p) M
This standard applies to dried grapes of varieties conforming to the characteristics of Vitis vinifera L. which have been suitably treated or processed and which are offered for direct consumption as raisins or sultanas. It also covers raisins packed in bulk containers which are intended for repacking into consumer size containers. This standard does not include a similar dried vine fruit known as dried currant.
MS 754:2013  PROCESSED CEREAL BASED FOODS FOR INFANTS AND YOUNG CHILDREN - SPECIFICATION (8p) M

This Malawi Standard covers processed cereal-based foods intended for feeding infants generally from the age of six months onwards as a complementary food, taking into account infant’s individual nutritional requirements, and for feeding young children as part of a progressively diversified diet.

MS 755:2007  GYPSUM ROCK FOR THE MANUFACTURE OF BINDERS – SPECIFICATION (4p) M

This standard gives the specifications for gypsum rock used as raw materials for the manufacture of calcium sulphate binders or as an admixture in the manufacture of other kinds of binders.

MS 756:2007  GYPSUM CORE CORNICE – SPECIFICATION (5p) M

This specification covers gypsum core cornice for use in buildings.

MS 758:2006  DOMESTIC SOLAR WATER HEATERS – SPECIFICATION (10p) M

Specifies the characteristics of domestic solar water heaters.

MS 759:2006  SOLAR WATER HEATERS – CODE OF PRACTICE (19 p) M

This code covers the construction and installation for solar water heater systems.

MS 760:2006  DOMESTIC SOLAR WATER HEATERS – MECHANICAL QUALIFICATIONS TESTS (3 P) M

Specifies test methods for the mechanical qualification of domestic solar water heating systems.

MS 761-1:2006 DOMESTICE SOLAR WATER HEATERS

Part 1: Thermal performance using an out door test (10 p) M

Describes an outdoor test method for the determination of the thermal performance of domestic solar water heaters.

MS 761-2:2006 DOMESTICE SOLAR WATER HEATERS

Part 2: Thermal performance using an in door test (4p) M

Specifies an indoor test method for the determination of the thermal performance of domestic solar water heating systems for potable water and of storage capacity not exceeding 0,3 m³.

MS 767:2006  CORRUGATED BOARD CONTAINERS – METHODS OF TEST (14p) V

This standard prescribes methods of test for corrugated board containers.

MS 768:2006  LINERS- SPECIFICATION (7p) M

This specification covers liners of nominal grammage in the range 120-180g/m² and fluting of nominal grammage in the range 112-180g/m² that are used in the manufacture of corrugated containers for packaging purposes.
MS 769:2007 MEAT BURGERS – SPECIFICATION (4 p) M

This Malawi standard prescribes the requirements and methods of sampling for meat burgers made from comminuted meat (beef, lamb and mutton, poultry, pork)

MS 770:2007 FRESH FISH – SPECIFICATION (3p) M

This Malawi standard establishes quality requirements for fish and permissible temperatures and times for the handling, preparation, distribution and packaging of fresh fish.

MS 771:2014 CHOCOLATE AND CHOCOLATE PRODUCTS-SPECIFICATION first edition (7p) M

This Malawi Standard applies to chocolate and chocolate products intended for human consumption and listed in clause 4 of this standard. Chocolate products shall be prepared from cocoa and cocoa materials with sugars and may contain sweeteners, milk products, flavouring substances and other food ingredients.

MS 773:2006 METROLOGICAL AND TECHNICAL REQUIREMENTS FOR NON-AUTOMATIC UNDENOMINATED BEAM SCALES AND BALANCES SUBJECT TO LEGAL METROLOGY CONTROL (4 p) M

This Malawi Standard specifies the metrological and technical requirements for non-automatic, undenominated beam scales and balances that are subject to metrological control in terms of legal metrology legislation.

MS 774:2006 METROLOGICAL AND TECHNICAL REQUIREMENTS FOR NON-AUTOMATIC, NON-SELF OR SEMI-SELF INDICATING UNGRADUATED COUNTER SCALES SUBJECT TO LEGAL METROLOGY CONTROL (4 p) M

This Malawi Standard specifies the metrological and technical requirements for non-automatic, non self- or semi-self indicating, ungraduated, and vibrating counter scales that are subject to metrological control in terms of legal metrology legislation.

MS 775-1:2007 HOT ROLLED STEEL BARS

Part 1: Dimensions of round bars (2p) M

Specifies dimensions of metric series hot-rolled steel round bars.

MS 775-2:2007 HOT ROLLED STEEL BARS

Part 2: Dimensions of square bars (2p) M

Specifies dimensions of metric series hot-rolled steel square bars.

MS 775-3:2007 HOT ROLLED STEEL BARS

Part 3: Dimensions of flat bars (2p) M

Specifies dimensions of metric series hot-rolled steel flat bars.

MS 775-4:2007 HOT ROLLED STEEL BARS

Part 4: Tolerances of round, square and flat bars – metric series (4p) M

Specifies dimensional tolerances applicable to hot-rolled steel bars supplied in straight lengths in the following product forms

© 2017 Catalogue of Malawi standards
(a) round bars (for dimensions, see MS 775-1);
(b) square bars (for dimensions, see MS 775-2);
(c) hexagonal bars;
(d) octagonal bars; and
(e) flat bars (for dimensions, see MS 775-3)

**MS 777:2007 STABILIZED SOIL BLOCKS – SPECIFICATION (11p) M**

This Malawi standard specifies the requirements for cement and /or stabilized soil blocks for use in super structures.

**MS 779:2007 SOLAR PHOTOVOLTAIC (PV) WIND HYBRID SYSTEM – SPECIFICATION (10 p) M**

Covers minimum requirements for domestic stand alone solar photovoltaic (pv)-wind hybrid systems.

**MS 780:2007 SOLAR PHOTOVOLTAIC (PV) WATER PUMPING SYSTEM – SPECIFICATION (15p) M**

Covers specifications for solar photovoltaic (PV) water pumping systems for domestic use

**MS 782-1:2011 GLASS IN BUILDING – BASIC SODA LIME SILICATE GLASS PRODUCTS**

Part 1: Definitions and general physical and mechanical properties (4.p) M

This Malawi standard defines and classifies basic glass products, indicates their chemical composition, their main physical and chemical characteristics and defines their general quality criteria.

**MS 782-2:2011 GLASS IN BUILDING – BASIC SODA LIME SILICATE GLASS PRODUCTS (6p)**

Part 2: Float glass M

This part of MS 782 specifies dimensional and minimum quality requirements (in respect of optical and visual faults) for float glass, as defined in MS 782-1, for use in building.


Part 3: Polished wire glass M

This part of MS 782 specifies dimensional and minimum quality requirements (in respect of optical and visual and wire faults) for polished wire glass, as defined in MS 782-1, for use in building.

**MS 782-4:2011 GLASS IN BUILDING – BASIC SODA LIME SILICATE GLASS PRODUCTS (4.p) M**

Part 4: Drawn sheet glass (4 p) M

This part of MS 782 specifies dimensional and minimum quality requirements (in respect of optical and visual and wire faults) for drawn sheet glass, as defined in MS 782-1, for use in building
MS 782-5:2011 GLASS IN BUILDING – BASIC SODA LIME SILICATE GLASS PRODUCTS

Part 5: Patterned glass (6 p) M

This part of MS 782 specifies dimensional and minimum quality requirements (in respect of optical and visual faults) for patterned glass, as defined in MS 782-1, for use in building.

MS 785-1:2008 STEEL FOR THE REINFORCEMENT OF CONCRETE

Part 1: Plain bars (8 p) M

This part of MS 785 specifies technical requirements for plain bars to be used as reinforcement in concrete.

MS 785-2:2008 STEEL FOR THE REINFORCEMENT OF CONCRETE

Part 2: Ribbed bars (19 p) M

This part of MS 785 specifies technical requirements for ribbed bars to be used as reinforcement in concrete.

MS 785-3:2008 STEEL FOR THE REINFORCEMENT OF CONCRETE

Part 3: Welded fabric (8p) M

This part of MS 785 specifies technical requirements for factory made sheets or rolls of welded fabric, manufactured from steel wires or bars with diameters from 4 mm to 16 mm and designed for the reinforcement of concrete structures and the ordinary reinforcement of prestressed concrete structures.

MS 786:2008 CIGARETTES – SPECIFICATON (First edition) (7p) M

This standard specifies the requirements and the methods of sampling and test for cigarettes processed or sold in Malawi.

MS 787:2007 TOBACCO AND TOBACCO PRODUCTS – METHODS OF TEST (43 p) V

This standard prescribes the methods of test commonly used for testing of tobacco and tobacco products.

MS 789-1:2009 SAFETY AND SECURITY GLAZING MATERIALS FOR BUILDINGS PART1: SAFETY PERFORMANCE UNDER HUMAN IMPACT (first ed) (18p) M

This part of MS 789 covers requirements for the performance of safety glazing materials in buildings with regard to injuries (cutting or piercing) sustained on human impact.

MS 789-2:2009 SAFETY AND SECURITY GLAZING MATERIALS FOR BUILDINGS

Part 2: Burglar- resistant and vandal-resistant glazing materials (5p) M

This part of MS 789 covers requirements for the performance of burglar-resistant glazing materials intended for use in areas of buildings that may be subjected to manual attack.

MS 789-3:2009 SAFETY AND SECURITY GLAZING MATERIALS FOR BUILDINGS PART 3: BULLET-RESISTANT GLAZING MATERIALS (first ed) ( 8p ) M

This part of MS 789 covers requirements for the performance of bullet resistant glazing materials intended for use in areas of buildings that may be subjected to attack by firearms.
MS 793-1:2013 THE STRUCTURAL USE OF STEEL (89p) M

Part 1: Limit-state design of hot rolled steelwork

This standard provides rules and requirements for the design, fabrication and erection of steel structures. The design is based on limit states. The term "steelwork" refers to structural members and frames that consist primarily of hot-rolled structure steel components, and includes the detail parts, welds, bolts, fasteners and other items required in fabrication and erection. This standard also applies to structural steel components in structures framed in other materials.

MS 794-1:2011 THE STRUCTURAL USE OF CONCRETE (168p) M

Part 1: Design

This part of Malawi Standard establishes principles for the structural use of concrete under the following stipulations:

a) methods of design: limit states classified as ultimate limit state and serviceability limit states;
b) material: ordinary concrete of normal and low density, used in reinforced, prestressed and precast structures or elements and in plain concrete walls;
c) types of structures: buildings and structures in which all load-bearing elements (e.g. slabs, columns, walls, beams etc.) are of concrete

MS 798:2009 INSTANT NOODLES – SPECIFICATION (First edition) (7p) M

This standard applies to various kinds of noodles. The instant noodle may be packed with noodle seasonings, or in the form of seasoned noodle and with or without noodle garnish (s) in separate pouches, or sprayed on noodle and ready for consumption after dehydration process. This standard does not apply to pasta.

MS 801:2010 HONEY – METHODS OF TEST (21p) M

This Malawi standard prescribes the methods of test for the analysis of honey.

MS 802:2009 CHEDDAR – SPECIFICATION (5p) M

This standard applies to cheddar intended for direct human consumption or further processing in conformity with the description in clause 3 of this standard

MS 804:2015 CODE OF HYGIENIC PRACTICE FOR GROUNDNUTS (14p) M

This code of hygienic practice applies to groundnuts, also known as peanuts or earth nuts (Arachis hypogaea)

MS 805:2009 BIODIESEL FUEL – SPECIFICATION (First edition) (10p) M

This Malawi Standard specifies requirements and test methods for marketed and delivered biodiesel to be used either as automotive fuel for diesel engines at 100% concentration, or as an extender for automotive fuel for diesel engines.

At 100% concentration it is applicable to fuel for use in diesel engine vehicles designed or subsequently adapted to run on 100% biodiesel.

MS 807:2011 LUNCHEON MEAT – SPECIFICATION (First edition) (5p) M

This Malawi Standard applies to products designated as “Luncheon meat” which have been packed in any suitable packing material.
MS 808:2011 COOKED CURED CHOPPED MEAT – SPECIFICATION (First edition) (5p) M

This Malawi Standard applies to products designated as “chopped meat” which have been packed in any suitable packaging material.

MS 809:2011 UHT MILK – SPECIFICATION (First edition) (7p) M

This Malawi Standard specifies the requirements and methods of sampling and tests for UHT milk.

MS 811:2009 POTATO CRISPS - SPECIFICATION (First edition) (8p) M

This standard specifies requirements for potato crisps made from tubers of the potato (Solanum tuberosum L.)

MS 812:2012 BOTTLED DRINKING WATER OTHER THAN NATURAL MINERAL WATER-CODE OF PRACTICE (8p) M

This code recommends general techniques for collecting, processing, packaging, storing, transporting, distributing, and offering for sale a variety of drinking waters (other than natural mineral water) for direct consumption. A bottled/packaged drinking water other than nature mineral water are covered by this code. This code does not cover recommendations for collecting, processing and marketing of natural mineral water.

MS 813:2009 SULPHURIC ACID FOR USE IN LEAD-ACID BATTERIES - SPECIFICATION (First edition) (17p) M

This standard specifies the limit for impurities in sulphuric acid suitable for use in lead-acid batteries.

MS 815:2010 ORGANIC PRODUCTS - GENERAL STANDARD (37 p) V

This standard provides general requirements for organic agricultural products. It covers care for the environment, plant production, livestock production, beekeeping, the collection of wild organic products and the processing and labelling and verification (inspection and certification) of the product there from. It does not apply to wild mushrooms.

MS 816:2011 DAIRY FAT SPREADS - SPECIFICATION (3p) M

This Malawi standard applies to dairy fat spreads intended for use as spreads for direct consumption or for further processing.

MS 817:2011 DRIERS FOR PAINTS AND VANISHES-SPECIFICATION (5p) M

This Malawi Standard specifies requirements and methods of sampling and test for solid and liquid dries for paints, varnishes and related products. The requirements relate to dries in solid or liquid form.

MS 819-1:2014 TITANIUM DIOXIDE PIGMENTS FOR PAINTS

Part 1: specifications and methods of test (10p) V

This part of MS 819 specifies the requirements and corresponding methods of test for titanium dioxide pigments for paints.
MS 820:2010 CODE OF PRACTICE FOR DESIGN LOADINGS FOR BUILDINGS (first edition) (49p) M

The aim of this code is to provide general structural design procedures and minimum design loads to be used in the design of buildings and their structural elements. This code does not cover dynamic loading due to plant and machinery nor loads incidental to construction methods.

MS 822:2010 ROAD VEHICLES – INSPECTION AND TESTING OF IMPORTED USED MOTOR VEHICLES (17 p) M

This Malawi standard specifies the safety related performance characteristics of used motor vehicles and their inspection and tests for roadworthiness.

MS 823:2011 DRIERS FOR PAINTS AND VARNISHES-METHOD OF TEST (17p) V

This Malawi standard specifies methods of test for driers for paints, varnishes and related products. Some methods of test apply to driers in solid form only while others apply to driers in liquid form only and while yet others apply to both solid driers and liquid driers.

MS 833:2013 THERMOSTATS FOR ELECTRIC STORAGE WATER HEATERS-SPECIFICATION (10p) V

This Malawi Standard covers two types of thermostats that have contact breakers of the air-break type, for use in thermostatically controlled electric storage water heaters. The thermostats are intended for use in circuits at voltages not exceeding 240 V between phase and neutral and current ratings not exceeding 30 A.

MS 834:2013 ENERGY REGULATORS FOR ELECTRIC HEATING UNITS-SPECIFICATION (8p)

This Malawi Standard specifies requirements for energy regulators for electric heating units for household and similar use. It covers class 1 and II regulators that have rated currents not exceeding 20 A and that are suitable for use in a.c circuits for substantially resistive loads with a power factor not less than 0.95 at voltage between 220 V and 240 V between phase and neutral conductors.

MS 837:2011 QUICK FROZEN FISH FILLETS-SPECIFICATION (6p) M

This Malawi Standard provides requirements for quick frozen fillets of fish as defined below and offered for direct consumption. It does not apply to products indicated as intended for further processing or for other industrial purposes.

MS 838:2011 CONCRETE WORKS - CODE OF PRACTICE FOR MINOR WORKS (First edition) (16 p)

This Malawi Standard covers concrete works in foundations, slabs, stairways, masonry walls, pipelines, manholes, latrines, conservancy tanks, septic tanks and the like, where the design and supervision of plain, reinforced and precast concrete are not necessarily under the direct control of appropriately qualified engineers and technologists and no special finishes to the concrete are required.

MS 839:2013 QUICK FROZEN SHRIMPS OR PRAWNS-SPECIFICATION (6p) M

This Malawi Standard provides requirements for quick frozen raw or partially or fully cooked shrimps or prawns peeled or unpeeled.

MS 840:2011 ABOVE-GROUND STORAGE TANKS FOR PETROLEUM PRODUCTS. (58p) M

This standard contains recommendations for the above-ground storage and handling of petroleum products at consumer installations with a total storage capacity not exceeding 200 m$^3$
MS 841:2011  D-IRON BRACKET AND INSULATOR ASSEMBLY - CHARACTERISTICS AND TEST METHOD (12p) M

This Malawi standard specifies the requirements of D-iron bracket galvanized complete with bolt and nut with ceramic insulator assemblies for a,c overhead lines. Electrical, mechanical and dimensional characteristics are covered in this standard.

MS 842:2011  AGGREGATES FROM NATURAL SOURCES - AGGREGATES FOR CONCRETE - REQUIREMENTS AND TEST METHODS (13p) M

This standard specifies requirements and test methods for fine and coarse aggregates from natural sources for use in concrete.

MS 843:2013  CODE OF PRACTICE FOR THE PREVENTION AND REDUCTION OF AFLATOXIN CONTAMINATION IN GROUNDNUTS (7P) M

This Malawi Standard provides guidance for all interested parties producing and handling groundnuts for human consumption, and all other users feeding into the food chain. All groundnuts should be prepared and handled in accordance with MS 21, which is relevant for all foods being prepared for human consumption. This code of practice indicates the measures that should be implemented by all persons that have the responsibility for assuring that food is safe and suitable for consumption, in order to prevent or reduce aflatoxin contamination in groundnuts.

MS 844:2011  COAL MINING AND PROCESSING - HEALTH SAFETY, AND ENVIRONMENTAL PROTECTION – CODE OF PRACTICE (15 p) M

This Malawi Standard covers the requirements for the health and safety for the workers and the general public and the environmental protection in the mining and processing of coal.

MS 845-2:2011  TRANSPORT OF DANGEROUS GOODS - EMERGENCY INFORMATION SYSTEMS

Part 2: Emergency information system for rail transport (15 p) M

This part of MS 845 covers the rules and procedures that govern the implementation of an emergency information system for rail transportation of dangerous goods, in quantities that exceed the exempt quantity.

MS 845-3:2011  TRANSPORT OF DANGEROUS GOODS - EMERGENCY INFORMATION SYSTEMS

Part 3: Emergency response guides (5p) M

This part of MS 845 covers standard procedures of initial response, in the form of Emergency Response Guides (ERGs) that are to be followed by a first responder upon arrival at the scene of an incident that involves the transport of materials that are classified as dangerous goods in accordance with MS 848. The ERGs are intended to be used by the first responder or by the emergency services until more detailed information on the properties of each material and its treatment becomes available. An ERG is compiled for a group of materials that share the same emergency response. ERGs facilitate the early assessment of the potential hazards and indicate the response that should be taken to mitigate the incident.

MS 846:2014  STRUCTURE TIMBER –MACHINE STRENGTH GRANDING-BASIC PRINCIPLES (21p) M

This Malawi standard establishes the basic principles for rules and procedures governing the machine sorting of timber for use in structural application.
MS 847:2011 TRANSPORT OF DANGEROUS GOODS OPERATIONAL REQUIREMENTS FOR ROAD VEHICLES (131 p) M

This standard establishes rules and procedures for the safe operation and handling of all road vehicles that are used for the transport of dangerous goods in accordance with the load constrains. The procedures include requirements for the consignor, the consignee, the operator, the driver and the qualified person as well as en route procedures and cargo handling.

MS 849:2011 TRANSPORT OF DANGEROUS GOODS- DESIGNED, CONSTRUCTION, TESTING APPROVAL AND MAINTENANCE OF ROAD VEHICLES AND PORTABLE TANKS (12p) M

This standard covers requirements for the design, construction, testing, approval and maintenance of road vehicles of GVM equal to or above 3500 kg, and portable tanks used to transport dangerous goods as classified in MS 848 and as required by the relevant national legislation.

MS 850:2011 CLASSIFICATION OF COALS (7p) V

This Malawi Standard describes a simple classification system for coals providing guidance on the selection of the appropriate standard procedures for the analyses and testing of coals, international comparison of coals in terms of some key characteristics, descriptive categorization of coals.

MS 851:2011 COAL AND COKE, ANALYSIS AND TESTING – DETERMINATION OF TRACE ELEMENT - GUIDANCE TO THE DETERMINATION OF TRACE ELEMENTS (15p) V

This standard compares methods used for the determination of trace elements in coal ash. The trace elements include: arsenic, beryllium, boron, cadmium, chlorine, chromium, cobalt, copper, fluorine, lead, manganese, mercury, nickel, selenium and zinc. Also included are vanadium and molybdenum.

MS 852:2011 COAL AND COKE, ANALYSIS AND TESTING – DETERMINATION OF TRACE ELEMENTS-ASH-DETERMINATION OF ELEVEN TRACE ELEMENTS-FLAME ATOMIC ABSORPTION SPECTROMETRIC METHODS (18p) V

This standard sets out a method for the preparation of the ash and a flame atomic absorption spectrometric method for the determination of barium, beryllium, chromium, copper, lead, lithium, manganese, nickel, strontium, vanadium and zinc ash prepared in the laboratory from higher rank coal, coke and fly-ash.


This standard sets out a method for the determination of arsenic, antimony and selenium in higher rank coal and coke by hydride generation.

MS 854:2011 COAL AND COKE-ANALYSIS AND TESTING - DETERMINATION OF TRACE ELEMENTS-DETERMINATION OF BORON CONTENT - ICP AES METHODS (5p) V

This standard sets out a method for the determination of boron in higher rank coal and coke using an inductively-coupled plasma atomic emission spectrometer after ashing of the coal or coke in the presence of Eschka mixture.

This standard sets out methods for determination of silicon, aluminium, iron, calcium, magnesium, sodium, potassium, titanium and manganese in higher rank coal ash and coke ash by flame atomic absorption spectrometry after acid digestion.

MS 856: 2011  HARD COAL - DETERMINATION OF CAKING POWER - ROGA TEST (5 p) V

This standard specifies a method of determining the caking power of hard coal by the Roga test.

MS 857:2011  COAL - BURNING APPLIANCES (REDUCED SMOKE EMISSION TYPE) – REQUIREMENT AND TEST METHODS (13 p) V

This specification covers the constructional and performance requirements for coal-burning appliances of three types that are free-standing and that operate with minimum smoke emission.

MS 858:2011  WOOD CHARCOAL AND CHARCOAL BRIQUETTES FOR HOUSEHOLD USE - REQUIREMENTS AND TEST METHODS (13p) M

This standard specifies requirements for charcoal and charcoal briquettes that is derived entirely from wood, in lump or briquette form, and that is intended for household use.

MS 859:2011  MOISTURE CONTENT OF COAL SAMPLES INTENDED FOR GENERAL ANALYSIS (VACUUM WOVEN-COAL METHODS) (2 p) V

This standard specifies the vacuum-oven method for the determination of the moisture content of coal samples intended for general analysis.

MS 860:2011  MOISTURE CONTENT OF COAL SAMPLES INTENDED FOR GENERAL ANALYSIS (3 p) V

This standard specifies a method for the determination of the moisture content of coal samples intended for general analysis.

MS 861:2011:  CARBON DIOXIDE CONTENT OF COAL (TITRIMETRIC METHOD) (4 p) V

This standard specifies a volumetric method for the determination of the carbon dioxide content of coal.

MS 862:2011  COKING PROPERTIES OF COAL  (RUHR DILATOMETER TEST) (10p) V

This standard specifies a method for the determination of the coking properties of coal by using the Ruhr dilatometer.

MS 867:2011  YIELDS OF TAR, WATER, GAS AND COKE RESIDUE FROM COAL BY LOW TEMPERATURE DISTILLATION (6p) V

This standard outlines the methods for determining the yields of tar, water, gas, and coke residues from coal by temperature distillation.

MS 870:2011  COAL – DETERMINATION OF FORMS OF SULPHUR (14P) V

This standard specifies methods of determining the sulphate and pyritic sulphur contents of coals, including brown coals and lignites, and of calculating the amount of organic sulphur present.
MS 871:2011 HARD COAL – DETERMINATION OF MOISTURE–HOLDING CAPACITY (8p) V
This standard specifies a method of determining the moisture-holding capacity of hard coals.

MS 872:2011 HARD COAL – DETERMINATION OF THE CRUCIBLE SWELLING NUMBER (6 p) V
This Malawi standard specifies a method for determining the swelling properties of hard coal when heated in a covered crucible.

MS 873:2011 HARD COAL - DETERMINATION OF TOTAL MOISTURE (6p) V
This Malawi standard describes two methods for determination of total moisture content of hard coals, a two-stage method and a single-stage method. For either method there is a choice between drying in a nitrogen atmosphere. Depending on the coal rank, there may be systematic differences between the results obtained by drying in the different atmospheres on subsamples of same sample. Drying in the nitrogen atmosphere is suitable for all hard coals, while drying in air is only suitable for hard coals not susceptible to oxidation.

MS 874:2011 COAL – DETERMINATION OF PLASTIC PROPERTIES-CONSTANT-TORQUE - GIESELER PLASTOMETER METHOD (11p) V
This standard specifies a method for obtaining a relative measure of the plastic behaviour of coal when heated under prescribed conditions. The method may be used to obtain values of plastic properties of coals and blends used in carbonization and in other situations where determination of plastic behaviour of coals is of practical importance.

MS 875:2011 BUILDING ENVIRONMENT DESIGN-INDOOR ENVIRONMENT – GENERAL PRINCIPLES (11p) M
This Malawi standard establishes the general principles of building environment design taking into account healthy indoor environment for the occupants, and protecting the environment for future generations. This Malawi Standard promotes an approach in which the various parties involved in building environmental design collaborate with one another to provide a sustainable building environment.

MS 876:2011 BUILDING ENVIRONMENT DESIGN GUIDELINES TO ASSESS ENERGY EFFICIENCY OF NEW BUILDING (15P) V
This standard gives guidelines related to energy efficiency in buildings as introduced in MS 875

MS 877:2011 ENERGY MAMNAGEMENT SYTEMS REQUIREMENTS WITH GUIDANCE FOR USE (22p) V
This specifies requirements for establishing, maintaining and improving an energy management systems, whose purpose is to enable an organization to follow a systematic approach in achieving continual improvement of energy performance, including energy efficiency, energy use and consumption.

MS 878:2011 HARD COAL AND COKE - DETERMINATION OF VOLATILE MATTER (7 p) V
This standard specifies a method of determining the volatile matter of hard coal and coke. It is not applicable to brown coals and lignites

MS 879:2013 POTATOES - SPECIFICATION (4p) M
This Malawi Standard defines the quality requirements for baby (early) and ware potatoes of varieties (cultivars) grown from Solanum tuberosum L. and its hybrids, to be supplied fresh to consumer .It excludes baby and ware potatoes for industrial processing

© 2017 Catalogue of Malawi standards
MS 882:2012  SELF-BALLASTED LIGHT EMITTING DIODES LAMPS FOR GENERAL LIGHTING PURPOSES-PERFORMANCE REQUIREMENTS (8p) M

This Malawi standard specifies the performance requirements for self-ballasted Light Emitting Diodes (LED) lamps with a supply voltage up to 250 v, together with the test methods and conditions required, intended for domestic and similar general lighting purposes.

MS 883:2012  SELF-BALLASTED LAMPS FOR GENERAL LIGHTING PURPOSES-SAFETY REQUIREMENTS (11p) M

This Malawi standard specifies the safety and interchangeability requirements together with the test methods and conditions required to show compliance of tubular fluorescent and other gas-discharged lamps with integrated means for controlling starting and stable operation (self-ballasted lamps) intended for domestic and similar general lighting purposes.

MS 884:2012  SELF – BALLASTED FLUORESCENT LAMPS FOR GENERAL PURPOSES-PERFORMANCE REQUIREMENTS (8p) M

This Malawi Standard specifies the performance requirements together with the test methods and conditions required to show compliance of tubular fluorescent and other gas-discharged lamps with integrated means for controlling starting and stable operation (self-ballasted lamps) intended for domestic and similar general lighting purposes.

MS 886:2012  SELF – BALLASTED COMPACT FLUORESCENT LAMPS FOR GENERAL LIGHTING PURPOSES-SPECIFICATION (11p) M

This Malawi standard provides requirements for compact fluorescent lamps for domestic and general lighting purposes and applies exclusively to self-ballasted compact fluorescent lamps (CFLs) with or without any cover, and without any reflector element. These lamps have an integrated means for controlling starting and stable operation and are intended for general lighting purposes: They have:
- Screw or bayonet caps,
- A rate power up to 60w, and
- A rate voltage of 230v.

MS 887:2012  SELF - BALLASTED LIGHT EMITTING DIODE LAMPS FOR GENERAL LIGHTING PURPOSES – SAFETY SPECIFICATION. (25P) M

This Malawi Standard specifies the test methods and conditions required for electronic self-ballasted, compact fluorescent lamps (CFLs), with intergrated means for starting, controlling and stable operation.

MS 888:2012  JATROPHA STRAIGHT VEGETABLE OIL - REQUIREMENTS AND TEST METHODS (9 p) M

This Malawi standard specifies requirements and test methods for marketed and delivered straight vegetable oil extracted from jatropha carcus to be used at an agreed and approved percentage either as diesel or illuminating paraffin blend.

MS 889-1:2011  RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 1: General introduction to rural electrification (5p) V

This series of documents intends to provide to different players involved in rural electrification projects (such as project developers implementers, installers, etc) documents for the setting up of renewable energy and hybrid systems with AC voltage below 500 V, DC voltage below 50 V and power below 50 kVA.
MS 889-2:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION (51P) V

Part 2: From requirements to a range of electrification systems.

The scope of this part of MS 889 series is to propose a methodological approach for the setting up and carrying out of socio-economic studies as part of the framework of decentralized rural electrification projects. It is addressed to project teams and particular to experts in charge of socio-economic studies in international projects.

MS 889-3:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 3: Protect development and management (37p) V

This part of MS 889 provides information on the responsibilities involved in the implementation of rural power systems. In Clause 5, this technical specification presents contractual relationships to be built between the different participants to the project. Throughout the project, responsibilities are to be clearly defined and contractual commitments controlled. Clause 6 provides relevant tests to be applied to small renewable energy and hybrid electrification systems. Clause 7 provides proposed quality assurance principles to be implemented. In Clause 8, requirements are proposed for recycling and protection of environment. In Annex A of this technical specification, further technical considerations for contractual liabilities are provided.

MS 889-4:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 4: Systems selection and design (56p)

This part of MS 889 provides a method for describing the results to be achieved by the electrification system independently of the technical solutions that could be implemented.

MS 889-5:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION (25P) M

Part 5: Protection against electrical hazards.

Decentralized Rural Electrification Systems (DRES) are designed to supply electric power for sites which are not connected to a large interconnected system, or a national grid, in order to meet basic needs.

MS 889-7:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION PART 7: GENERATORS (5p) V

Part 7: The purpose of this part of MS 889 is to specify the general requirements for generators (maximum power=100 k VA) in decentralized rural electrification systems.

MS 889-7-1:2012 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 7-1: Generators-Photovoltaic arrays. (66p) V

This part of MS 889 specifies the general requirements for erection and operation of PV arrays in decentralizes rural electrification systems.
MS 889-8-1:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 8-1: selection of batteries and battery management systems for stand-alone electrification systems - specific case of automotive flooded lead-acid batteries available in developing countries (16 p)

This specification proposes simple, cheap, comparative tests in order to discriminate easily, in a panel of flooded lead-acid batteries, the most acceptable model for PV individual Electrification Systems.

MS 889-9-2:2011 RECOMMENDATION FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION PART 9-2 MICRO GRIDS (42p) M

Part 9-2: Microgrids

The purpose of this part of MS 889-9 is to specify the general requirements for the design and the implementation of micro grids used in decentralized rural electrification to ensure the safety of persons and property and their satisfactory operation according to the scheduled use.

MS 889-9-3:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 9-3: Integrated system - user Interface (7p)

This part of IEC 62257 provides information on the responsibilities involved in the implementation of rural power systems. In Clause 5, this technical specification presents contractual relationships to be built between the different participants to a project. Throughout the project, responsibilities are to be clearly defined and contractual commitments controlled.

MS 889-9-4:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION. (14 p)


The purpose of this part of MS 889 is specify the general requirements for the design and the implementation of a user’s installation.

This part of MS 889-9 applies to single phase user’s electrical installations with maximum power of 500VA, in Decentralized Rural Electrification Systems (DRES)

MS 889-9-5:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 9-5: Integrated system-Selected of portable PV lanterns for rural electrification projects (23p)

This standard applies to portable solar lanterns (portable PV lantern). This specification is independent of the technology used to provide the light.

MS 889-9-6:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION

Part 9-6: Integrated systems-selection of photovoltaic individual electrification systems (PV-IEC) (26p)

This purpose of this part of MS 889 is to propose simple selection procedure and cheap, comparative tests which can be performed in laboratories of developing coun-
tries, in order to identify the most suitable model of small Photovoltaic Individual Electrification Systems (PV-IES) up to 500 Wp for a particular rural electrification project from a number of products submitted for test.

**MS 889-12-1:2011 RECOMMENDATIONS FOR SMALL RENEWABLE ENERGY AND HYBRID SYSTEMS FOR RURAL ELECTRIFICATION**

Part 12-1: selection of self-ballasted lamps (CFL) for rural electrification systems and recommendations for household lighting equipment (11 p) V

Decentralized Rural Electrification Systems (DRES) are designed to supply electric power to sites which are not connected to a large interconnected system, or a national grid.

**MS 891:2013 PAINTS AND VARNISHES – VISUAL COMPARISON OF THE COLOUR OF PAINTS (8p)**

This Malawi Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.

**MS 892:2013 PAINTS AND VARNISHES – EXAMINATION AND PREPARATION OF TEST SAMPLES (4p)**

This Malawi Standard specifies both the procedure for preliminary examination of a single sample, as received for testing, and the procedure for preparing a test sample by blending and reduction of series of samples representative of a consignment or bulk of paint, varnishes or related product.

**MS 893:2013 PAINTS AND VARNISHES-NATURAL WEATHERING OF COATINGS-EXPOSURE AND ASSESSMENT (9p)**

This Malawi Standard specifies the conditions which need to be taken into consideration in the selection of the type of natural weathering and the natural weathering procedure to be used to determine the resistance of coatings or coating systems (direct weathering or weathering behind window glass).

**MS 896:2013 GREEN TEA-DETERMINATION AND BASIC REQUIREMENTS (3p) M**

This Malawi standard specifies the parts of a named plant that are suitable for making green tea for consumption as a beverage and the chemical requirements for green tea that are used to indicate that tea from that source has been produced in accordance with good production practice.

**MS 897-2:2013 DETERMINATION OF SUBSTANCES CHARACTERISTICS OF GREEN AND BLACK TEA**

Part 1: Content of total polyphenol in tea –colorimetric methods using folin - Ciocaltey reagent (19p)

This Malawi Standard specifies a high-performance liquid chromatographic (HPLC) methods for the determination of the total catechin of tea from the summation of the individual catechins. It is applicable to both leaf and instant green tea, and with precision limitations to black tea (see Annex A).

**MS 899:2013 RESTRICTED INGREDIENTS IN COSMETICS-METHODS OF ANALYSIS (155p) M**

This standard details methods of analysis and sampling for restricted ingredients in cosmetics products.
MS 912-1:2014 PLASTICS PIPING SYSTEMS FOR HOT AND COLD WATER INSTALLATIONS-POLYPROPYLENE (PP)

Part 1: General (9p)

This part of MS 912 specifies the general aspects of polypropylene (PP) piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water whether or not intended for human consumption (domestic systems) and for heating systems, under design pressures and temperatures according to the class of application (see Table 1).


This part of MS 912 specifies the characteristics of pipes made from polypropylene (PP) for piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water whether or not intended for human consumption (domestic systems) and for heating systems under operating pressures and temperatures appropriate to the class of application (see Table 1 of MS 912-1:2014).


This part of MS 912 specifies the characteristics of pipes made from polypropylene (PP) for piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water whether or not intended for human consumption (domestic systems) and for heating systems under operating pressures and temperatures appropriate to the class of application (see Table 1 of MS 912-1:2014).


This part of MS 912 specifies the characteristics of pipes made from polypropylene (PP) for piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water whether or not intended for human consumption (domestic systems) and for heating systems under operating pressures and temperatures appropriate to the class of application (see Table 1 of MS 912-1:2014).

MS 912-7:2014 PLASTICS PIPING SYSTEMS FOR HOT AND COLD WATER INSTALLATIONS-POLYPROPYLENE (PP)

Part 7: Guidance for the assessment of conformity (12p)

This Malawi Standard gives guidance for the assessment of conformity to be included in the manufacturer’s quality plan as part of his quality system.

MS 913:2013 HYDRATED LIME FOR USE IN SUGAR PROCESSING-SPECIFICATION (8p) M

This standard prescribes the requirements and the test methods of sampling and testing for hydrated limes for use in sugar industry.

MS 914:2014 TIMBER STRUCTURES-GLUED LIMITED TIMBER-TEST METHODS FOR DETERMINATION OF PHYSICAL AND MECHANICAL PROPERTIES (26p) M

This Malawi standard specifies test methods for determining the following characteristic values of glued laminated timber: modulus of elasticity in bending; shear modulus; modulus of elasticity in tension parallel to the grain; compression strength parallel to the grain; modulus of elasticity in tension perpendicular to the grain; tension strength perpendicular to the grain; modulus of
elasticity in compression perpendicular to the grain; compression strength perpendicular to the grain and shear strength.

**MS 917:2013 RAMMED EARTH STRUCTURES-CODE OF PRACTICE (first ed) 39 p M**

This code of practice gives guidance on the design, construction and test methods for rammed earth structures.

**MS 918:2013 SPICES AND CONDIMENTS –DETERMINATION OF MOISTURE CONTENT ENTRAINMENT METHOD (5p) M**

This Malawi standard specifies an entrainment method for the determination of the moisture content of spices and condiments.

**MS 919:2013 SPICES AND CONDIMENTS-DETERMINATION OF ACID-INSOLUBLE ASH (4p) M**

This Malawi Standard specifies a method for the determination of acid-insoluble ash in spices and condiments.

**MS 920:2013 SPICES, CONDIMENTS AND HERBS-DETERMINATION OF VOLATILE OIL CONTENT CHYDRODISTILLATION METHOD (9p) M**

This Malawi Standard specifies a method for the determination of the volatile oil content of spices, condiments and herbs.

**MS 921:2014 WOOD-DETERMINATION OF VOLUMETRIC SWELLING (5p) M**

This Malawi Standard specifies two methods for the determination of volumetric swelling of wood

**MS 922:2014 SPICES AND CONDIMENTS –DETERMINATION PF NON-VOLATILE ETHER EXTRACT (first ed) 3p M**

This Malawi standard specifies a method for the determination of the non-volatile ether extract in spices and condiments.

**MS 923:2014 PEPPER AND PEPPER OLEORESINS-DETERMINATION OF PIPERINE CONTENT, METHODS USING HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) (6p)**

This Malawi Standard specifies a method for the determination, by high-performance liquid chromatography, of the pipeline content of peppers (*Piper nigrum* Linnaeus) whole or powdered, as well as their extracts (oleoresins).

**MS 924-1:2014 CHILLIES AND CHILLI OLEORESINS-DETERMINATION OF TOTAL CAPSAICINOID CONTENT PART1: METHOD USING HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) (fisrt ed) ( 6 p) M**

This Malawi standard specifies a method for the determination, by High Performance Liquid Chromatography (HPLC), of the total capsaicinoid content of whole or powdered chillies (usually *Capsicum frutescens* L ) and the extracts(oleoresins). This content is calculated from the total of capsaicin, nordihydrocapsaicin and dihydrocapsaicin, expressed as nonyl acid vanillylamide, which is the chosen reference substance.
Part 2: method using high performance liquid chromatography (HPLC) (6p)

This Malawi Standard specifies a method for the determination, by high-performance liquid chromatography (HPLC), of the total capsaicinoid content of whole or powdered chillies (usually capsicum frutescens) and their extracts (oleoresins). This content is calculated from the total of capsaicin, nordihydrocapsaicin and dihydrocapsaicin, expressed as nonyl acid vanillylamide, which is the chosen reference substance.


MS 926-1:2014 PALLETS FOR MATERIALS HANDLING –FLAT PALLETS

Part 1: Test methods (M) 31p

This part of MS 926 specifies the test methods available for evaluating new flat pallets for materials handling.

MS 926-2:2014 PALLETS FOR MATERIALS HANDLING –FLAT PALLETS

Part 2: Performance requirements and selection of tests (12p) M

This part of MS 962 specifies the performance requirements to establish nominal loads for flat pallets. It also specifies the tests requirements for new flat pallets in various handling environments and performance requirements for the tests with payloads. It is not intended to apply to pallets with a fixed superstructure or a rigid, self-supporting container that can be mechanically attached to the pallets and which contributes to the strength of the pallet.

MS 926-3:2014 PALLETS FOR MATERIALS HANDLING –FLAT PALLETS

Part 3: Maximum working loads (9p) M

This part of MS 926 specifies the determination of maximum working load for new flat pallets with known payloads in different handling environments

MS 927:2015 WOOD-SAMPLING METHODS AND GENERAL REQUIREMENTS FOR PHYSICAL AND MECHANICAL TESTS (8p) M

This standard specifies methods for the extensive and limited sampling of wood, conditioning and preparation of test pieces. It also specifies the general requirements for physical and mechanical testing of small clear wood specimens. The sampling guidance provided in this standard can be applied for timber taken from trees, logs or pieces of ungraded/graded/pre-sorted sawn timber for non-structural applications, such as furniture, windows, doors, etc.

MS 928:2014 WOOD-DETERMINATION OF VOLUMETRIC SHRINKAGES (4p) M

This standard specifies two methods for the determination of the volumetric shrinkages of wood

MS 929:2014 BROADLEAVED SAWN TIMBER-NOMINAL SIZES (COMESA HARMINIZED) (2p) M

This standard specifies nominal sizes of unplanned, square-edged and unedged, broadleaved sawn timber.
MS 930:2014 SAWN TIMBER-TEST METHODS-DETERMINATION OF ULTIMATE STRENGTH IN SHEARING PARALLEL TO GRAIN (3p) M

This standard specifies a method of testing sawn timber of coniferous and broadleaved species in shearing parallel to the grain to determine the ultimate strength.

MS 937:2014 DEGERMED MAIZE (CORN) MEAL AND MAIZE (CORN) GROTS-SPECIFICATION (4p) M

This Malawi Standard applies to degemred maize (corn) meal and to degemred maize (corn) grits for direct human consumption milled from kernels of common maize, Zea mays L.

MS 938:2014 SORGHUM FLOUR-SPECIFICATION (first ed) (4 p) M

This Malawi standard applies to sorghum flour designed for direct human consumption as described in clause 3.

MS 944:2014 PRINCIPLES FOR FOOD IMPORT AND EXPORT INSPECTION AND CERTIFICATION (first ed) (3p) M

Official and officially recognised inspection and certification systems are fundamentally important and very widely used means of food control; the following principles apply to such systems.

MS 974:2014 TEXTILES FIBRES-DETERMINATION OF BREAKING FORCE AND ELONGATION AT BREAK OF INDIVIDUAL FIBRES (first ed) (7 p) M

This Malawi standard specifies the methods and conditions of test for the determination of breaking force and elongation at break of individual fibres in the conditioned or wet state.

MS 975:2014 TEXTILE FIBRES-DETERMINATION OF LINEAR DENSITY-GRAVIMETRIC METHOD AND VIBROSCOPE METHOD (first ed) (8 p) M

This Malawi standard specifies a gravimetric method and a vibroscope method for the determination of the linear density of textile fibres applicable respectively to:

MS 979:2014 TEXTILES-METHODS FOR THE REMOVAL OF NON-FIBROUS MATTER PRIOR TO QUANTITATIVE ANALYSIS OF FIBRE MIXTURE (7 p) M

This technical report describes procedures for the removal of certain commonly found types of non-fibrous substances from fibres. Fibres to which the procedures are applicable and those to which they are not applicable are listed in the table, in relation to the non-fibrous substances to be removed. The names of these fibres are defined in ISO 2076. Identification of non-fibrous matter and of the fibres present is not covered by this technical report.

MS 986:2014 PETROLEUM PRODUCTS-FUELS (CLASS F) - GAS TURBINE FUELS FOR INDUSTRIAL AND MARINE APPLICATIONS-SPECIFICATION (16p)

This standard specifies the requirements for petroleum fuels for gas turbines (see ISO 3977) use in public utility, industrial, and marine applications. It does not cover requirements for gas turbine fuels for aviation use. This International Standard is intended for the guidance of users such as turbine manufacturers, suppliers, and purchasers of gas turbine fuels.

MS 988:2014 STANDARD GUIDE FOR PERFORMANCE EVALUATION OF HYDRAULIC FLUIDS FOR PISTON PUMPS (35p) M

This guide covers the establishment of test protocols and methodologies for determining the suitability of fluids for use in fluid power systems that incorporate axial or radial piston pumps. The suitability of all fluid types to meet specific levels of performance in piston pumps is addressed. The fluids include, but are not limited to formulations based on mineral, synthetic or vegetable oil based stocks. The finished fluids may be in the form or straight oils or invert emulsions.
MS 989:2014  MINERAL LUBRICATING OIL USED IN STEAM OR GAS TURBINES–SPECIFICATION (9p) M

This specification covers mineral oils used in steam and gas turbine lubrication systems where the performance requirements demand highly refined mineral base oil compounded with rust and oxidation inhibitors plus selected additives as needed to control foam, wear, demulsibility, and so forth. This standard may also be applied to combine cycle turbine systems, where a single lubricant circulating systems is used to supply oil to a stream and gas turbine configured in tandem either on a single or separate shaft for enhancing energy efficiency.

MS 990:2014  LUBRICANTS, INDUSTRIAL OILS AND RELATED PRODUCTS (CLASS L) – FAMILY H (HYDRAULIC SYSTEMS) – SPECIFICATIONS FOR HYDRAULIC (10p) M

This Standard specifies the minimum requirements of unused fire-resistant and less-flammable hydraulic fluids for hydrostatic and hydrodynamic systems in general industrial applications. It is not intended for use in aerospace or power-generation application, where different requirements apply. It provides guidance for suppliers and end users of these less hazardous fluids and to the manufacturers of hydraulic equipment in which they are used.

MS 991:2014  LUBRICANTS, INDUSTRIAL OILS AND RELATED PRODUCTS (CLASS L) – FAMILY X (GREASES) – SPECIFICATION (5p) M

This standard specifies the requirements of greases used for lubrication of equipment, components of machines, vehicles, etc. The purpose of this Standard is to provide guidance to suppliers and end users of greases and to equipment manufacturers of grease-lubricated equipment.

MS 992-1:2014  LUBRICANTS, INDUSTRIAL OILS AND RELATED PRODUCTS (CLASS L)- FAMILY C (GEARS)-PART 1:SPECIFICATIONS FOR LUBRICANTS FOR ENCLOSED GEAR SYSTEMS (7P) M

This part of MS 992 establishes the specifications relative to family C (gears) for lubricants, industrial oils and related products of Class L (see MS 994-5) This part of MS 992 deals with lubricants for industrial gears in enclosed systems. Lubricants for motor vehicle gears and open industrial gears are not covered.

MS 993:2014  LUBRICANTS, INDUSTRIAL OILS AND RELATED PRODUCTS (CLASS L) – MACHINE-TOOL LUBRICANTS-CATEGORIES AND SPECIFICATIONS (10p) M

This international standard provides the manufacturers and users of machine tools with criteria for the choice among the various categories of lubricants and gives specifications for these Lubricants. This International standard facilitates the application of ISO 5169 relating to the presentation of lubrication instructions for machine tools.


This part of MS 994 establishes the detailed classification of family A (Total loss systems) which belongs to class L (Lubricants, industrial oils and related products)

MS 1000:2014  CERTAIN PULSES–SPECIFICATION (3p) M

This Malawi standard applies to the whole, shelled or split pulses defined below which are intended for direct human consumption. The standard does not apply to pulses intended for factor grading and packaging, industrial processing, or to those pulses intended for use in feeding of animals. It does not apply to fragmented pulses when sold as such, or to other legumes for which separates standards may be elaborated.
MS 1003:2014 PAPAYAS-SPECIFICATION (first ed) 5 p M

This Malawi standard applies to fruits of commercial varieties of papayas grown from Carica papaya L., of the Caricaceae family, to be supplied fresh to the consumer; after preparation and packaging. Papayas for industrial processing are excluded.

MS 1004:2014 MANGOES-SPECIFICATION (first ed) 5 p M

This Malawi standard applies to commercial varieties of mangoes grown from Mangifera indica L., of the Anacardiaceae family, to be supplied fresh to the consumer, after preparation and packaging. Mangoes for industrial processing are excluded.

MS 1005:2014 DATES-SPECIFICATION (first ed) 5 p M

This Malawi Standard applies to commercially prepare whole dates in pitted or un-pitted styles packed ready for direct consumption. It does not apply to other forms such as pieces or mashed dates or dates intended for industrial purposes.

MS 1006:2014 MILKFAT PRODUCTS-SPECIFICATION (FIRST ED) 4 p M

This Malawi standard applies to anhydrous milkfat, milkfat, anhydrous butteroil, butteroil and ghee, which are intended for further processing or culinary use, in conformity with the description in section 3 of this standard.

MS 1110:2014 DRIED APRICOTS-SPECIFICATION (first ed) 4 p

This Malawi standard applies to dried fruits of Armeniaca vulgaria Lam. (Prunus armeniaca L.) which have been suitably treated or processed and which are offered for direct consumption. It also covers dried apricots which are packed in bulk containers and are intended for repacking into consumer size containers or for direct sale to consumers.

MS 1068:2014 SPICES AND CONDIMENTS –BOTANICAL NOMENCLATURE (15p)

This Malawi Standard gives a non-exhaustive list of botanical names and common names in English of plants or parts of plants used as spices or condiments.

MS 1087:2014 PALLETS FOR MATERIALS HANDLING-VOCABULARY (71p) M

This international standard defines terms relating to pallets for unit load methods of materials handling.

MS 1111:2014 BABY CORN-SPECIFICATION (first ed) 4 p

This Malawi standard applies to cobs, without the silk and anthers, of commercial varieties of baby corn (corn inflorescence) grown from Zea mays L., of the Gramineae family, separated from silk, husk and anthers, to be supplied fresh to the consumer, after preparation and packaging. Baby corn for industrial processing is excluded.

MS 1112:2015 CODE OF HYGIENIC PRACTICE FOR FRESH FRUITS AND VEGETABLES (55p) M

This code of practice covers general hygienic practices for the primary production and packing of fresh fruits and vegetables cultivated for human consumption in order to produce a safe and wholesome product: particularly for those intended to be consumed raw. Specifically, this code is applicable to fresh fruits and vegetables grown in the field, (with or without cover) or in protected facilities (hydroponic systems, greenhouses). It concentrates on microbial hazards and addresses physical and chemical hazards only in so far as these related to Good Agricultural Practices (GAPs) and Good Manufacturing Practices.
MS 1244:2016 CANNED SHRIMPS OR PRAWNS-SPECIFICATION (6p) M

This Malawi standard applies to canned shrimps or canned prawns. It does not apply to speciality products where shrimp constitutes less than 50% m/m of the contents.

MS 1245:2016 CANNED TUNA AND BONITO-SPECIFICATION (7 p) M

This Malawi standard applies to canned tuna and bonito. It does not apply to speciality products where the fish content constitutes less than 50% m/m of the contents.

MS 1246:2016 QUICK FROZEN BLOCKS OF FISH FILLET, MINCED FISH FLESH AND MIXTURES OF FILLETS AND MINCED FISH FLESH-SPECIFICATION (9p) M

This Malawi standard applies to quick frozen blocks of cohering fish flesh prepared from fillets (including pieces of fillets) or minced fish flesh or a mixture of fillets and minced fish flesh, which are intended for further processing.

MS 1249:2016 CANNED SARDINE AND SARDINE TYPE PRODUCTS-SPECIFICATION (6p) M

This Malawi standard applies to canned sardines and sardine-type products packed in water or oil other suitable packing medium. It does not apply to speciality products where fish content constitute less than 50%m/m of the content of the can.

MS 1260-1-1:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART1: GENERAL SECTION 1: APPLICATION AND INTERPRETATION OF FUNDAMENTAL DEFINITIONS AND TERMS (23 p) M

The objective of this report is to describe and interpret various terms considered to be basic importance to the concepts and practical in the design and evaluation of electromagnetically compatible systems. In addition, attention is drawn to the distinction between electromagnetically compatibility (EMC) tests carried out in a standardized set-up and those carried out at the location where a device (equipment or system) is installed.

MS 1260-3-11:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART1: LIMITATION OF VOLTAGE CHANGES, VOLTAGE FLUCTUATIONS AND FLICKER IN PUBLIC LOW-VOLTAGE SUPPLY SYSTEMS-EQUIPMENT WITH RATED CURRENT 75 A AND SUBJECT TO CONDITIONAL CONNECTION (9p) M

Part 3-11: Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems-Equipment with rated current75 A and subject to conditional connection

This part of MS 1260 is concerned with the emission of voltage changes, voltage fluctuations and flicker produced by equipment and impressed on the public low-voltage supply system.

MS 1260-4-1:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART1: TESTING AND MEASUREMENT TECHNIQUES-OVERVIEW OF IEC 61000-4 SERIES (9p) M

Part 4-1: Testing and measurement technics-Overview of IEC 61000-4 series

This part of MS 1260 covers testing and measuring techniques for electric and electronic equipment (apparatus and systems) in its electromagnetic environment.

MS 1260-4-9:2016 ELECTROMAGNETIC COMPATIBILITY (EMC) PART1: TESTING AND MEASUREMENT TECHNIQUES –PULSE MAGNETIC FIELD IMMUNITY (20p) M

Part 4-9: Testing and measurement techniques –Pulse magnetic field immunity

This standard relates to the immunity requirements of equipment, only under operational conditions, to pulse magnetic disturbances mainly related to, industrial installation, medium voltage and high voltage sub-station.
MS-ISO/TS 4949:2003  STEEL NAMES BASED ON LETTER SYMBOLS (8 p)

This Technical Specification sets out rules for the designation of internationally standardized steel grades by means of symbolic letters and numbers to express application and principal characteristics (e.g. mechanical, physical, chemical) so as to provide an abbreviated identification of steel grades.

MS-ISO 5725: ACCURACY (TRUENESS AND PRECISION) OF MEASUREMENTS METHODS AND RESULTS: GENERAL PRINCIPLES AND DEFINITIONS. (17p)

The purpose of ISO 5725 is as follows.

a) To outline the general principles to be understood when assessing accuracy (trueness and precision) of measurement methods and results, and in applications, and to establish practical estimations of the various measures by experiment (ISO 5725-1).

b) To provide a basic method for estimating the two extreme measures of the precision of measurement methods by experiment (ISO 5725-2).

c) To provide a procedure for obtaining intermediate measures of precision, giving the circumstances in which they apply and methods for estimating them (ISO 5725-3).

d) To provide basic methods for the determination of the trueness of a measurement methods (ISO 5725-4).

e) To provide some alternatives to the basic methods, given in ISO 5725-2 and ISO 5725-4, for determining the precision and trueness of measurement methods for use under certain circumstances (ISO 5725-5).

f) To present some practical applications of these measures of trueness and precision (ISO 5725-6)

MS-ISO 9000:2015 QUALITY MANAGEMENT SYSTEMS – FUNDAMENTALS AND VOCABULARY (Fourth edition) (51p) V

This international standard describes fundamentals of quality management systems, which form the subject of the MBS-ISO 9000 family, and defines related terms.

MS-ISO 9001:2015 QUALITY MANAGEMENT SYSTEMS – REQUIREMENTS (Fifth edition) (29 p)

This international standard specifies requirements for a quality management system where an organization:

a) needs to demonstrate its ability to consistently provide product that meets customer and applicable regulatory requirements, and

b) aims to enhance customer satisfaction through the effective application of the system, including processes for continued improvement of the system and assurance or conformity to customer and applicable regulatory requirements

MS-ISO 9004:2000 QUALITY MANAGEMENT SYSTEMS – GUIDELINES FOR PERFORMANCE IMPROVEMENTS (Second edition) (56 p) V

This international standard provides guidelines beyond the requirements given in MS-ISO 9001 in order to consider both the effectiveness and efficiency of a quality management system, and consequently the potential for improvement of the performance of an organization. When compared to MS-ISO 9001, the objectives of customer satisfaction and
product qualities are extended to include the satisfaction of interested parties and the performance of the organization.

**MS-ISO 10002:2004 QUALITY MANAGEMENT SYSTEMS – CUSTOMER SATISFACTION – GUIDELINES FOR COMPLAINTS HANDLING IN ORGANIZATION (23p) V**

This International Standard provides guidance on the process of complaints handling related to products within an organization, including planning, design, operation, maintenance and improvement. The complaints handling process described is suitable for use as one of the processes of an overall quality management system.

This International Standard is not applicable to disputes referred for resolution outside the organization or for employment-related disputes.

**MS-ISO 10005:2005 QUALITY MANAGEMENT SYSTEMS – GUIDELINES FOR QUALITY PLANS (23p) V**

This International Standard provides guidelines for the development, review, acceptance, application and revision of quality plans.

It is applicable whether or not the organization has a management system in conformity with ISO 9001.

This International Standard is applicable to quality plans for a process, product, project or contract, any product category (hardware, software, processed materials and services) and any industry.

**MS-ISO 10006:2006 QUALITY MANAGEMENT SYSTEMS – GUIDELINES FOR QUALITY MANAGEMENT IN PROJECTS (13p) V**

This International Standard gives guidance on the application of quality management in projects. It is applicable to projects of varying complexity, small or large, of short or long duration, in different environments, and irrespective of the kind of product or process involved. This can necessitate some tailoring of the guidance to suit a particular project.

**MS-ISO/TR 10013:2001GUIDELINES FOR QUALITY MANAGEMENT SYSTEMS DOCUMENTATION (14 p) V**

This Technical Report provides guidelines for the development and maintenance of the documentation necessary to ensure an effective quality management system, tailored to the specific needs of the organization. The use of these guidelines will aid in establishing a documented system as required by the applicable quality management system standard.

**MS-ISO 10015:1999QUALITY MANAGEMENT – GUIDELINES FOR TRAINING (14 p) V**

These guidelines cover the development, implementation, maintenance, and improvement of strategies and systems for training that affect the quality of the products supplied by an organization.

**MS-ISO 10144:2008 CERTIFICATION SCHEME FOR STEEL BARS AND WIRES FOR THE REINFORCEMENT OF CONCRETE STRUCTURES (5p) V**

This International Standard specifies rules for a certification scheme for continuous production of steel bars and wires for ordinary reinforcement of concrete structures in order to verify the conformity with requirements specified in product standards such as ISO 6935-2


This International Standard specifies technical requirements for cold-reduced steel wire designed for the reinforcement of concrete or for use in welded fabric.
This International Standard specifies requirements for an environmental management system to enable an organization to develop and implement a policy and objectives which take into account requirements and other requirements to which the organization subscribes, and information about significant environmental aspects. It applies to those environmental aspects that the organization identifies as those which it can control and those which it can influence. It does not itself state specific environmental performance criteria.

This Malawi Standard provides guidance on the establishment, implementation, maintenance and improvement of an environmental management system and its coordination with other management systems.

This Malawi Standard provides guidance on how to conduct an EASO through a systematic process of identifying environmental aspects and environmental issues and determining, if appropriate, their business consequences.

The standard establishes guiding principles for the development and use of environmental labels and declarations. It is intended that other applicable standards in the MS-ISO 14020 series can be used in conjunction with this standard.

This international standard specifies requirements for self-declared environmental claims, including statements, symbols and graphics, regarding products; It further describes selected terms commonly used in environmental claims and gives qualifications for their use. This International standard also describes a general evaluation and verification methodology for self-declared environmental claims and specific evaluation and verification methods for the selected claims in this standard.

This International Standards establishes the principles and procedures for developing Type I environmental labelling programmes, including the selection of product categories, product environmental criteria and product function characteristics; and for assessing and demonstrating compliance. This International Standard also establishes the certification procedures for awarding the label.

This Malawi Standard gives guidance on the design and use of environmental performance evaluation within an organization. It is applicable to all organizations, regardless of type, size, location and complexity.
MS-ISO 14032:1999  ENVIRONMENTAL MANAGEMENT – EXAMPLES OF ENVIRONMENTAL PERFORMANCE EVALUATION (EPE) (92p) V

This technical report provides examples of EPE that represent a range of applications from simple to elaborate. They also represent a range of organizations (e.g., manufacturing and service companies; nongovernmental organizations; government agencies; small, medium and large enterprises; organizations with and without certified environmental management systems) and geographic locations.

MS-ISO 14040:1997  ENVIRONMENTAL MANAGEMENT – LIFE CYCLE ASSESSMENT PRINCIPLES AND FRAMEWORK (12p) V

This Malawi standard specifies the general framework, principles and requirements for conducting and reporting life cycle assessment studies. This Standard does not describe the life cycle assessment technique in detail.


This standard in addition to MS-ISO 14040 specifies the requirements and the procedures necessary for the compilation and preparation of the definition of goal and scope for a Life Cycle Assessment (LCA), and for performing, interpreting and reporting a Life Cycle Inventory analysis (LCI).


This standard describes and gives guidance on a general framework for the life cycle impact assessment (LCIA) phase of life cycle assessment (LCA), and the key features and inherent limitations of LCIA. It specifies requirements for conducting the LCIA phase and the relationship of LCIA to the other LCA phases.

MS-ISO 14043:2000  ENVIRONMENTAL MANAGEMENT – LIFE CYCLE ASSESSMENT INTO CYCLE INTERPRETATION (18p) V

This standard provides requirements and recommendations for conducting the life cycle interpretation in LCA or LCI studies. It does not describe specific methodologies for the life cycle interpretation phase of LCA and LCI studies.

MS-ISO 14044:2006  ENVIRONMENTAL MANAGEMENT – LIFE CYCLE ASSESSMENT REQUIREMENT AND GUIDELINES (46p) V

This standard specifies the requirements and the procedures necessary for life cycle assessment (LCA) including:

a) The compilation and preparation of the definition of goal and scope of the LCA;

b) The life cycle inventory analysis (LCI) phase;

c) The life cycle impact assessment (LCIA) phase;

d) The life cycle interpretation phase;

e) The reporting and critical review of the LCA;

f) The limitations of the LCA;

g) The relationship between the LCA phases;

h) The conditions for use of value choices and optional elements.
This standard covers life cycle assessment (LCA) studies and life cycle inventory (LCI) studies. The intended application of LCA or LCI results is considered during the goal and scope definition, but the application is outside the scope of this standard.


This technical specification provides the requirements and a structure for a data documentation format, to be used for transparent and unambiguous documentation and exchange of Life Cycle Assessment (LCA) and Life Cycle Inventory (LCI) data, thus permitting consistent documentation of data, reporting of data collection, data calculation and data quality, by specifying and structuring relevant information.

**MS-ISO 14050:2005 ENVIRONMENTAL MANAGEMENT VOCABULARY (29 p)**

This standard contains definitions of fundamental concepts related to environmental management, published in the MS-ISO 14000 series of Malawi Standards.


Gives guidance to organizations in applying the requirements of MS-ISO 9001 during the development and implementation of a quality management system in the food and drink industry. It gives information on the possible interactions of the ISO 9000 series of standards and the hazard analysis and critical control point (HACCP) system for food safety requirement.

**MS-ISO 15189:2007 MEDICAL LABORATORIES – PARTICULAR REQUIREMENTS FOR QUALITY AND COMPETENCE (39 p)**

This International Standard specifies requirements for quality and competence particular to medical laboratories.

**MS-17020:2014 CONFORMITY ASSESSMENT-REQUIREMENTS FOR THE OPERATION OF VARIOUS TYPES OF BODIES PERFORMING INSPECTION (18p)**

This International standard contains requirements for the competence of bodies performing inspection and for the impartiality and consistency of their inspection activities.

**MS-ISO/IEC 17021-1::2015 CONFORMITY ASSESSMENT.- REQUIREMENTS FOR BODIES PROVIDING AUDIT AND CERTIFICATION OF MANAGEMENT SYSTEMS (48 p)**

This international standard contains principles and requirements for the competence, consistency and impartiality of the audit and certification of all types of management systems.


This International Standard specifies the general requirements for the competence to carry out tests and/or calibrations, including sampling. It covers testing and calibration performed using standard methods, non-standard methods, and laboratory-developed methods.

**MS 17065:2013 CONFORMITY ASSESSMENT –REQUIREMENTS FOR BODIES CERTIFYING PRODUCTS, PROCESSES AND SERVICES (first ed) 27p**

This international standard contains requirements for the competence, consistent operation and impartiality of product, process and service certification bodies. Certification bodies operating to this international standard need not offer all types of products, processes and services certification. Certification of products, processes and services is a third-party conformity assessment activity (see ISO/IEC 17000:2004, definition 5.5)
MS-ISO 19011:2011 GUIDELINES FOR AUDITING MANAGEMENT SYSTEMS (49p) V

This international standard provides guidance on auditing management systems, including the principles of auditing, managing an audit programme and conducting management system audits, as well as guidance on the evaluation of individuals involved in the audit process, including the person managing the audit programme, auditors and audit team.

It is applicable to all organizations that need to conduct internal or external audits of management systems or manage an audit programme.

The application of this international standard to other types of audits is possible, provided that special consideration is given to the specific competence needed.

MS-ISO 21569:2005 FOODSTUFFS - METHODS OF ANALYSIS FOR THE DETECTION OF GENETICALLY MODIFIED ORGANISMS AND DERIVED PRODUCTS – QUALITATIVE NUCLEIC ACID BASED METHODS (69p) V

This International Standard describes the procedure to qualitatively detect genetic modified organisms (GMOs) and derived products by analyzing the nucleic acids extracted from the sample under study. The main focus is on polymerase chain reaction (PCR) based amplification methods.

MS-ISO 21570:2005 FOODSTUFF – METHODS OF ANALYSIS FOR THE DETECTION OF GENETICALLY MODIFIED ORGANISMS AND DERIVED PRODUCTS – QUANTITATIVE NUCLEIC ACID BASED METHODS (103p) V

This international standard provides the overall framework of quantitative methods detection of genetically modified organisms (GMOs) in foodstuffs, using the polymerase chain reaction (PCR). It defines general requirements for the specific amplification of DNA target sequences in order to quantify the relative GMO-derived DNA content and to confirm the identity of the amplified DNA sequence.

MS-ISO 21571:2005 FOODSTUFFS-METHODS OF ANALYSIS FOR THE DETECTION OF GENETICALLY MODIFIED ORGANISMS AND DERIVED PRODUCTS – NUCLEIC ACID EXTRACTION (43p) V

This International Standard provides general requirements and specific methods for DNA extraction/purification and quantification. This International Standard has been established for food matrices, but could also be applicable to other matrices, such as grains and feed.


This standard provides general guidelines and performance criteria for methods for the detection and/or quantification of special proteins derived from genetically modified (GM) plant material in a specified matrix.

MS-ISO 22000:2005 FOOD SAFETY MANAGEMENT SYSTEMS – GENERAL GUIDELINES ON PRINCIPLES SYSTEM AND SUPPORT TECHNIQUES (19p) V

The Malawi standard specifies requirements for a food safety management system where an organization in the food chain needs to demonstrate its ability to control food safety hazards in order to ensure that food is safe at the time of human consumption.

It is applicable to all organizations, regardless of size, which are involved in any aspect of the food chain and want to implement systems that consistently provide safe products. The means of meeting any requirements of the draft standard can be accomplished through the use of internal and/or external resources.
MS-ISO /TS 22002-1:2009  PREREQUISITES PROGRAMMES ON FOOD SAFETY

Part 1: Food manufacturing (19p) V

This Technical Specification specifies requirements for establishing, implementing and maintaining prerequisite programmes (PRP) to assist in controlling food safety hazards.

MS-ISO 22002-3:2013  PREREQUISITE PROGRAMMES ON FOOD SAFETY

Part 3: Farming (22 p) V

This part of ISO 22002 specifies requirements and guidelines for the design, implementation, and documentation of prerequisite programmes (PRPS) that maintain a hygienic environment and assist in controlling food safety hazard in food chain.

MS-ISO 22002-4:2014  PREREQUISITE PROGRAMMES ON FOOD SAFETY

Part 4: Food packaging manufacturing (17 p) V

This Technical Specification specifies requirements for establishing, implementing and maintaining prerequisite programmes (PRPs) to assist in controlling food safety hazards in the manufacture food packaging.

MS-ISO 22003:2014  FOOD SAFETY MANAGEMENT SYSTEMS- REQUIREMENTS FOR BODIES PROVIDING AUDIT AND CERTIFICATION OF FOOD SAFETY MANAGEMENT SYSTEMS (16p) V

This Technical Specification defines the rules applicable for the audit and certification of a food safety management system (FSMS) complying with the requirements given in ISO 22000 (or other sets of specified FSMS requirements), and

– Provides the necessary information and confidence to customers about the way certification of their suppliers has been granted. Certification of FSMSs (named “certification” in this Technical Specification) is a third-party conformity assessment activity (see ISO/IEC 17000:2004, 5.5). Bodies performing this activity are therefore third-party conformity assessment bodies (named “certification body/bodies” in this Technical Specification).


This Technical Specification provides generic guidance that can be applied in the use of ISO 22000.


This international standard specifies how to use the standards for sampling strategies (EN/TS21568), Nucleic acid extraction (ISO 21571), qualitative nucleic acid analysis (ISO 21569), quantitative nucleic acid analysis (21570) and protein-based methods (ISO 21572), and explains their relationship in the analysis of genetically modified organisms in foodstuffs.

MS-ISO 26000:2011  GUIDANCE ON SOCIAL RESPONSIBILITY (106 p) V

This International Standard provides guidance to all types of organizations, regardless of their size or location.
INSTRUMENT TRANSFORMERS – PART 1: CURRENT TRANSFORMERS (M)

Applies to newly manufactured current transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15Hz to 100 Hz. Applies basically to transformers with separate windings, but also to autotransformers.

INSTRUMENT TRANSFORMERS – PART 2: INDUCTIVE VOLTAGE TRANSFORMERS (M)

Applies to new inductive voltage transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15 to 100 Hz. This standard relates basically to transformers with separate windings, but also to autotransformers. It replaces IEC 60186 (1987) plus amendments 1 and 2 only for inductive voltage transformers. IEC 60186 remains in force for capacitive voltage transformers.

INTERNATIONAL ELECTROTECHNICAL VOCABULARY – CHAPTER 826: ELECTRICAL INSTALLATION (2nd edition, 117p)

INTERNATIONAL ELECTROTECHNICAL VOCABULARY – CHAPTER 851: ELECTRIC WELDING (1st edition, 30p)

PAPER-INSULATED METAL-SHEATHED CABLES FOR RATED VOLTAGES UP TO 18/30 KV (WITH COPPER OR ALUMINIUM CONDUCTORS AND EXCLUDING GAS-PRESSURE AND OIL-FILLED CABLES) – PART 2: GENERAL AND CONSTRUCTION REQUIREMENTS (M)

Specifies general and construction requirements for impregnated paper-insulated load-sheathed cables with copper or aluminium conductors from 0.6/1 kV. Tables for 21 different types cable construction are given.

LAMP CAPS AND HOLDERS TOGETHER WITH GAUGES FOR THE CONTROL OF INTERCHANGEABILITY AND SAFETY - PART 1: LAMP CAPS (M)


LAMP CAPS AND HOLDERS TOGETHER WITH GAUGES FOR THE CONTROL OF INTERCHANGEABILITY AND SAFETY - PART 2: LAMP HOLDERS (M)

LAMP CAPS AND HOLDERS TOGETHER WITH GAUGES FOR THE CONTROL OF INTERCHANGEABILITY AND SAFETY – PART 3: GAUGES (M)

TUNGSTEN FILAMENT LAMPS FOR DOMESTIC AND SIMILAR GENERAL LIGHTING PURPOSES - PERFORMANCE REQUIREMENTS (M)

Applies to tungsten filament incandescent lamps for general lighting services (GLS) which comply with the safety requirements in IEC 60432-1.1

POWER TRANSFORMERS – PART 1: GENERAL (2nd edition, 87p)(M)

This part of international standard IEC 60076 applies to three-phase and single-phase power transformers (including auto-transformers) with the exception of certain categories of small and special transformers such as:

- Single-phase transformers with rated power less than 1 kVA and
three-phase transformers less than 5 kVA.;  
- Instrument transformers;  
- Transformers for static convertors;  
- Traction transformers mounted on rolling rocks;  
- Starting transformers;  
- Testing transformers;  
- Welding transformers.

MS-IEC 60076-SER-4:2002  

This part of IEC 60076 gives guidance and explanatory comments on the existing procedure for lightning and switching impulse testing of power transformers to supplement the requirements of IEC 60076-3 it is also applicable to the testing of reactors (see IEC 60289), modifications to power transformer procedures being indicated where required.

MS-IEC 60076-SER-5:2000  
POWER TRANSFORMERS - PART 5: ABILITY TO WITHSTAND SHORT CIRCUIT (M)

Specifies the design and construction of transformers to withstand the thermal and dynamic effects of external short circuits under specified conditions. Includes tests to demonstrate the ability to withstand short circuit. Applies to transformers as defined in the scope of IEC 60076-1.

MS-IEC 60076-SER-11  
POWER TRANSFORMERS – PART 11: DRY – TYPE TRANSFORMERS (M)

The object of this technical report is to give general information about the systems of plugs and socket-outlets for household and similar purposes which are used in the IEC countries. The report only contains National Systems which are commonly used in homes and offices. It is therefore limited to systems for a.c. with a rated voltage above 50 V but not exceeding 440 V, intended for household and similar purposes, either indoors or outdoors.

MS-IEC 60083:2006  
PLUGS AND SOCKET – OUTLETS FOR DOMESTIC AND SIMILAR GENERAL USE STANDARDIZED IN MEMBER COUNTRIES OF IEC (M)

The object of this technical report is to give general information about the systems of plugs and socket-outlets for households and similar purposes which are used in the IEC countries. The report only contains National Systems which are commonly used in homes and offices. It is therefore limited to systems for a.c. with a rated voltage above 50 V but not exceeding 440 V, intended for household and similar purposes, either indoors or outdoors.

MS-IEC 60086-1:2000  
PRIMARY BATTERIES – PART 1: GENERAL

Standardizes primary batteries based on standardized electro-chemical systems, it specifies the physical dimensions, the discharge test conditions, and the discharge performance requirements.

MS-IEC 60086-2:2001  
PRIMARY BATTERIES - PART 2: PHYSICAL AND ELECTRICAL SPECIFICATIONS (M)

Applicable to primary batteries based on standardized electro-chemical systems, it specifies the physical dimensions. The discharge test conditions, and the discharge performance requirements.
PRIMARY BATTERIES – PART 3: WATCH BATTERIES (M)

 Specifies dimensions, designation, methods of tests and requirements for primary batteries for watches. In several cases, a menu of test methods is given. When presenting battery electrical characteristics and/or performance data, the manufacturer specifies the test method used.

PRIMARY BATTERIES – PART 4: SAFETY OF LITHIUM BATTERIES (M)

 Specifies tests and requirements for primary lithium batteries to ensure their safe operation under intended use or reasonably foreseeable misuse.

PRIMARY BATTERIES – PART 5: SAFETY OF BATTERIES WITH AQUEOUS ELECTROLYTE (M)

 Specifies tests and requirements for primary batteries with aqueous electrolyte to ensure their safe operation under normal use and reasonably foreseeable misuse.

LEAD-ACID STARTER BATTERIES – PART 1: GENERAL REQUIREMENTS AND METHODS OF TEST (M)

 This part of IEC 60095 is applicable to lead-acid batteries with a nominal voltage of 12 V, used primarily as a power source for the starting and igniting of internal combustion engines, lighting and for auxiliary equipment or internal combustion engine vehicles. These batteries are commonly called "starter batteries".

LEAD-ACID STARTER BATTERIES – PART 2: DIMENSIONS OF BATTERIES AND DIMENSIONS AND MARKING OF TERMINAL (M)

 Applies to lead-acid batteries used for starting, lighting and ignition of passenger automobiles and light commercial vehicles with a nominal voltage of 12 V fastened to the vehicles by means of ledges on the long sides of the battery case, two alternative admissible means are specified in Section Three. Specifies:

– the main dimensions of starter batteries of four standard series;
– the location of the positive and negative terminals with respect to the fastening system;
– the dimensions of tapered terminal of starter batteries;
– the making of the polarity.

LEAD-ACID STARTER BATTERIES – PART 4: DIMENSIONS OF BATTERIES FOR HEAVY TRUCKS (M)

 Applies to lead-acid batteries for starting, lighting and igniting of heavy trucks.

RADIO-FREQUENCY CABLES. PART 0-1: GUIDE TO THE DESIGN OF DETAIL SPECIFICATION – COAXIAL CABLES (M)

 Gives recommendations for design parameters, including nominal characteristic impedances and diameter over dielectric, and guidance for the design of radio-frequency coaxial cables with braid, metallic tapes or tubular outer conductors. This edition supersedes the first edition of IEC 60096-0 (1970).

RADIO-FREQUENCY CABLES. PART 1: GENERAL REQUIREMENTS AND MEASURING METHODS (M)

 Relates to flexible or semi-flexible radio-frequency cables of coaxial or twin conductor types designed for use in radio-communication equipment and in...
electronic devices employing similar techniques. The dielectric may be of solid air-spaced, or semi-air-spaced types, consisting of a thermoplastic of low-loss polymeric resin, a thermosetting compound, or a mineral material. Establishes uniform requirements for judging the electrical, climatic and mechanical properties of radio-frequency cables and describes test methods.

MS-IEC 60096-2:1961 RADIO-FREQUENCY CABLES. PART 2: RELEVANT CABLE SPECIFICATIONS (CONSOLIDATED EDITION) (M)


MS-IEC 60096-3:1982 RADIO-FREQUENCY CABLES. PART 3: GENERAL REQUIREMENTS AND TESTS FOR SINGLE-UNIT COAXIAL CABLES FOR USE IN CABLED DISTRIBUTION SYSTEMS (M)

Specifies the general requirements and tests applicable to single-unit coaxial cables for use in cabled distribution systems.

MS-IEC 60096-4-1:1990 RADIO-FREQUENCY CABLES. PART 4: SPECIFICATION FOR SUPERSCREENED CABLES – SECTION ONE: GENERAL REQUIREMENTS AND TEST METHODS (M)

Covers the requirements of superscreened cables and is divided into two sections. This section (Section 1) specifies general requirements and test methods.

MS-IEC 60155:1993 GLOW-STARTERS FOR FLUORESCENT LAMPS (M)

Specifies interchangeable starters used with pre-heat tubular fluorescent lamps and should be used in conjunction with corresponding publications for fluorescent lamps and their ballasts.


These test methods cover procedures for the determination of insulation resistance without discrimination between the volume and surface resistances involved. Because the test specimens are simply and easily prepared, these methods are particularly useful for rapidly determining values which will give a general indication of quality when great accuracy is not required.

MS-IEC 60173:1964 COLOURS OF THE CORES OF FLEXIBLE CABLES AND CORDS (M)

Lays down a standard colour identification for the earthing core in flexible cables and cords with not more than five cores.


This standard specifies mechanical 0.00, electrical and climatic test methods for low-frequency cables and wires designed for use in telecommunication inside plant and equipment and in electronic devices employing similar techniques.
MS-IEC 60189-2:1989  
LOW-FREQUENCY CABLES AND WIRES WITH PVC INSULATION AND PVC SHEATH. PART 2: CABLES IN PAIRS, TRIPLES, QUADS AND QUINTUPLES FOR INSIDE INSTALLATIONS (M)

Deals with cables construction and dimensions, mechanical requirements, thermal stability and electrical requirements.

MS-IEC 60215:1987  
SAFETY REQUIREMENTS FOR RADIO TRANSMITTING EQUIPMENT (M)

Applies to radio transmitting equipment operating under the responsibility of skilled personnel and deals with protection against electric shock, skin burns, high temperature and fire, implosion and explosion, harmful radiation and miscellaneous hazards. Includes design and construction requirements and test methods to ensure safety or personnel, when the equipment is operating under conditions of normal use and certain fault conditions, when carrying out adjustments, during fault finding, and repair of the equipment: prevention of fire and its spread.

MS-IEC 60227-1:1998  
POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V – PART 1: GENERAL REQUIREMENTS (M)

Specifies marking, core identification and general requirements for the construction of cables. Appendix describes code designation of cables.

MS-IEC 60227-3:1997  
POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V – PART 3: NON-SHEATHED CABLES FOR FIXED Wiring (M)

Specifications for polyvinyl chloride insulated single-core non-sheathed cables for fixed wiring of rated voltages up to and including 450/750 V. This is a consolidated version of IEC 60227-3 (1993) and its Amendment 1 (1997)

MS-IEC 60227-4:1997  
POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V – PART 4: SHEATHED CABLES FOR FIXED Wiring (M)

Details the particular specification for light polyvinyl chloride sheathed cables of rates voltage of 300/500 V

MS-IEC 60227-5:1998  
POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V – PART 5: FLEXIBLE CABLES (CORDS) (M)

Details the particular specifications for polyvinyl chloride insulated flexible cables (cord), of rated voltages up to and including 300/500 V

MS-IEC 60227-6:2001  
POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V – PART 6: LIFT CABLES AND CABLES FOR FLEXIBLE CONNECTIONS (M)

Details the particular specifications for both circular and flat lift cables and cables for flexible connections of rated voltages up to and including 450/750 V. Each cable complies with the appropriate requirements given in IEC 60227-1, and with the particular requirements of this part of IEC 60227
POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750 V– PART 7: FLEXIBLE CABLES SCREENED AND UNSCREENED WITH TWO OR MORE CONDUCTORS (M)

This part of IEC 60227 details the particular specifications for polyvinyl chloride insulated screened and unscreened control cables of rated voltages up to and including 300/500 V.
All cables comply with the appropriate requirements given in IEC 60227-1 and each individual type of cable complies with the particular requirements of this part.

CONDUCTORS OF INSULATED CABLES (M)

Specifies standardized nominal cross-section areas from 0.5 mm² to 2 000 mm², numbers and diameters of wires and resistance values of conductors in electric cables and flexible cords.

Classifies conductors for:

Cables for fixed installations

- Class 1, solid conductors;
- Class 2, stranded conductors.

1. Flexible copper conductors
   - Class 5,
   - Class 6 (more flexible than Class 5)

Includes table of temperature correction factors kt for conductor resistance to correct the measured resistance at 1 °C to 20 °C. Does not apply to conductors for telecommunication purposes. Applies to conductors for pressure cables, conductors in extra-flexible welding cables or in special types of flexible cables for having the cores twisted together with unusually short lays. This publication supersedes IEC 60180 (1965).

METHODS OF MEASUREMENT FOR RADIO TRANSMITTERS – PART 1: GENERAL CHARACTERISTICS FOR BROADCAST TRANSMITTERS (2nd edition, 79p) M

Defines the conditions and methods of measurement to be used to ascertain the performance of a radio transmitter and to make possible the comparison of the results of measurement made by different observers.


This part of 60245 applies to rigid and flexible cables with insulation, and sheath if any, based on vulcanized rubber of rated voltages U₀/U up to and including 450/750 V used in power installations of nominal voltage not exceeding 450/750 V a.c.

RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V – PART 2: TEST METHODS (M)

This part of IEC 60245 gives the test methods specified in all parts of IEC 60245 as far as not laid down in IEC 60811.
MS-IEC 60245-3:1994  RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V - PART 3: HEART RESISTANT SILICONE INSULATED CABLES (M)

Details the particular specifications for silicone rubber insulated cables of rated voltage of 300/500 V.

MS-IEC 60245-4:2004  RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V - PART 4: CORDS AND FLEXIBLE CABLES (M)

Details the particular specifications for rubber insulated and braided cords and for rubber insulated and rubber or polychloroprene or other equivalent synthetic elastomer sheathed cords and flexible cables or rated voltages up to and including 450/750 V.


MS-IEC 60245-6:1994  RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V - PART 6: ARC WELDING ELECTRODE CABLES (M)

Details the particular specifications for rubber insulated lift arc welding electrode cables.

MS-IEC 60245-8:2004  RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V - PART 8: CORDS FOR APPLICATIONS REQUIRING HIGH FLEXIBILITY (M)

Details the particular specifications for rubber or cross-linked polyvinyl chloride insulated and rubber of cross-linked polyvinyl chloride sheathed cords or related voltage 300/300 V. for use in applications where high flexibility is required, for example iron cords.

MS-IEC 60254-1:1997  LEAD-ACID TRACTION BATTERIES – PART 1: GENERAL REQUIREMENTS AND METHODS OF TESTS (M)

Is applicable to lead-acid traction batteries used as power sources for electric propulsion.

MS-IEC 60254-2:2000  LEAD-ACID TRACTION BATTERIES – PART 2: DIMENSIONS OF CELLS AND TERMINAL AND MARKING OF POLARITY ON CELLS (M)

Defines standard values relating to energizing quantities influencing quantities. Fundamental characteristics relating to temperature rises and behaviour in service. Accuracy requirements relating to the characteristic quantity and specified times. Mechanical and electrical requirements. Markings and data. Methods of measurement.

MS-IEC 60269-1:1998  LOW-VOLTAGE FUSES – PART 1: GENERAL REQUIREMENTS (M)

Establishes the characteristics of fuses or parts of fuses (fuse-base, fuse carrier, fuse-link) in such a way that they can be replaced by other fuses or parts of fuses having the same characteristics provided that their dimensions are identical. This publication supersedes IEC 60066 (1953) and IEC 60088 (1957).
LOW-VOLTAGE FUSES – PART 2: SUPPLEMENTARY REQUIREMENTS FOR FUSES FOR USE BY AUTHORIZED PERSONS (FUSES MAINLY FOR INDUSTRIAL APPLICATIONS) (M)

The following characteristics of fuses are specified in addition to IEC Publication 269-1:

- Minimum rated breaking capacities;
- Time-current characteristics;
- 12t characteristics;
- Standard conditions of constructions;
- Power dissipation and acceptance

LOW VOLTAGE FUSES – PART 2-1: SUPPLEMENTARY REQUIREMENTS FOR FUSES FOR USE BY AUTHORIZED PERSONS (FUSES MAINLY FOR INDUSTRIAL APPLICATIONS) – SECTION I TO V : EXAMPLES OF TYPES OF STANDARDIZED FUSES (M)

This standard is divided into five sections, each dealing with a specific example of standardized fuse for use by authorized persons:

- Section I: Fuses wit fuse-links with blade contacts.
- Section II: Fuses with fuse-links with bolted connections.
- Section III: Fuses with fuse-links having cylindrical contact caps.
- Section IV: Fuses with fuse-links with offset blade contacts.
- Section V: Fuses with fuse-links having “gD” and “gN” characteristics.

LOW-VOLTAGE FUSES – PART 3: SUPPLEMENTARY REQUIREMENTS FOR FUSES FOR USE BY UNSKILLED PERSONS (FUSES MAINLY FOR HOUSEHOLD AND SIMILAR APPLICATIONS) (M)

Applies to ‘gG’ fuses used by unskilled persons for domestic and similar applications with rated currents not exceeding 100 A and rated voltages not exceeding 500 V a.c. Replaces IEC 60088 (1957)

LOW-VOLTAGE FUSES – PART 3-1: SUPPLEMENTARY REQUIREMENTS FOR FUSES FOR USE BY UNSKILLED PERSONS (FUSES MAINLY FOR HOUSEHOLD AND SIMILAR APPLICATIONS) – SECTIONS I TO IV

Gives a comprehensive description of the mechanical and electrical characteristics of these fuses and of the relevant tests. Describes six types of standardized fuses: D types fuses; cylindrical fuses (types A, B, C); pin-type fuses; cylindrical fuse links (primarily used in plugs). This new publication is of equal interest to the manufacturer and to the user of fuses namely for household and similar applications.


This section of IEC 60287 is applicable to the conditions of steady-state operation of cables at all alternating voltages up to 5 kV, buried directly in the ground, in ducts, troughs or in steel pipes, both with and without partial drying-out of the soil, as well as cables in air. The term steady-state is intended to mean a continuous constant current (100 % load factor) just sufficient to produce asymptotically the maximum conductor temperature, the surrounding ambient temperature being assumed constant.
This section of IEC 60287 is applicable to the conditions of steady-state operation of cables at all alternating voltages up to 5 kV, buried directly in the ground, in ducts, troughs or in steel pipes, both with and without partial drying-out of the soil, as well as cables in air. The term steady-state is intended to mean a continuous constant current (100 % load factor) just sufficient to produce asymptotically the maximum conductor temperature, the surrounding ambient temperature being assumed constant.

Deals solely with the economic choice of conductor size based on joule losses. Voltage dependent losses have not been considered.

Covers specifications and test methods for unused mineral insulating oils, intended for use in transformers, switchgear and similar electrical equipment. Oils with and without additives are within the scope.

Applies to thermoplastic insulation to be used with low frequency cables and wires.

Applies to string insulator units of the cap and pin type with insulating parts of ceramic material or glass, intended for a.c. overhead lines with a nominal voltage greater than 1 000 V and a frequency not greater than 100 Hz. It also applies to insulators of similar design used in substations.

This standard applies to plugs and socket outlets, cable couplers and appliance couplers, with a rated operating voltage not exceeding 690 V d.c. or a.c. and 500 Hz a.c., and a rated current not exceeding 250 A, primarily intended for industrial use either indoors or outdoors.

This third edition of IEC 60335-1(1991) and its 1st amendment (1994) covers the general requirements for safety of household appliances. All parts 2s, dealing with particular requirements, should be used in conjunction with this 3rd edition, except parts 2-57 and 2-63.
HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – PART 2-15: PARTICULAR REQUIREMENTS FOR APPLIANCES FOR HEATING LIQUIDS (M)

Deals with the safety of electrical appliances for heating liquids for household and similar purposes, e.g. kettles, coffee-makers, steam cookers. To be used by laymen in light industry and on farms.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – PART 2-21: PARTICULAR REQUIREMENTS FOR STORAGE WATER HEATERS (M)

Applies to stationary non instantaneous storage water heaters intended for heating water to a temperature below its boiling point, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – PART 2-29: PARTICULAR REQUIREMENTS FOR BATTERY CHARGERS (M)

This standard deals with the safety of battery chargers for household and similar use having an output at safety extra-low voltage, their rated voltage being not more than 250 V.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – PART 2-3: PARTICULAR REQUIREMENTS FOR ELECTRIC IRONS (M)

Deals with the safety of electric rooms heaters for household and similar purposes with a rated voltage not more than 250 V for single-phase appliances and 480 V for other appliances.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY - PART 2-39: PARTICULAR REQUIREMENTS FOR COMMERCIAL ELECTRIC MULTI-PURPOSE COOKING PANS (M)

Deals with the safety of electrical commercial multi-purpose cooking pans, not intended for household use. Typical use is in restaurants, canteens, bakeries, butcheries, etc. Their rated voltage is not more than 250 V for single-phase appliances and 480 V for other appliances. It also covers the electrical part of appliances using other forms of energy.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY - PART 2-45: PARTICULAR REQUIREMENTS FOR PORTABLE HEATING TOOLS AND SIMILAR APPLIANCES (M)

Deals with the safety of portable electric heating tools and similar appliances, their rated voltage being not more than 250 V.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY - PART 2-47: PARTICULAR REQUIREMENTS FOR COMMERCIAL ELECTRIC BOILING PANS (M)

Deals with the safety of electrical commercial boiling pans. They are not intended for household use. As examples, they are used in restaurants, canteens, bakeries and butcheries. Their rated voltage is not more than 250 V for single-phase appliances and 480 V for other appliances. The electrical part of appliances making use of other energy heat sources is covered.
HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY - PART 2-59: PARTICULAR REQUIREMENTS FOR INSECT KILLERS (M)

Applies to electric insect killers for household and similar purposes. It does not apply to appliances emitting vaporized chemicals, appliances emitting ultrasonic waves, or appliances used in corrosive or explosive atmospheres.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY - PART 2-71: PARTICULAR REQUIREMENTS FOR ELECTRICAL HEATING APPLIANCES FOR BREEDING AND REARING ANIMALS (M)

Deals with the safety of all kinds of electrical heating appliances for animals used for livestock keeping and breeding such as: heat radiating appliances, electrical sitting-hens, incubators, chicken breeding units and heating plates for animals. The rated voltage of these appliances is not more than 250 V for single-phase operation and 480 V for other operations.

TUNGSTEN HALOGEN LAMPS (NON VEHICLE) (M)

This standard specifies dimensions and characteristics of tungsten halogen lamps.

ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 4-41: PROTECTION FOR SAFETY – PROTECTION FOR SAFETY – PROTECTION AGAINST ELECTRIC SHOCK (M)

Specifies essential requirements regarding protection against electric shock, including basic protection (protection against direct contact) of persons and livestock. It deals also with the application and co-ordination of these requirements in relation to external influences.

ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 4-42: PROTECTION FOR SAFETY – PROTECTION AGAINST THERMAL EFFECTS (M)

Persons, fixed equipment, and fixed materials adjacent to electrical equipment shall be protected against harmful effects of heat developed by electrical equipment, or thermal radiation, particularly the following effects:

- Combustion or degradation of materials;
- Risk of burns;
- Impairment of the safe function of installed equipment.

ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 4-43: PROTECTION FOR SAFETY – PROTECTION AGAINST OVERCURRENT (M)

Describes how live conductors are protected by one or more devices for automatic eruption of the supply in the event of overload (see clause 433) and short-circuits (see clause 434) except in cases where the overcurrent is limited in accordance with clause 436 or by the conditions described in 433.3, or 434.3 are met. Further, protection against overload and against short circuits shall be co-ordinated in accordance with clause 435.

ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 5-51: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT – COMMON RULES (M)

This part of IEC 60364 deals with the selection of equipment and its erection. It provides common rules for compliance with measures of protection for safety requirements for proper functioning for intended use of the installation, and requirements appropriate to the external influence foreseen.
MS-IEC 60364-5-52:2001

ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 5-52: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT – WIRING SYSTEMS (M)

Part 5-52 of IEC 60364 deals with the selection and selection and erection of wiring systems.

MS-IEC 60364-5-53:2002

ELECTRICAL INSTALLATIONS OF BUILDINGS – PART 5-53: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT – ISOLATION, SWITCHING AND CONTROL (M)

Deals with general requirements for isolation, switching and control and with the requirements for selection and erection of the devices provided to fulfil such functions.

MS-IEC 60364-5-54:2002

ELECTRICAL INSTALLATIONS OF BUILDINGS - PART 5-54: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT - EARTHING ARRANGEMENTS, PROTECTIVE CONDUCTORS AND PROTECTIVE BONDING CONDUCTORS (M)

Covers requirements for low voltage generating sets. Particular requirements for supplies for safety services are given in clause 556 while clause 559 applies to the selection and erection of luminaires and lighting installations intended to be part of the fixed installation.

Electrical standby supply systems, other than for safety services, are outside the scope of this standard.

MS-IEC 60364-5-55:2002

ELECTRICAL INSTALLATIONS OF BUILDINGS - PART 5-55: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT - OTHER EQUIPMENT (M)

Covers requirements for low voltage generating sets. Particular requirements for supplies for safety services are given in clause 556 while clause 559 applies to the selection and erection of luminaires and lighting installations intended to be part of the fixed installation.

Electrical standby supply systems, other than for safety services, are outside the scope of this standard.

MS-IEC 60364-6-61:2006

ELECTRICAL INSTALLATIONS OF BUILDINGS - PART 6-61:VERIFICATION – INITIAL (M)

It provides requirements for initial and periodic verification of an electrical installation.

Clause 61 provides requirements for initial verification by inspection and testing, of electrical installations to determine, as far as reasonably practicable, whether the requirements of the other parts of IEC 60364 have been met and requirements for the reporting of the results of the initial verification. The initial verification takes place upon completion of a new installation or completion of additions or alterations to exiting installations.

Clause 62 provides requirements for periodic verification of an electrical installation to determine, as far as reasonably practicable, whether the installation and all its constituent equipment are in a satisfactory condition for use and requirements for the reporting of the results of the periodic verification.

MS-IEC 60364-7-705:1984

ELECTRICAL INSTALLATIONS OF BUILDINGS. PART 7: REQUIREMENTS FOR SPECIAL INSTALLATIONS OR LOCATIONS. SECTION 705: ELECTRICAL INSTALLATIONS OF AGRICULTURAL AND HORTICULTURAL PREMISES (M)

The particular requirements of this section apply to all parts of fixed installations of agricultural and horticultural premises outdoors and indoors and to locations where livestock are kept (such as stables, chicken-houses, pigeries, feed-processing locations, lefts and storages for hay, straw and fertilizers)
This section of IEC 364-7 deals with external lighting installations. The requirements apply particularly to:

- Lighting installations e.g. for roads, parks, gardens, public places, sporting areas, illuminations of monuments and floodlighting;
- Other equipment incorporating lighting such as telephone kiosks, bus shelters, advertising panels, town plans, roads signs.

These rules do not apply to:

- Public lighting installations which are part of public power grid and operated by a public supply authority who is responsible for and has taken all necessary measures regarding safety;
- Temporary festoon lighting;
- Road traffic signal systems;
- Luminaire units which are fixed to the outside of a building and are supplied directly from the internal wiring of that building.

For lighting installations for swimming pools and fountains, see IEC 364-7-702.

Applies to insulators of ceramic material or glass for use on a.c. overhead power lines with a nominal voltage greater than 1 000 V and a frequency not greater than 100 Hz. Also applies to insulators for use on d.c. overhead electric traction lines and applies to string insulator units, rigid overhead line insulators and to insulators of similar design when used in substations.

This recommendation established sampling plans and procedures for inspection by attributes. When specified by the responsible authority, this recommendation shall be called up in the specification, contract, inspection instructions or other documents and the provisions set forth herein shall govern. The “response authority” shall be designated in one of the above documents.

This International Standard specifies outside diameters for conduits used in electrical installations and the dimensional requirements for threads. It also specifies the dimensional requirements for threads used in associated fittings. It is not applicable to extra-heavy duty rigid steel conduits specified in IEC 981.

Specifies the safety and interchangeability requirements of tungsten filament incandescent lamps for general lighting service having:

- Rated wattage up to and including 200 W;
- Rated voltage of 50 V to 250 V inclusive;
• Bulbs of the A, B, C, G, M, P, PS, PAR or R shapes, or other bulb shapes where the lamps are intended to serve the same purpose as
• lamps with the foregoing bulb shapes;
• Bulbs with all kinds of finishes;
• Caps B15d, B22d, E12, E14, E17, E26, E26d, E26/50 x 39, E27 or E27/51 x 39

As far as is reasonably practicable, this standard is also applicable to lamps with bulbs and caps other than those mentioned above, but which serve the same purpose.

MS-IEC 60432-2:2005 INCANDESCENT LAMPS - SAFETY SPECIFICATIONS - PART 2: TUNGSTEN HALOGEN LAMPS FOR DOMESTIC AND SIMILAR GENERAL LIGHTING PURPOSES (M)

Specifies the safety and the related interchangeability requirements of tungsten halogen lamps for general lighting service. It covers those tungsten halogen lamps that are used as direct replacements for conventional tungsten filament lamps as well as new tungsten halogen lamps which have no correspondence in IEC 60432-1, but for which the safety and interchangeability requirements are treated by this standard in conjunction with IEC 60432-1. These tungsten halogen lamps have the following characteristics:

• Rated wattage up to and including 250 W;
• Rated voltage of 50 V to 250 V inclusive;
• Caps B115d, B22d, E12, E14, E17, E26, E26D, E26/50 X 39, E27 or E27/51 x 39

MS-IEC 60433:1998 INSULATORS FOR OVERHEAD LINES WITH A NOMINAL VOLTAGE ABOVE 1 000 V - CERAMIC INSULATORS FOR A.C SYSTEMS - CHARACTERISTICS OF INSULATORS UNITS OF THE LONG ROD TYPE (M)

Prescribes specified values for the electrical and mechanical characteristics and for the principal dimensions of string insulator units of the long rod type with insulating parts of ceramic material intended for a.c. overhead lines with a nominal voltage greater than 1 000 V and a frequency not greater than 100 Hz. It is also applicable to insulators of similar design, used in substations. Applies also to string insulator units: -of the long rod type either with a clevis at both ends for coupling with a tongue, or with a socket at both ends for coupling with a pin ball - with external metal fittings -for use on overhead lines situated in slightly polluted areas, and the creepage distances given in Tables I and II have been established accordingly -and insulators of similar design, used in substations. This standard may be regarded as a provisional standard for insulators for d.c. overhead lines.

MS-IEC 60530:1975 METHODS FOR MEASURING THE PERFORMANCE OF ELECTRIC KETTLES AND JUGS FOR HOUSEHOLD AND SIMILAR USE (M)

Applies to electric kettles and jugs for household and similar use with a capacity up to 2.5 l.

MS-IEC 60567:2005 OIL-FILLED ELECTRICAL EQUIPMENT - SAMPLING OF GASES AND OF OIL FOR ANALYSIS OF FREE AND DISSOLVED GASES – GUIDANCE (M)

Deals with the techniques for sampling free gases from gas- collecting relays and for sampling oil from oil-filled equipment such as power and instrument
transformers, reactors, bushings, oil-filled cables and oil-filled tank-type capacitors. Three methods of sampling free gases and three methods of sampling oil are described. The choice between the methods often depends on the apparatus available and on the quantity of oil needed for analysis.

MS-IEC 60598-1:2003  
**LUMINAIRES - PART 1: GENERAL REQUIREMENTS AND TESTS (M)**

Covers general requirements for the classification and marking of luminaires and for their mechanical and electrical construction, together with related tests. Is applicable to luminaires for use with tungsten filaments, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V. This publication supersedes IEC 60162 (1972).

MS-IEC 60598-2-3:2000  
**LUMINAIRES - PART 2-3: PARTICULAR REQUIREMENTS - LUMINAIRES FOR ROAD AND STREET LIGHTING (M)**

Specifies requirements for luminaires for road and street lighting, for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V.

MS-IEC 60598-2-5:1992  
**LUMINAIRES - PART 2-5: PARTICULAR REQUIREMENTS - FLOOD LIGHTS (M)**

Specifies requirements for floodlights for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V.

MS-IEC 60614-2-1:1993  
**SPECIFICATION FOR CONDUITS FOR ELECTRICAL INSTALLATIONS. PART 2: PARTICULAR SPECIFICATIONS FOR CONDUITS. SECTION ONE: METAL CONDUITS (M)**

This clause of Part 1 is applicable except as follows:

*Addition:*

This standard specifies requirements for threadable and non-threadable plain rigid metal conduits.

MS-IEC 60614-2-2:1980  
**SPECIFICATION FOR CONDUITS FOR ELECTRICAL INSTALLATIONS. PART 2: PARTICULAR SPECIFICATIONS FOR RIGID PLAIN CONDUITS OF INSULATING MATERIALS (M)**

This clause of Part 1 is applicable except as follows:

*Addition:*

This standard specifies requirements for rigid non-flame propagating plain conduits of insulating materials.

MS-IEC 60614-2-5:1992  
**SPECIFICATIONS FOR CONDUITS FOR ELECTRICAL INSTALLATIONS - PART 2: PARTICULAR SPECIFICATIONS FOR CONDUITS - SECTION 5: FLEXIBLE CONDUITS (M)**

This clause of part 1 is applicable except as follows:

*Addition:*

This standard specifies requirements for flexible conduits of metal, insulating or composite materials for the protection of conductors and cables in electrical installations. It does not cover requirements for conduit fittings.
This clause of Part 1 is applicable except as follows:

Addition:

This standard specifies requirements for pliable conduits of metal or composite materials for the protection of conductors and cables in electrical installation. It does not cover requirements for conduit fittings.

MS-IEC 60649:1979  CALCULATION OF MAXIMUM EXTERNAL DIAMETER OF CABLES FOR INDOOR INSTALLATIONS (M)

Specifies the method of calculation for maximum external diameter of low frequency cables for indoor installations. Gives an example of calculation of diameter over assembly for cable with screened elements. Has the status of a technical report.

MS-IEC 60652:2002  LOADING TESTS ON OVERHEAD LINE STRUCTURES (M)

Codifies the methods of testing supports for overhead lines.

It is applicable to the testing of supports and structures of overhead lines for voltages above 45 kV; it can also serve as reference to the testing of lower voltage support.

There is no restriction on the type of material used in the fabrication of the supports which may include, but not be limited to, metallic alloys, concrete, timber, laminated wood and composite materials. If required by the client, this standard may also be applied to the testing of telecommunication supports, railways/tramway overhead electrification supports, electrical substation gantries, street lighting columns, wind turbine towers, ski-lift supports, etc.

Test on reduced scale models of supports are not covered by this standard.

MS-IEC 60665:1980  A.C ELECTRIC VENTILATING FANS AND REGULATORS FOR HOUSEHOLD AND SIMILAR PURPOSES (M)

Specifies the performance and the corresponding methods of test of ventilating fans for household and similar purposes intended for air forcing and exhaust, not exceeding 0.5 m in size, driven by single-phase a.c. motors having a power consumption not exceeding 500 W (including any associated regulators), for use on single-phase a.c. circuits not exceeding 250 V. Applies to ventilating fans such as wall fans, window fans, kitchen fans, etc.

MS-IEC 60669-1:2000  SWITCHES FOR HOUSEHOLD AND SIMILAR FIXED-ELECTRICAL INSTALLATIONS - PART 1: GENERAL REQUIREMENTS (M)

Applies to manually operated general purpose switches for a.c. only, with a rated voltage not exceeding 440 V and a rated current not exceeding 63 A.

MS-IEC 60672-2  CERAMIC AND GLASS INSULATING MATERIALS - PART 2: METHODS OF TEST (M)

Applicable to ceramic, glass and glass-ceramic materials to be used for electrical insulation purposes. Specifies methods of test. Intended to provide test results typical of the material from which the test pieces are processed. Since, in the majority of cases, ceramic components for insulating purposes are of rather different size and shape to test pieces, the results of such tests provide only a guide to the actual properties of components. The limitations imposed by the method of forming and processing are discussed where relevant.
MS-IEC 60672-3:1997  CERAMIC AND GLASS INSULATING MATERIALS - PART 3: SPECIFICATIONS FOR INDIVIDUAL MATERIALS (M)

Applicable to ceramic, glass-ceramic, glass-mica and glass materials for electrical insulating purposes giving a classification of materials and typical numerical values for the major characteristics.

MS-IEC 60826:1991  DESIGN CRITERIA OF OVERHEAD TRANSMISSION LINES (M)

Specifies the loading and strength requirements of overhead lines derived from reliability based design principles. These requirements apply to lines 45 kV and above, but can also be applied to lines with a lower nominal voltage.

It also provides a framework for the preparation of national standards dealing with overhead transmission lines, using reliability concepts and employing probabilistic or semi-probabilistic methods. These national standards will need to establish the local climatic data for the use and application of this standard, in addition to other data that are country specific.

Although the design criteria in this standard apply to new lines, many concepts can be used to address the reliability requirements for refurbishments for refurbishment and uprating of existing lines. This standard does not cover the detailed design of line components such as towers, foundations, conductors or insulators.

MS-IEC 60865-1:1993  SHORT-CIRCUIT CURRENTS - CALCULATION OF EFFECTS -PART 1: DEFINITIONS AND CALCULATION METHODS (M)

It is applicable to the mechanical and thermal effects of short circuit currents. It contains standardized procedures for the calculation of the effects of the short-circuit currents in two sections as follows:

Section 2 – The electromagnetic on rigid conductors and flexible conductors.

Section 3 – the thermal effect on bare conductors and electrical equipment.

For cables and insulated conductors reference is made, for example, to IEC 949 and IEC 986. Only a.c. systems for rated voltages up to and including 420 kV are dealt with in this standard.

MS-IEC 60884-1:1987  PLUGS, SOCKET-OUTLETS AND COUPLES FOR HOUSEHOLD AND SIMILAR PURPOSES - PART 1: GENERAL REQUIREMENTS (M)

Applies to plugs and fixed or portable socket-outlets for a.c. only with or without earthing contact, with a rated voltage greater than 50 V but not exceeding 440 V and a rated current not exceeding 32 A, intended for household and similar purposes, either indoors or outdoors.

The rated current is limited to 16 A maximum for fixed socket-outlets provided with screwless terminals.

This standard does not cover requirements for flush mounting boxes; however, it covers only those requirements for surface-type mounting boxes which are necessary for the tests on the socket-outlet.
PLUGS AND SOCKET-OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES. - PART 2: PARTICULAR REQUIREMENTS FOR FUSED PLUGS (M)

This clause of Part 1 is applicable except as follows:

*Addition*

This standard applies where fuses are primarily intended to protect the flexible cable or cord (e.g. with ring circuits). The fuses are not intended to protect appliances or parts of them against overload.

PLUGS AND SOCKETS-OUTLETS OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES. - PART 2: PARTICULAR REQUIREMENTS FOR SOCKET-OUTLETS FOR APPLIANCES (M)

Applies to socket-outlets integrated or intended to be incorporated in or fixed to appliances.

ELECTRICAL TEST METHODS FOR ELECTRIC CABLES. PART 1: ELECTRICAL TESTS FOR CABLES, CORDS AND WIRES FOR VOLTAGES UP TO AND INCLUDING 450/750 V (M)

The electrical test methods described in this standard are given as a guide to be followed for testing wires, cords and cables in case the relevant cable standard does not prescribe a different electrical test method.

The electrical tests are applicable only to:

- Unsheathed wires, cords and cables;
- Cores taken from complete sheathed cords and cables all having a maximum rated voltage up to and including 450/750 V

ZINC-COATED STEEL WIRES FOR STRANDED CONDUCTORS (M)

Applies to zinc-coated steel wires used in the construction and/or reinforcement of conductors for overhead power transmission purposes.

It is intended to cover all wires used in constructions where the individual wire diameters, including coating, are in the range of 1.25 mm to 5.50 mm. Three grades of steel are included to reflect the needs of conductor users: regular steel, high strength and extra high strength steel.

Two classes of coating represented by minimum zinc mass per unit area are included: Class 1 and Class 2.

HARD-DRAWN ALUMINIUM WIRE FOR OVERHEAD LINE CONDUCTORS (M)

Is applicable to hard-drawn aluminium wires for the manufacture of stranded conductors for overhead power transmission purposes. It specifies the mechanical and electrical properties of wires in the diameter range 1.25 mm to 5.00 mm.
This part of IEC 60896 is applicable to lead-acid cells and batteries which are designed for service in fixed locations (i.e. not habitually to be moved from place to place) and which are permanently connected to the load and to the d.c. power supply. Batteries operating in such applications are called “stationary batteries”.

This standard gives requirements for the classification, selection, packaging, marking, calibration and care of crystalline silicon reference solar cells.

This standard applies to the following crystalline silicon photovoltaic devices for terrestrial applications:

a) Single solar cells with or without a protective cover
b) Sub-assemblies of solar cells
c) Flat modules

This standard is not applicable to solar cells designed for operation in concentrated sunlight, to modules embodying concentrators, nor to hybrid collectors which in addition to generating electricity, transfer heat to fluids for use in thermal systems.

This standard applies to the IEC system of plugs and socket-outlets rated 16 A 250 V a.c. for household and similar purposes for the connection of equipment to distribution systems having nominal voltages between 200 V and 250 V a.c., in so far as dimensional requirements are concerned.

This standard does not apply to plugs and socket-outlets rated 15A 125 V a.c. for household and similar purposes for the connection of equipment to distribution systems having nominal voltages between 100 V and 125 V a.c.

This standard specifies performance requirements from ballasts, excluding resistance types for use in a.c. supplies up to 1 000v at 50 Hz or 60 Hz, associated with tubular fluorescent lamps, with pre-heated cathodes operated with or without a starter or starting device and having rated wattages, dimensions and characteristics as specified in IEC 60081 and 60901. It applies to complete ballasts and their component parts such as resistors, transformers and capacitors.

A.C supplied electronic ballasts for tubular fluorescent lamps for high frequency operation specified in IEC 61347 – 2 -3 are excluded from the scope of standard.
**MS-IEC 60923:2005**

**AUXILIARIES FOR LAMPS - BALLATS FOR DISCHARGE LAMPS (EXCLUDING TUBULAR FLUORESCENT LAMPS) - PERFORMANCE REQUIREMENTS (M)**

Specifies performance requirements for ballasts for discharge lamps such as high pressure mercury vapour, how-pressure sodium vapour, and high pressure requirements for a particular type of ballast. This standard covers inductive type ballasts for use in a.c. supplies up to 1500 v at 50 Hz to 60 Hz associated with discharge lamps having rated wattages, dimensions and characteristics as specified in the relevant IEC lamp standards.

**MS-IEC 60925:2001**

**DC SUPPLIED ELECTRONIC BALLATS FOR TUBULAR FLUORESCENT LAMPS - PERFORMANCE REQUIREMENTS (M)**

Specifies performance requirements for star devices (starter and ignitors) for tubular fluorescent and other discharge lamps for use on a.c supplies up to 1000 v at 50 Hz or 60Hz, which produce starting pulses not greater than 5 kV. It should be read in conjunction with IEC 60926.

**MS-IEC 60927:2004**

**AUXILIARIES FOR LAMPS - STARTING DEVICES (OTHER THAN GLOW STARTERS) - PERFORMANCE REQUIREMENTS (M)**

Specifies performance requirements for starting device (starter and ignitors) for tubular fluorescent and other discharge lamps for use on a.c. supplies up to 1 000 V at 50 Hz or 60 Hz, which produce starting purses not greater than 5 kV. It should be read in conjunction with IEC 60926.

**MS-IEC 60974-11:2004**

**ARC WELDING EQUIPMENT - PART 11: ELECTRODE HOLDERS (M)**

This part of IEC 60974 is applicable to electrode holders for manual metal arc welding with electrodes up to 10 mm in diameter.

It is not applicable to electrode holders for under water welding.

This part of IEC 60974 specifies safety and performance requirements of electrode holders.

**MS-IEC 60974-12:2005**

**ARC WELDING EQUIPMENT - PART 12: COUPLING DEVICE FOR WELDING (M)**

This part of IEC 60974 is applicable to coupling devices for cables for welding and allied processes designed for connection and disconnection without using tools.

This part of IEC 60974 specifies safety and performance requirements of coupling devices.

This part of IEC 60974 is not applicable to coupling devices for underwater welding.

**MS-IEC 61035-1:1990**

**SPECIFICATION FOR CONDUIT FITTINGS FOR ELECTRICAL INSTALLATIONS PART 1: GENERAL REQUIREMENTS (M)**

This International Standard specifies requirements for conduit fittings for use with conduits for the protection of conductors and/or cables in electrical installations, and type tests for the quality of joints of conduit fittings to conduit.
**SPECIFICATION FOR CONDUIT FITTINGS FOR ELECTRICAL INSTALLATIONS - PART 2: PARTICULAR SPECIFICATIONS - SECTION 1: METAL CONDUIT FITTINGS (M)**

This clause of part 1 is applicable except as follows:

Addition:
This section of IEC 1035-2 specifies requirements for metal conduit fittings, for use with circular, threadable or non-threadable conduits complying with IEC 614.

This standard is not applicable to fittings for use with flexible conduits (IEC 614-2-5)

**SPECIFICATION FOR CONDUIT FITTINGS FOR ELECTRICAL INSTALLATION - PART 2: PARTICULAR SPECIFICATIONS - SECTION 2: CONDUIT FITTINGS OF INSULATING MATERIAL (M)**

This clause of part 1 is applicable except as follows:

Addition:
This section of 1035-2 specifies requirements for conduit fittings of insulating material, for use with circular conduits complying with IEC 614.

**GENERAL CLASSIFICATION OF INSULATING LIQUIDS (M)**

This International Standard defines the detailed classification of family N (insulating liquids) which belongs to class L (lubricants, industrial oils and related products) in accordance with ISO 8681 and ISO 6743-0

**SWITCHES FOR APPLIANCES - PART 1 GENERAL REQUIREMENTS (M)**

This International Standard applies to switches (mechanical or electronic) for appliances actuated by hand, by foot or by other human activity, to operate or control electrical appliances and other equipment for household or similar purposes with a rated voltage not exceeding 440V and a rated current not exceeding 63 A.

**SWITCHES APPLIANCES - PART 2-1: PARTICULAR REQUIREMENT FOR CORD SWITCHES (M)**

This clause of part 1 is applicable except as follows:

Replacement:

1.1 this International Standard IEC 1058-2-1 applies to cord switches for appliances actuated by hand, by foot or by other human activity for use in, on or with appliances and other equipment for household and similar purposes, with a rated voltage not exceeding 250 V and a rated current not exceeding 16 A

1.2 Replacement

This standard applies to switches intended to be connected to a cord.

**CABLE TRUNKING AND DUCTING SYSTEMS FOR ELECTRICAL INSTALLATIONS - PART 1: GENERAL REQUIREMENTS (M)**

Specifies requirements for cable trunking and cable ducting systems intended for the accommodation, and where necessary for the segregation, of conductors, cables or cords and/or other electrical equipment in electrical installations.

This specification does not apply to conduit, cable tray or cable ladder or current
MS-IEC 61084-2-1:1996 CABLE TRUNKING AND DUCTING SYSTEMS FOR ELECTRICAL INSTALLATIONS - PART 2: PARTICULAR REQUIREMENTS - SECTION 1: CABLE TRUNKING AND DUCTING SYSTEMS INTENDED FOR MOUNTING ON WALLS OR CEILINGS (M)

This section of IEC 1084-2 specifies requirements for cable trunking and ducting systems intended for mounting on walls or ceilings. The cable trunking and ducting systems accommodate and where necessary, segregate conductors, cables or cords and other electrical equipment.

The systems are intended to be mounted directly on walls or ceilings, flush or semiflush, or indirectly on walls or ceilings or on structures away from walls or ceilings.

This standard does not apply to conduits, cable trays or cable ladders, electrical accessories e.g. switches, socket-outlets or the like, for which other IEC standards apply, or current carrying parts within the system.


This section of IEC 1084-2 specifies requirements for service poles intended for the accommodation, and where necessary for the segregation, of conductors, cables or cords and/or other electrical equipment in electrical installations. It specifies requirements for service poles intended for either re-locatable or fixed mounting, in any direction as shown in figure 101.

This standard does not apply to conduits, cable trays or cable ladders or to current-carrying parts within the system.

MS-IEC 61089:1991 ROUND WIRE CONCENTRIC LAY OVERHEAD ELECTRICAL STRANDED CONDUCTORS (M)

This International Standard specifies the electrical and mechanical characteristics of round wire concentric lay overhead electrical stranded conductors made of combinations of any of the following metal wires:

a) Hard-drawn aluminium as per IEC 889 designated A1;
b) Aluminium alloy type B as per IEC 104 designated A2;
c) Aluminium alloy type A as per IEC 104 designated A3 (and when applicable to the following cores, as per IEC 888);
d) Regular strength steel, designated S1A or S1B, where A and B are zinc coating classes, corresponding respectively to classes 1 and 2;
e) High strength steel, designated S2A or S2S;
f) Extra high strength steel designated S3A.

MS-IEC 61138:1994 CABLES FOR PORTABLE EARTHING AND SHORT-CIRCUITING EQUIPMENT (M)

This International Standard applies to flexible cables with covering based on ethylene propylene rubber (EPR) or on polyvinyl chloride (PVC) for portable earthing and short-circuiting equipment.

For this type of cable no rated voltage is given as such cables are exclusively intended for earthing and short-circuiting equipment.
MS-IEC 61140:2004 **PROTECTION AGAINST ELECTRIC SHOCK-COMMON ASPECTS FOR INSTALLATION AND EQUIPMENT (M)**

Applies to the protection of persons and animals against electric shock. It is intended to give fundamental principles and requirements which are common to electrical installations, systems and equipment or necessary for their co-ordination. This standard has been prepared for installations system and equipment without a voltage limit.

The requirements of this standard apply only if they are incorporated, or are referred to, in the relevant standards. It is not intended to be used as a stand-alone standard.

MS-IEC 61156-1:2004 **MULTICORE AND SYMMETRICAL PAIR/QUAD CABLE FOR DIGITAL COMMUNICATIONS PART 1 – GENERIC SPECIFICATION (M)**

This part of IEC 61156 is a guide to indoor cables which specifies the definition and requirements of multicore, symmetrical pair and quad cables used in digital communication system such as ISDN, local area networks and data communication systems.

MS-IEC 61156-1-1:2001 **MULTICORE AND SYMMETRICAL PAIR/QUAD CABLE FOR DIGITAL COMMUNICATIONS – PART 1-1: CAPABILITY APPROVAL – GENERIC SPECIFICATION (M)**

This part of IEC 61156 which is a generic specification applies to Capability approval requirements for multicore and symmetrical pair/quad cables for digital communications as specified in IEC 61156-1 series. It specifies the requirements for a manufacturer seeking approval of his capability to design (if applicable), manufacture, inspect, test and release multicore and symmetrical pair/quad cables for digital communications as defined in his Capability Manual.

MS-IEC 61173:1992 **OVER VOLTAGE PROTECTION FOR PHOTOVOLTAIC (PV) POWER GENERATING (M)**

Gives guidance on the protection of overvoltage issues for both stand-alone and grid-connected photovoltaic power generating systems.

MS-IEC 61194:1992 **CHARACTERISTIC PARAMETERS OF STAND-ALONE PHOTOVOLTAIC (PV) SYSTEMS (M)**

This International Standard defines the major electrical, mechanical and environmental parameters for the description and performance analysis of stand-alone photovoltaic systems. The parameters as listed are presented in a standard format for the purposes of procurement and performance analysis:

- Measurement of short-and long-term on-site photovoltaic system performance;
- Comparison between on-site measured and projected performance, both extrapolated to standard test conditions (STC)
**MS-IEC 61215:2005**

**CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES DESIGN QUALIFICATION AND TYPE APPROVAL (M)**

This International Standard lays down IEC requirements for the design qualification and type approval of terrestrial photovoltaic modules suitable for long-term operation in general open-air climates, as defined in IEC 60721-2-1. It applies only to crystalline silicon modules types. A standard for thin-film modules has been published as IEC 61646.

This standard does not apply to modules used with concentrated sunlight.

**MS-IEC 61293:1994**

**MARKING OF ELECTRICAL EQUIPMENT WITH RATINGS RELATED TO ELECTRICAL SUPPLY - SAFETY REQUIREMENTS (M)**

This International Standard establishes minimum requirements (see note 1) and general rules on marking electrical equipment (see note 2) with ratings and other characteristics to enable the proper and safe selection and installation of electrical equipment related to any supply or electricity.

**MS-IEC 61364**

**NOMENCLATURE OF HYDROELECTRIC POWERPLANT MACHINERY**

This technical report provides a basic nomenclature for hydraulic machinery used in hydroelectric power stations and defines their components. The object of the report is to:
- Standardise the names of components by giving a preferred name where more than one exist
- Define components diagrammatically to facilitate their identification;
- Aid in translation of component names from one language to another.

**MS-IEC 61386-1:1996**

**CONDUIT SYSTEMS FOR ELECTRICAL INSTALLATIONS - PART 1; GENERAL REQUIREMENTS (M)**

This part of IEC 1386 specifies requirements and tests for conduit systems, including conduits and conduit fittings, for the protection and management of insulated conductors and/or cables in electrical installations or in communication systems up to 1000 V a.c. and/or 1500 V d.c. This standard applies to metallic, non-metallic and composite conduit systems, including threaded and non-threaded entries which terminate the system. This standard does not apply to enclosures and connecting boxes which come within the scope of IEC 670.

**MS-IEC 61394:1997**

**OVERHEAD LINES - CHARACTERISTICS OF GREASES FOR ALUMINIUM, ALUMINIUM ALLOY AND STEEL BARE CONDUCTORS (M)**

This technical report applies to products designed for corrosion protection of bare electrical overhead conductors in any combination of
- Wires of aluminium and aluminium alloy;
- Wires of steel coated with zinc (galvanized) and zinc alloy with aluminium;
- Wires of steel coated with aluminium.

**MS-IEC 61400-SER-1:2005**

**WIND TURBINE GENERATOR SYSTEMS - PART 1: SAFETY REQUIREMENTS (M)**

Deals with safety aspects, quality assurance and engineering integrity, and specifies safety requirements for design, installation and operation of wind turbine generator systems.
WIND TURBINE GENERATOR SYSTEMS - PART 2: SAFETY OF SMALL WIND TURBINES (M)

Deals with safety philosophy, quality assurance, engineering integrity and specifies requirements for the safety of wind turbines having a swept area smaller than 40m² and generating at a voltage below 1000v a.c. or 1500v d.c.

WIND TURBINE GENERATOR SYSTEMS - PART 12-1: WIND TURBINE POWER PERFORMANCE TESTING (M)

 Specifies a procedure for measuring the power performance characteristics of a single wind turbine generator system (WTGS) and applies to the testing of WTGS of all types and sizes connected to the electrical network.

WIND TURBINE GENERATOR SYSTEMS - PART 23: FULL SCALE STRUCTURAL TESTING OF ROTOR BLADES (M)

 This technical specification provides guidelines for the full-scale structural testing of wind turbine blades and for the interpretation or evaluation of results, as a possible part of a design verification of the integrity of the blade. The following tests are considered in this technical specification:
- Static strength test;
- Fatigue tests;
- Other tests determining blade properties.

SECONDARY CELLS AND BATTERIES FOR PHOTOVOLTAIC ENERGY SYSTEMS (PVES) - GENERAL REQUIREMENTS AND METHODS OF TEST (M)

Gives general information relating to the requirements of the secondary batteries used in photovoltaic energy systems and to the typical methods of test used for the verification of battery performances.

This international standard does not include specific information relating to battery assizing, method of change of PVES design.

MARKING OF SECONDARY CELLS AND BATTERIES WITH THE INTERNATIONAL RECYCLING SYMBOL ISO 7000-1135 (M)

Defines the conditions of utilization of the recycling symbol of the international Organization for standardization (ISO) associated with the chemical symbols indicating the electrochemical system of the battery. This standard applies to lead-acid batteries (pb) and nickel-cadmium batteries (Ni-Cd).

In all cases cells have to be marked individually with the exception of those constituting a battery or a subassembly that cannot be dismantled. For example, traction batteries and stationary batteries should be marked on or near the type of plate only.

The object of this standard is to present recommendations concerning the size of the symbol and its location on the surface of the cells and batteries or on the packages of button cells.

LIVE WORKING - FLEXIBLE CONDUCTOR COVERS (LINE HOSES) OF INSULATING MATERIAL (M)

Is applicable to flexible insulating covers (line hoses) for the protection of workers from accidental contact with live or earthed electrical conductors and for the avoidance of short circuits during live working.
SAFETY OF POWER TRANSFORMERS, POWER SUPPLIES, REACTORS AND SIMILAR PRODUCTS - PART 1: GENERAL REQUIREMENTS AND TESTS (M)

This International Standard deals with safety aspects of power transformers, power supplies, reactors and similar products such as electrical, thermal and mechanical safety.

It covers the following types of dry-type transformers, power supplies, including switch mode power supplies, and reactors, the windings of which may be encapsulated or non-encapsulated.

OVERHEAD ELECTRICAL CONDUCTORS - CALCULATION FOR STRANDES BARE CONDUCTORS (First edition 85p)(M)

Provides information with regards to conductors specified in IEC 61089. Such information includes properties of conductors and useful methods of calculations. It does not discuss all theories and available methods for calculating conductor properties, but provides users with simple methods that provide acceptable accuracies. This publication has the status of a Technical Report - type

LIGHTING PROTECTION - TELECOMMUNICATION LINES - PART 2: LINES USING METALLIC CONDUCTORS (M)

This part of IEC 61663 deals with protection against lighting of outdoor telecommunication lines using metallic conductors (for example, access networks, lines between buildings).

These lines concern:

- Telecommunication lines connecting a switch with a network termination (NTI)
- Telecommunication or signal lines connecting equipment located in different buildings, e.g. ISDN lines or signal lines between computers.

The object of this standard is to protect telecommunication lines and connect equipment against the direct and indirect influence of lighting by limiting the risk of damage due to overvoltages and overcurrents, liable to occur in these lines, to values which are lower than or equal to the tolerable risk of damage. For more details see annex A.

The type of building can also have an effect on the risk assessment of lighting damage to telecommunication lines as well as the physical layout of the equipment installation. However, these and other similar aspects are covered by appropriate specific standards and are beyond the scope of this standard.

Fibre optical cable with metallic pairs in the cable core must be protected, following the requirements of this standard, together with those requirements defined in IEC 61663-1.

ELECTROACoustics - Sound LEVEL Meters - Part 1: Specifications (M)

This standard gives electro-acoustical performance specifications for three kinds of sound measuring instruments:

- A conventional sound level meter that measures exponential time-weighted sound level;
- An integrating-averaging sound level meter that measures time-average sound level; and
- An integrating sound level meter that measures sound exposure level.

© 2017 Catalogue of Malawi standards
MS-IEC 61672-2 ELECT ACOUSTICS - SOUND LEVEL METERS - PART 2: PATTERN EVALUATION TESTS (M)

This part of IEC 61672 provides details of the tests necessary to verify conformance to all mandatory specifications given in IEC 61672-1:2002 for conventional sound level meters, integrating-averaging sound level meters and integrating sound level meters. Pattern evaluation tests apply for each channel of a multi-channel sound level meter, as appropriate. Tests and test methods are applicable to class 1 and class 2 sound level meters. The aim is to ensure that all testing laboratories use consistent methods to perform pattern evaluation tests.

MS-IEC 61683 PHOTOVOLTAIC SYSTEMS – POWER CONDITIONERS – PROCEDURE FOR MEASURING EFFICIENCY (M)

This standard describes guidelines for measuring the efficiency of power conditioners used in stand-alone and utility-interactive photovoltaic systems, where the output of the power conditioner is a stable a.c. voltage of constant frequency or a stable d.c. voltage. The efficiency is calculated from a direct measurement of input and output power in the factory. An isolation transformer is included where it is applicable.

MS-IEC 61701:1995 SALT MIST CORROSION TESTING OF PHOTOVOLTAIC (PV) PUMPING SYSTEMS (M)

Determines the resistance of the module to corrosion from salt mist.

MS-IEC 61702:1995 RATING OF DIRECT COUPLED PHOTOVOLTAIC (PV) PUMPING SYSTEMS (M)

Defines predicted short-term characteristics (instantaneous and for a typical daily period) of direct coupled photovoltaic (PV) water pumping systems. It also defines minimum performance values to be obtained on-site. It does not address PV pumping systems with batteries. The parameters defining the photovoltaic power generating system (PVPGS) and the standard days, used to provide data in figure 1 should be in accordance with IEC standards, in preparation, for use with the reference solar day.

MS-IEC 61721 SUSCEPTIBILITY OF A PHOTOVOLTAIC (PV) MODULE TO ACCIDENTAL IMPACT DAMAGE (RESISTANCE TO IMPACT TEST) (M)

Determines the susceptibility of a module to accidental impact damage.

MS-IEC 61724 PHOTOVOLTAIC SYSTEM PERFORMANCE MONITORING – GUIDELINES FOR MEASUREMENT, DATA EXCHANGE AND ANALYSIS (M)

Recommends procedures for the monitoring of energy-related photovoltaic (PV) system characteristics, and for the exchange and analysis of monitored data. The purpose is the assessment of the overall performance of PV systems.

MS-IEC 61725 ANALYTICAL EXPRESSION FOR DAILY SOLAR PROFILES (M)

Provides a normative equation for analytically deriving a set of data points or a curve of irradiance versus time of day for a synthetic solar day.

MS-IEC 61727 PHOTOVOLTAIC (PV) SYSTEMS – CHARACTERISTICS OF THE UTILITY INTERFACE (M)

This International Standard applies to utility-interconnected photovoltaic (PV power systems operating in parallel with the utility and utilizing static (solid-state) non-islanding inverters for the conversion of DC to AC. This document describes specific recommendations for systems rated at 10 kVA or less, such as may be utilized on individual residences single or three phase. This standard applies to interconnection with the low-voltage utility distribution system.
MS-IEC 61773  OVERTHEADLINE TESTING OF FOUNDATIONS FOR STRUCTURES (M)

Is applicable to the testing procedures for foundations of overhead line structures

MS-IEC 61836  SOLAR PHOTOVOLTAIC ENERGY SYSTEMS – TERMS AND SYMBOLS

MS-IEC 61951-1:2006  SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES - PORTABLE SEALED RECHARGEABLE SINGLE CELLS PART 1: NICKEL-Cadmium (M)

Specifies marking, designation, dimensions, tests and requirements for portable sealed nickel-cadmium small prismatic, cylindrical and button rechargeable single cells, suitable for use in any orientation. This International Standard is an amalgamation of all currently valid standards for portable sealed nickel-cadmium secondary single cells: IEC 60285, 1999, IEC 60509, 1988 and IEC 61440, 1997. It complies with the objective, which was to reduce the number of valid standards.

MS-IEC 62019:2003  ELECTRICAL ACCESSORIES – CIRCUIT-BREAKERS AND SIMILAR EQUIPMENT FOR HOUSEHOLD USE – AUXILIARY CONTACT UNITS (M)

Applies to auxiliary electromechanical contact units associated (or intended to be associated) with circuit breakers for over current protection, and with residual current operated circuit breakers with or without integral overcurrent protection for household and similar installations having a rated voltage not exceeding 440 V a.c. and 250 C d.c. and rated current not exceeding 10 A.

The object of this standard is to state

a) The characteristics of auxiliary contact units;
b) Their electrical and mechanical requirements with respect to

- The various duties to be performed
- The significance of the rated characteristics and of the markings;
- The tests to verify the rated characteristics;
c) The functional requirements to be satisfied by the auxiliary contact units with respect to

- Environmental conditions, including those of enclosed equipments
- Dielectric properties
- Terminals
- Safety of use

MS-IEC 62081:1999  ARC WELDING EQUIPMENT - INSTALLATION AND USE (M)

This Technical Specification describes the general conditions for the installation and use of arc welding equipment that comply with IEC 60974-1. Gives particular information for operators.

MS-IEC PAS 62111:1999  SPECIFICATION FOR THE USE OF RENEWABLE ENERGIES IN RURAL DECENTRALIZED ELECTRIFICATION (M)

This document offers an initial approach to a range of systems for decentralised rural electrification, based on a theoretical analysis of user requirements and of data arising from socio-economic surveys. 8 types of system were selected as responding to three types of need. The electrification systems identified were on stream renewable energy process supply systems, private systems and service systems.
MS-IEC 62133:2002  SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES - SAFETY REQUIREMENTS FOR PORTABLE SEALED SECONDARY CELLS, AND FOR BATTERIES MADE FROM THEM, FOR USE IN PORTABLE APPLICATIONS (M)

Specifies requirements and tests for the safe operation of portable sealed secondary cells and batteries (other than button) containing alkaline or other non-acid electrolytes, under intended use and reasonably foreseeable misuse.

MS-IEC 62305-1:2006  PROTECTION AGAINST LIGHTNING – PART 1: GENERAL PRINCIPLES (M)

This part of IEC 62305 provides the general principles to be followed in the protection against lightning of

- Structures including their installations and contents as well a persons
- Services connected to a structure

The following cases are outside the scope of this standards:

- Railway systems;
- Vehicles, ships, aircraft, offshore installations;
- Underground high pressure pipelines;
- Pipe, power and telecommunication lines not connected to a structure.

MS-IEC 62305-3:2006  PROTECTION AGAINST LIGHTNING – PART 3: PHYSICAL DAMAGE TO STRUCTURES AND LIFE HAZARD (M)

This part of IEC 62305 provides the requirements for protection of a structure against physical damage by means of a lightning protection system (LPS), and for protection against injury to living beings due to touch and step voltages in the vicinity of an LPS (see IEC 62305-1).
PART 2

LIST OF STANDARDS ACCORDING TO ICS CLASSIFICATION

The subject structure is based on the International classification for Standards (ICS)

01 GENERALITIES. TERMINOLOGY.STANDARDISATION. DOCUMENTATION

01.020 Terminology (principles and coordination)
01.40 Vocabularies
01.040.55 Packaging and distribution of goods
  MS 99-2 Packaging sacks – Vocabulary - Part 2 sacks made from thermoplastic film.
  MS 100-1 Packaging sacks – Description and method of measurement for empty paper sacks - Part 1: Empty paper sacks.
  MS 103 Packaging – Pictorial marking for handling of goods.
  MS 1087 Pallets for materials handling-vocabulary
01.040.75 Petroleum and related technologies (vocabularies)
  MS 667-1 Petroleum Industry – Terminology
  MS 667-2 Petroleum Industry – Terminology
01.040.83
  MS 36 Wood adhesives-terminology and classification
01.060 Quantities and units
  MS 174 Rulers for general purpose – Specification
01.070 Colour coding
01.075 Character symbols
01.80 Graphical symbols
  MS-IEC 61836 Solar photovoltaic energy systems – Terms and symbols
01.100 Technical drawings
01.110 Technical product documentation
01.120 Standardization. General rules
01.140 Information sciences. Publishing
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>SOCIOLG.Y.SERVICES.COMPA Y: COMPANY</td>
</tr>
<tr>
<td>03</td>
<td>Sociology. Demography</td>
</tr>
<tr>
<td>03.020</td>
<td>Sociology. Demography</td>
</tr>
<tr>
<td>MS-ISO 26000</td>
<td>Guidance on Social Responsibility</td>
</tr>
<tr>
<td>MS 700</td>
<td>Social responsibility – Requirements for combating child labour</td>
</tr>
<tr>
<td>03.040</td>
<td>Labour. Employment</td>
</tr>
<tr>
<td>03.060</td>
<td>Finances. Banking. Monetary systems. Insurance</td>
</tr>
<tr>
<td>03.080</td>
<td>Services</td>
</tr>
<tr>
<td>03.100</td>
<td>Company organization and management</td>
</tr>
<tr>
<td>03.120</td>
<td>Quality</td>
</tr>
<tr>
<td>03.120.10</td>
<td>Quality management and quality assurance</td>
</tr>
<tr>
<td>MS-ISO 9000</td>
<td>Quality management systems – Fundamentals and vocabulary (Third edition)</td>
</tr>
<tr>
<td>MS-ISO 9001</td>
<td>Quality management systems – Requirements (Fourth edition)</td>
</tr>
<tr>
<td>MS-ISO 9004</td>
<td>Quality management systems – Guidelines for performance improvements (Second edition)</td>
</tr>
<tr>
<td>MS-ISO 10002</td>
<td>Quality management – Customer satisfaction – Guidelines for complaints handling in organization</td>
</tr>
<tr>
<td>MS-ISO 10005</td>
<td>Quality management systems – Guidelines for quality plans</td>
</tr>
<tr>
<td>MS-ISO 10006</td>
<td>Quality management systems – Guidelines for quality management in projects</td>
</tr>
<tr>
<td>MS-ISO/TR 10013</td>
<td>Guidelines for quality management systems documentation</td>
</tr>
<tr>
<td>MS-ISO 10015</td>
<td>Quality management – Guidelines for training</td>
</tr>
<tr>
<td>MS-ISO 14043</td>
<td>Environmental management-Life cycle assessment-Life cycle interpretation.</td>
</tr>
<tr>
<td>MS-ISO 14044</td>
<td>Environmental management-Life cycle assessment-Requirements and guidelines.</td>
</tr>
<tr>
<td>MS-ISO 14048</td>
<td>Environ management – Life cycle impact assessment-Data documentation format</td>
</tr>
<tr>
<td>MS-ISO 14050</td>
<td>Environmental management-Vocabulary</td>
</tr>
<tr>
<td>MS-ISO 15161</td>
<td>Guidelines on the application of MS-ISO 9001:2000 for the food and drink industry</td>
</tr>
<tr>
<td>MS 17020</td>
<td>Conformity assessment –Requirements for the operation of various types of bodies performing inspection</td>
</tr>
<tr>
<td>MS-ISO 17021</td>
<td>Conformity assessment – Requirements for bodies providing audit and certification of management system</td>
</tr>
<tr>
<td>MS-ISO 17025</td>
<td>General requirements for the competence of testing and calibration laboratories</td>
</tr>
<tr>
<td>MS-ISO 19011</td>
<td>Guidelines for quality and/or environmental management systems auditing</td>
</tr>
<tr>
<td>03.140</td>
<td>Patents. Intellectual property</td>
</tr>
<tr>
<td>03.160</td>
<td>Law. Administration</td>
</tr>
<tr>
<td>03.180</td>
<td>Education</td>
</tr>
<tr>
<td>03.200</td>
<td>Leisure. Tourism</td>
</tr>
<tr>
<td>03.220</td>
<td>Transport</td>
</tr>
<tr>
<td>Standard Number</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>MS 720-2</td>
<td>Transport of dangerous goods – Packaging and packaging for road and rail transport.</td>
</tr>
<tr>
<td></td>
<td>Part 2 – Large packaging</td>
</tr>
<tr>
<td>MS 736</td>
<td>Transport of dangerous goods – Intermediate bulk containers for road and rail transport</td>
</tr>
<tr>
<td>MS 845-2</td>
<td>Transport of dangerous goods - Emergency information systems - Part 2: Emergency information system for rail transport</td>
</tr>
<tr>
<td>MS 845-3</td>
<td>Transport of dangerous goods - Emergency information systems - Part 3: Emergency response guides</td>
</tr>
<tr>
<td>03.240</td>
<td>Postal services</td>
</tr>
<tr>
<td>07</td>
<td>MATHEMATICS. NATURAL SCIENCES</td>
</tr>
<tr>
<td>07.020</td>
<td>Mathematics</td>
</tr>
<tr>
<td>07.030</td>
<td>Physics. Chemistry</td>
</tr>
<tr>
<td>07.040</td>
<td>Astronomy. Geology. Geography</td>
</tr>
<tr>
<td>07.060</td>
<td>Geology. Metrology. Hydrology</td>
</tr>
<tr>
<td>07.080</td>
<td>Biology. Botany. Zoology</td>
</tr>
<tr>
<td>07.100</td>
<td>Microbiology</td>
</tr>
<tr>
<td>07.100.30</td>
<td>Food microbiology</td>
</tr>
<tr>
<td>MS 289-2</td>
<td>Animal feeds and feeding stuffs – Methods of sampling and tests</td>
</tr>
<tr>
<td></td>
<td>Part 2: General Methods</td>
</tr>
<tr>
<td>MS 289-4</td>
<td>Animal Feeds and feeding stuffs – Methods of test</td>
</tr>
<tr>
<td>11</td>
<td>HEALTHCARE TECHNOLOGY</td>
</tr>
<tr>
<td>11.020</td>
<td>Medical sciences and health care facilities in general</td>
</tr>
<tr>
<td>MS 336</td>
<td>Open woven bandages – Specification</td>
</tr>
<tr>
<td>11.040</td>
<td>Medical equipment</td>
</tr>
<tr>
<td>11.060</td>
<td>Dentistry</td>
</tr>
<tr>
<td>11.080</td>
<td>Sterilization and disinfection</td>
</tr>
<tr>
<td>11.080.20</td>
<td>Disinfectants and antiseptics</td>
</tr>
<tr>
<td>MS 66</td>
<td>Antibacterial liquid toilet soap – Specification</td>
</tr>
<tr>
<td>11.100</td>
<td>Laboratory medicine</td>
</tr>
<tr>
<td>MS ISO 15189</td>
<td>Medical laboratories – Particular requirements for quality and competence</td>
</tr>
</tbody>
</table>
11.120 Pharmaceutic
11.140 Hospital equipment
11.160 First aid
11.180 Aids for disabled or handicapped persons
11.200 Birth control. Mechanical contraceptives

MS 307 Natural latex rubber condoms – Requirements and test methods
MS 308 Reusable rubber contraceptive diaphragms – Specification

11.220 Veterinary medicine

13 ENVIRONMENT HEALTH PROTECTION. SAFETY

13.020 Environmental protection

13.020.01

MS 844 Environmental and environmental protection in general

13.020.10 Environmental management

MS-ISO 14001 Environmental management systems – Specification with guidance for use
MS-ISO 14004 Environmental management systems – General guidelines on principles, systems and support techniques
MS-ISO 14015 Environmental management systems – General guidelines on principles and support techniques (19p)
MS-ISO 14020 Environmental labels and declarations – General principles
MS-ISO 14021 Environmental labels and declarations – Self declared environmental claims (Type II environmental labelling)
MS-ISO 14031 Environmental management Environmental performance evaluation – Guidelines
MS-ISO 14032 Environmental management – Examples of environmental performance evaluation (EPE)
MS-ISO 14040 Environmental management – Life cycle assessment principles and framework
MS-ISO 14041 Environmental management – Life cycle assessment Coal and scope definition and inventory analysis
MS-ISO 14042 Environmental management – Life cycle assessment life cycle impact assessment
MS-ISO 19011 Guidelines for quality and/or environmental management systems auditing

13.020.40 Pollution, pollution control and conservation

MS 539 Industrial effluents – Tolerance limits for discharge into inland surface waters
MS 691 Tolerance limits for domestic sewage effluents discharged into in land surface waters specification

13.030 Wastes

MS 59 Solid waste – Handling, transportation and disposal – Code of practice
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Standard Code</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.030.10</td>
<td>Solid Wastes</td>
<td>MS 713</td>
<td>Plastic products – Guidelines for safe management and disposal</td>
</tr>
<tr>
<td>13.030.20</td>
<td>Liquid wastes. Sludge</td>
<td>MS 534</td>
<td>Disposal of effluents from the dairy industry</td>
</tr>
<tr>
<td>13.030.30</td>
<td>Special wastes</td>
<td>MS 615</td>
<td>Waste within health care facilities – handling and disposal (code of practice)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS 675</td>
<td>Safety procedures for the disposal of surplus pesticides and associated toxic waste – code of practice</td>
</tr>
<tr>
<td>13.030.40</td>
<td>Installations and equipment for waste disposal and treatment</td>
<td>MS 119</td>
<td>Small incinerators – Specification</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS 326</td>
<td>Incinerators – standard performance requirements for incineration plant for the destruction of hospital waste – specification</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS 346</td>
<td>Incinerators – Methods of specifying purchaser’s requirements for incineration plant for the destruction of hospital waste</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS 356</td>
<td>Design, specification, installation and commissioning of incineration plant for the destruction of hospital waste – code of practice</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS 359</td>
<td>Incinerators – Performance of incineration plant for the destruction of hospital waste – Methods of test and calculation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS 730</td>
<td>Solid waste disposal sites, guidelines for design – code of practice</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS 731</td>
<td>Solid waste disposal sites: Guidelines for safe management – code of practice</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS 732</td>
<td>Effluent treatment plants – operating conditions (code of practice)</td>
</tr>
<tr>
<td>13.040</td>
<td>Air quality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.040.20</td>
<td>Ambient atmosphere</td>
<td>MS 740</td>
<td>Ambient air – methods of sampling and test</td>
</tr>
<tr>
<td>13.040.30</td>
<td>Workplace atmospheres</td>
<td>MS 742</td>
<td>Workplace air- determination of particulate lead and lead compounds – flame or electrothermal atomic absorption spectrometric method</td>
</tr>
<tr>
<td>13.040.40</td>
<td>Stationery source emissions</td>
<td>MS 737</td>
<td>Industrial emissions – Emissions from mobile and stationary sources</td>
</tr>
<tr>
<td>13.060</td>
<td>Water quality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.060.10</td>
<td>Water of natural resources</td>
<td>MS 733</td>
<td>Borehole and shallow well water quality – Specification</td>
</tr>
</tbody>
</table>
13.060.20  Drinking water
MS 214  Drinking water – Specification
MS 678  Drinking water quality - control and surveillance of water in public supply net works
MS 699  Bottled drinking water other than mineral water

13.060.45  Water quality in general
MS 682-1  Water quality – Sampling Part 1: Guidance on the design of sampling programmes and sampling techniques
MS 682-3  Water quality – Sampling Part 3: Guidance on the preservation and handling of water samples
MS 682-4  Water quality – Sampling Part 4: Guidance on sampling from lakes, natural and man made
MS 682-5  Water quality – sampling Part 5: Guidance on sampling drinking water from treatment works and piped distribution systems.
MS 682-6  Water quality – Sampling Part 6: Guidance on sampling of rivers and streams
MS 682-8  Water quality –sampling Part 8: Guidance on sampling of wet deposition
MS 682-11  Water quality –sampling Part 11: guidance on sampling of groundwaters
MS 682-12  Water quality- sampling Part 12: Guidance on sampling of bottom sediments
MS 682-13  Water quality-sampling Part 13: guidance on sampling sludge’s from sewage and water treatment work
MS 682-16  Water quality-sampling part 16: Guidance on biotesting of samples
MS 682-17  Water quality –sampling Part 17: guidance on sampling suspended sediments
MS 682-19  Water quality –sampling Part 19: Guidance on sampling of marine sediments
MS 682-21  Water quality –sampling Part 21: guidance on sampling of drinking water distributed by tankers or means other than distribution pipes.

13.080  Soil quality. Pedalogy

13.100  Occupational safety. Industrial hygiene
MS 125  Chemical laboratories – Code of safety
MS 714  Occupational safety and health management systems – Specification

13.110  Safety of machinery

13.120  Domestic safety

13.140  Noise with respect to human beings
MS 712-1  Acoustics – Recommended practice for the design of low noise at workplaces containing machinery Part 1: Noise control strategies
MS 712-2  Acoustics – Recommended practice for the design of low noise at workplaces containing machinery Part 2: Noise control measure
MS 712-3  Acoustics – Recommended practice for the design of low noise at workplaces containing machinery Part 3: Sound propagation and noise prediction in workrooms

13.160  Vibration and shock with respect to human beings

13.180  Ergonomics

13.200  Accident and disaster control

13.220  Protection against fire
13.220.10 Fire fighting

MS 657-1 Portable rechargeable fire extinguishers – Specification Part 1: Water type extinguishers
MS 657-2 Portable rechargeable fire extinguishers – Specification Part 2: Dry powder type extinguishers
MS 657-3 Portable rechargeable fire extinguishers – Specification Part 3: Foam type extinguishers
MS 657-4 Portable rechargeable fire extinguishers – Specification Part 4: CO₂ type extinguishers
MS 658-1 The classification, use and control of fire-fighting equipment – Code of practice Part 1: Portable fire extinguishers
MS 658-2 The classification, use and control of fire-fighting equipment – Code of practice Part 2: Fire hose reels

13.230 Explosion protection

13.240 Protection against excessive pressure

13.260 Protection against electric shock

13.280 Radiation protection

MS 845-2 Transport of dangerous goods-Emergency information systems Part 2: Emergency information system for rail transport
MS 845-3 Transport of dangerous goods-emergency information systems part 3: emergency response guides

13.300 Protection against dangerous goods

MS 720-2 Packaging of dangerous goods - packaging and large packaging for road and rail
MS 736 Transportation of dangerous goods-intermediate bulk containers for road and rail transport
MS 847 Transportation of dangerous goods operational requirements for road vehicles
MS 849 Transportation of dangerous goods designed, construction, testing

13.310 Protection against crime

13.320 Alarm and warning systems

13.340 Protective equipment

13.340.10 Protective clothing

MS 106 Welding helmets shields, goggles and welding spectacles – Specification

13.340.20 Head protective equipment

MS 626 Safety helmets for industrial use and for firemen – Specification
MS 641 Safety helmets for motor cyclists – Specification

13.340.50 Protective footwear

MS 70 Industrial heavy-duty leather boots – Specification
MS 94 Industrial and safety rubber boots – Specification
MS 123 Industrial and safety poly(vinyl chloride) boots – Specification
17 METROLOGY AND MEASUREMENT. PHYSICAL PHENOMENA

17.020 Metrology and measurement in general

17.040 Linear and angular measurements

MS 174 Rulers for general purpose – Specification

17.060 Measurement of volume, mass, density, viscosity

MS:773 Metrological and technical requirement for non-automatic, undenominated beam scales and balances subject to legal metrology control.
MS 774 Metrological and technical requirement for non-automatic, non-self or semi-self indicating, ungraduated counter scales subject to legal metrology control

17.080 Measurement of time, velocity, acceleration, angular velocity

17.100 Measurement of force, weight and pressure

17.120 Measurement of fluid flow

17.140 Acoustics and acoustic measurements

MS 173 Acoustics Noise pollution – Tolerance limits

17.140.01 Acoustic measurements and noise abatement in general

MS 697 Industrial noise affecting mixed residential and industrial area – Method for rating

17.140.99 Other standards related to acoustics

MS 173 Acoustics – Noise pollution-Tolerance limits

17.160 Vibrations, shock and vibration measurements

17.180 Optics and optical measurements

17.200 Thermodynamics and temperature measurements

17.200.20 MS 833 Thermostats for electric storage water heaters-specification

17.220 Electricity. Magnetism. Electrical and magnetic

17.240 Radiation measurements

19 TESTING
19.020 Test conditions and procedures in general
19.040 Environmental testing
19.060 Mechanical testing

MS 761-1 Domestic Solar Water Heaters
Part 1 Thermal performance using an outdoor test method

19.080 Electrical and electronic testing
19.100 Non-destructive testing
19.120 Particle size analysis. Sieving

21 MECHANICAL SYSTEMS AND COMPONENTS FOR GENERAL USE

21.020 Characteristics and design of machines, apparatus, equipment
21.040 Screw threads
21.060 Fasteners

MS 322 Mild Steel nails - Specification

21.060.50 Pins. Nails
21.080 Hinges, eyelets and other articulated joints
21.100 Bearings
21.120 Shafts and couplings
21.140 Seals, glands
21.160 Springs
21.180 Housings, enclosures, other machine parts
21.200 Gears
21.220 Flexible drives and transmissions
21.240 Rotary-reciprocating mechanisms and their parts

MS 321 Zinc – Coated fencing wire (plain and barbed) - Specification
21.260 Lubrication systems

23 FLUID SYSTEMS AND COMPONENTS FOR GENERAL USE
23.020 Fluid storage devices

23.020.30 Pressure vessels, gas cylinder

MS 521 CO₂ gas cartridges (steel) – Specification

23.040 Pipeline components and pipelines

23.040.20 Plastic pipes

MS 3 Unplasticized polyvinyl chloride, (UPVC) sewer and drain-pipes and pipe fittings – Specification (second revision)
MS 4 Unplasticized polyvinyl chloride (UPVC) type 1, pressure pipes and fittings (for cold water services) – Specification (first revision)
MS 5 Unplasticized polyvinyl chloride (UPVC) pipes and pipe fittings for use above ground in drainage installations – Specification (first revision)
MS 7 Unplasticized polyvinyl chloride (UPVC) pipes installation – Code of practice
MS 38 Unplasticized polyvinyl chloride (UPVC) rigid conduit and fittings for use in electrical installations – Methods of test.
MS 374 Black polyethylene pipes for the conveyance of liquids – Specification
  Part 1: Low density polyethylene pressure pipes
  Part 2: High density polyethylene pressure pipes
  Part 3: High Density Polyethylene PE 80 Pressure pipes
MS 407 Black polyethylene pipes for the conveyance of liquids – Methods of test
MS 456 Unplasticized polyvinyl chloride (UPVC) pipes and fittings – Methods of test
MS 617-1 Pipes and fittings made of un-plasticized poly(vinyl chloride)(PVC-U) for water supply – Specification
  Part 1: General
MS 617-2 Pipes and fittings made of un-plasticized poly(vinyl chloride)(PVC-U) for water supply – Specification
  Part 2: Pipes (with or without integral sockets)
MS 617-3 Pipes and fittings made of un-plasticized poly(vinyl chloride)(PVC-U) for water supply – Specification
  Part 3: Fittings and joints
MS 620 Structured wall pipes and fittings of UPVC for buried drainage and sewerage systems – Specification
MS 666 Components of pressure pipe systems (PVC-U) – Specification
  Part 1: Unplasticized poly(vinyl chloride) (PVC-U) pressure pipes
  Part 2: Modified poly(vinyl chloride) (PVC-M) pressure pipe systems
MS 688 Unplasticized poly (vinyl chloride) (PVC-U) soil, waste and vent pipes and pipe fittings – specification
MS 689 The installation of polyethylene and poly(vinyl chloride) (PVC-U) and (PVC-M) pipes
MS 912-1 Plastics piping systems for hot and cold water installations-polypropylene (PP)
  Part 1: General
MS 912-2 Plastics piping systems for hot and cold water installations-Polypropylene (PP)
  Part 2:Pipes
MS 912-3 Plastics piping systems for hot and cold water installations-Polypropylene (PP)
  Part 3:Fittings
MS 912-5 Plastics piping systems for hot and cold water installations-Polypropylene (PP)
  Part 5: Fitness for purpose of the system
MS 912-7 Plastics piping systems for hot and cold water installations-Polypropylene (PP)
  Part 7 Guidance for the assessment of conformity
23.040.45 Plastic fittings

MS 620 Structured wall pipes and fittings of UPVC for buried drainage and sewerage systems – Specification

MS 666 Components of pressure pipe systems (PVC-U) – Specification
Part 1: Unplasticized poly(vinyl chloride) (PVC-U) pressure pipes
Part 2: Modified poly(vinyl chloride) (PVC-M) pressure pipe systems

23.040.50 Pipes and fittings of other materials

23.060 Valves

23.060.01 Valves in general

MS 684 Water taps (metallic bodies) – Specification

23.060.20 Ball and plug valves

MS 686 Automatic shut off flush valves for water closets for urinal – Specification

23.080 Pumps

23.100 Fluid power systems

23.120 Ventilators. Fans. Air-conditioners

23.140 Compressors and pneumatic machines

23.160 Vacuum technology

25 MANUFACTURING ENGINEERING

25.020 Manufacturing forming processes

25.040 Industrial automation systems

25.060 Machine tool systems

25.080 Machine tools

25.100 Cutting tools

25.120 Chipless working equipment

25.140 Hand-held tools

25.160 Welding, brazing and soldering

25.160.10 Welding processes

MS 552 Safety of welding – Code of practice
## ENERGY AND HEAT TRANSFER ENGINEERING

### 25.180 Industrial furnaces

### 25.200 Heat treatment

### 25.220 Surface treatment and coating

#### 25.220.40 Metallic coating

- MS 321 Zinc-coated fencing wire (plain and barbed) – Specification

### 27 ENERGY AND HEAT TRANSFER ENGINEERING

#### 27.010 Energy and heat transfer engineering in general

- MS 877 Energy management system- requirements with guidance for use

#### 27.020 Internal combustion engines

- MS 876 Building environment design guidelines to assess energy efficiency of new building

#### 27.040 Gas and steam turbines. Steam engines

#### 27.060 Burners. Boilers

##### 27.060.10 Liquid and solid fuel burners

- MS 155 Solid fuel cookstoves - Type II – Specification
- MS 157 Cook-stove, liquid fuel non-pressure Type – Specification
- MS 158 Cook-stoves, solid fuel - Type 1 – Specification
- MS 185 Cook-stove, liquid fuel non-pressure – Methods of test
- MS 480 Cook-stoves, solid fuel - Type 1 – Methods of test

#### 27.070 Fuel cells

#### 27.080 Heat pumps

#### 27.100 Power stations in general

- MS 889-1 Recommendations for small renewable energy and hybrid systems for rural electrification Part 1 general introduction to rural electrification
- MS 889-2 Recommendation for small renewable energy and hybrid systems for rural electrification Part 2 : From requirements to a range of electrification systems
- MS 889-3 Recommendation for small renewable energy and hybrid systems for rural electrification Part 3: Project development and management.
- MS 889-4 Recommendation for small renewable energy and hybrid systems for rural electrification Part 4: System selection and design
- MS 889-5 Recommendation for small renewable energy and hybrid systems for rural electrification Part 5: Protection against electrical hazards.
- MS 889-7 Recommendation for small renewable energy and hybrid systems for rural Part 7: generators
| MS 889-7-1 | Recommendations for small renewable energy and hybrid systems for rural electrification Part 7-1: Generators-Photovoltaic arrays. |
| MS 889-8-1 | Recommendations for small renewable energy and hybrid systems for rural electrification Part 8-1: Selection of batteries and battery management systems for stand-alone electrification systems - specific case of automotive flooded lead-acid batteries available in developing countries |
| MS 889-9-2 | Recommendation for small renewable energy and hybrid systems for rural electrification Part 9-2 micro grids |
| MS 889-9-3 | Recommendations for small renewable energy and hybrid systems for rural electrification Part 9-3: Integrated System - User Interface |
| MS 889-9-4 | Recommendations for small renewable energy and hybrid systems for rural electrification Part 9-4 integrated systems - user installation |
| MS 889-9-5 | Recommendations for small renewable energy and hybrid systems for rural electrification Part 9-5: Integrated system-Selection of portable PV lanterns for rural electrification project |
| MS 889-9-6 | Recommendations for small renewable energy and hybrid systems for rural electrification Part 9-6: Integrated systems-selection of photovoltaic individual electrification systems (PV-IEC) |
| MS 889-12-1 | Recommendations for small renewable energy and hybrid systems for rural electrification Part 12-1: selection of self-ballasted lamps (CFL) for rural electrification systems and recommendations for household lighting equipment |

27.120 Nuclear energy engineering

27.140 Hydraulic energy engineering

27.160 Solar energy engineering

MS 62 Solar water heaters – Specification

MS 695 Battery-based photovoltaic (PV) solar home systems – Specification
MS 696 Battery-based photovoltaic (PV) solar home systems – Code of practice
MS 710 Secondary cells and batteries for solar (PV) energy systems – Specification
MS 711 Crystalline silicon terrestrial photovoltaic (PV) modules – Design, qualification and type approval
MS 780 Solar photovoltaic (PV) water pumping systems - Specification

27.180 Wind turbine systems and other alternative sources of energy

27.200 Refrigerating technology

27.220 Heat recovery. Thermal insulation

29 ELECTRICAL ENGINEERING

29.020 Electrical engineering in general

MS 17 Safety of electrical appliances – Specification

29.030 Magnetic materials

29.035 Insulating materials

29.040 Insulating fluids
29.045  Semi-conducting materials
29.050  Conducting materials
29.060  Electrical wires and cables
MS 15  Flexible cords for power and lighting appliances – Specification
MS 528 PVC-insulated cables for electricity supply – Specification
29.060.01 Electrical wire and cables in general
MS 14  Glass-reinforced polyester (GRP) laminated sheets (profile or flat) – Specification
29.060.20 Cables
MS 650  Conductors in insulated cables and cords – Specification
29.080  Insulation
29.080.10 Insulators
MS 841  D-Iron Bracket and Insulator Assembly - Characteristics and Test Method
29.100  Components for electrical equipment
29.120  Electrical accessories
29.120.10 Conduits for electrical purposes
MS 2  Non-metallic conduit and fittings (for electrical wiring) – Specification
29.120.99
MS 834  Energy regulators for electric heating units-specification
29.130  Switchgear and control gear
29.140  Lamps and related equipment
MS 8  Manually operated air break switches – Specification
MS 9  Plugs, socket outlets and socket outlet adaptors – Specification
MS 16  Apparatus connector for portable domestic appliances – Specification
29.140.30 Fluorescent lamps. Discharge lamps
MS 709  Fluorescent lights for use in photovoltaic (PV) systems – Specification
29.140.40
MS 882  Self-ballasted light emitting diodes lamps for general lighting purposes-performance requirements
MS 883  Self-ballasted lamps for general lighting purposes-safety requirements
MS 884  Self – ballasted fluorescent lamps for general purposes-performance requirements
MS 886  Self-ballasted compact fluorescent lamps for general lighting purposes – specification
MS 887  Self-ballasted light emitting diode lamps for general lighting purposes – safety specification
29.160  Rotating machinery
29.180  Transformers. Reactors
29.200  Rectifiers. Convertors. Stabilized power supply
29.220  Galvanic cells and batteries
29.220.10 Primary cells and batteries
MS 35:1986 Primary dry batteries – Specification
29.220.20 Acid secondary cells and batteries
MS 180  Lead-acid starter batteries – Specification
MS 181  Lead-acid starter batteries – Methods of test
MS 420  Lead acid starter batteries – Code of practice for handling and operation
29.240  Power transmission and distribution networks
29.260  Electrical equipment for working in special conditions
29.280  Electric traction equipment
31  ELECTRONICS
31.020  Electronic components
31.040  Resistors
31.060  Capacitors
31.080  Semiconductor devices
31.100  Electronic tubes
31.120  Electronic display devices
31.140  Piezoelectric and dielectric devices
31.160  Electric filters
31.180  Printed circuits and boards
31.190  Electronic components assemblies
31.200  Electromechanical components for electronic and telecommunications equipment
31.220 Electromechanical components
31.240 Mechanical structures for electronic equipment
31.260 Optoelectronics. Laser equipment
33 TELECOMMUNICATIONS. AUDIO AND VIDEO ENGINEERING
33.020 Telecommunications in general
33.030 Telecommunication services. Applications
33.040 Telecommunication systems
33.050 Telecommunication terminal equipment
33.060 Radio communications
33.070 Mobile services
33.080 Integrated Services Digital Network (ISDN)
33.100 Electromagnetic compatibility (EMC)
   MS 1260-1-1 Electromagnetic compatibility (EMC) part 1: general section 1: application and interpretation of fundamental definitions and terms
   MS 1260-4-1 Electromagnetic compatibility (EMC)
33.100.20
   MS 1260-4-9 Electromagnetic compatibility (EMC)
   MS 1260-3-11 Electromagnetic compatibility (EMC)
33.120 Components and accessories for telecommunications equipment
33.140 Special measuring equipment for use in telecommunications
33.160 Audio, video and audiovisual engineering
33.170 Television and radio broadcasting
33.180 Fibre optic communications
33.200 Telecontrol. Telemetering
35 INFORMATION TECHNOLOGY. OFFICE EQUIPMENT MACHINES
35.020 Information technology (IT) in general
35.040 Character sets and information coding
35.060 Languages used in information technology
35.080  Software development and system documentation
35.100  Open systems interconnection (OSI)
35.110  Networking
35.140  Computer graphics
35.160  Microprocessor systems
35.180  IT terminal and other peripheral equipment
35.200  Interface and interconnection equipment
35.220  Data storage devices
35.240  Applications of information technology
35.260  Office machines

MS 726  Staples for Office Use-Specification
MS 727  Office Staplers –Specification
MS 728  Paper Clips-Specification
MS 729  Paper Punches (Desk Top Types)-Specification

37  IMAGE TECHNOLOGY
37.020  Optical equipment
37.040  Photography
37.060  Cinematography
37.080  Document imaging applications
37.100  Graphic technology

39  PRECISION MECHANICS. JEWELLERY
39.020  Precision mechanics
39.040  Horology
39.060  Jewellery

43  ROAD VEHICLE ENGINEERING
43.020  Road vehicles in general
        MS 822  Road vehicles –inspection and testing of imported used motor vehicles
43.040  Road vehicle systems
43.040.10
MS 653 Electrical connectors for towing and towed vehicles – specification

43.040.20
MS 642-1 Lights for motor vehicles
MS 642-2 Lights for motor vehicles
MS 642-3 Lights for motor vehicles
MS 652-1 Braking (motor and towed vehicles, designed for low or for use off public roads) – specification

43.060 Internal combustion engines for road vehicles

43.080 Commercial vehicles

43.100 Passenger cars. Caravans and light trailers
MS 639 Retro-reflective registration plates for motor vehicles – Specification
Part 1: Metal blanks
Part 2: Number plates
Part 3: Plastics blanks
Part 4: Plastic registration plates

43.120 Electric road vehicles

43.140 Motor cycles and mopeds

43.150 Cycles

43.160 Special purpose vehicles

43.180 Diagnostic, maintenance and test equipment

45 RAILWAY ENGINEERING

45.020 Railway engineering in general

45.040 Materials and components for railway engineering

45.069 Railway rolling stock

45.080 Rails and railway components

45.100 Cableway equipment
45.120 Equipment for railway/cableway construction and maintenance

47 SHIP BUILDING AND MARINE STRUCTURES

47.020 Shipbuilding and marine structures in general
47.040 Seagoing vessels
47.060  Inland navigation vessels
47.080  Small craft
49  AIRCRAFT AND SPACE VEHICLE ENGINEERING
49.020  Aircraft and space vehicles in general
49.025  Materials for aerospace construction
49.030  Fasteners for aerospace construction
49.035  Components for aerospace construction
49.040  Coatings and related processes used in aerospace industry
49.045  Structure and structure elements
49.050  Aerospace engines and propulsion systems
49.060  Aerospace electric equipment and systems
49.080  Aerospace fluid systems and components
49.090  On-board equipment and instruments
49.095  Passenger and cabin equipment
49.100  Ground service and maintenance equipment
49.120  Cargo equipment
49.140  Space systems and operations
53  MATERIALS HANDLING EQUIPMENT
53.020  Lifting equipment
53.040  Continuous handling equipment
53.060  Industrial trucks
53.080  Storage equipment
53.100  Earth-moving machinery
53.120  Equipment for manual handling

MS 76  Agricultural hand hoe-Specification
MS 651  Spades and Shovels-Specification
55  PACKAGING AND DISTRIBUTION OF GOODS

55.020  Packaging and distribution of goods in general

MS 103  Packaging – Pictorial marking for handling goods
MS 105  Transport packages, dimension of rigid rectangular packages – Specification

55.040  Packaging materials and accessories

MS 721  Wood packaging material – Guidelines for phytosanitary measures
MS 717  Polypropylene grain sacks - Specification
MS 722  Labelling, presentation and advertising of prepacked goods for ultimate consumer
MS 767  Corrugated board containers: Methods of test
MS 768  Liners and fluting for corrugated board - Specification

55.060  Spools. Bobbins

MS 841  D-Iron bracket and ceramic insulator assembly – Characteristics and test methods

55.080  Sacks. Bags

MS 99-2  Packaging sacks – Vocabulary
    Part 2: Sacks made from thermoplastic flexible film
MS 100  Sacks, packaging – Description and method of measurement
    Part 1: Empty paper sacks
MS 207  Tea sacks – Specification
MS 363  Packaging sacks – Drop test
    Part 1: Paper sack
    Part 2: Sacks made from thermoplastic flexible film
MS 364  Paper and board – Determination of tensile properties
    Part 1: Constant rate of loading method
    Part 2: Constant rate of elongation method
MS 522  Packaging sacks – Methods of sampling empty sacks for testing
MS 717  Polypropylene grain sacks - Specification
MS 734  Plastic carrier bags and flat bags – Specification
MS 735  Plastic – Film and sheeting – Determination of average thickness, length and width

55.100  Bottles Pots. Jars

MS 20  Blow moulded plastic containers up to 5 litres capacity – Specification

55.120  Cans. Boxes. Crates

MS 20  Blow moulded plastic containers up to 5 litres capacity – Specification

55.130  Aerosol containers

55.140  Barrels. Druns. Canisters

55.160  Cases. Boxes. Crates

MS 724  Corrugated board containers – Specification
55.180  Freight distribution of goods

MS 101  Freight containers – Terminology
MS 102  Freight containers (series i): Classification, dimensions and rating – Specification
MS 722  Labelling, presentation and advertising of prepacked goods for ultimate consumer

55.180.20

MS 926-1  Pallets for materials handling – flat pallets
MS 926-2  Pallets for materials handling – flat pallets
MS 926-3  Pallets for materials handling – flat pallets
MS 1087  Pallets for materials handling – vocabulary

55.200  Packaging machinery

55.220  Storing. Warehousing

55.230  Distribution and vending machines

59  TEXTILES AND LEATHER TECHNOLOGY

59.020  Processes of the textile industry

59.040  Textile auxiliary materials

MS 261  Industrial synthetic fibre, sewing threads – Specification
MS 264  Loomstate cotton duck – Specification

59.060  Textile fibres

59.060.01  Textile fibres in general

MS 329  Textiles – Ternary fibre mixtures – Quantitative analysis
MS 341  Ropes and cordages – Specification
MS 974  Textiles fibres-Determination of breaking force and elongation at break of individual fibres
MS 975  Textile fibres-determination of linear density-gravimetric method and vibroscope method
MS 979  Textiles-methods for the removal of non-fibrous matter prior to quantitative analysis of fibre mixture

59.080  Products of the textile industry

59.080.01  Textiles in general

MS 134  Textiles – Woven fabric Descriptions
MS 269  Cotton towels – Specification
MS 273  Cotton bed sheets – Specification

59.080.30  Textile fabrics

MS 315  Fabric linings for footwear – Specification
MS 588  Chitenje – Specification
59.100 Materials for the reinforcement of composites

59.120 Textile machinery

59.140 Leather technology

MS 311 Leather, terms and vocabulary
MS 526 Vegetable-tanned outer-sole leather – Specification

59.140.20 Raw skins, hides and pelts

MS 290 Hides and skins, raw – Guidelines for grading
MS 293 Raw hides and skins – Terminology of defects
MS 358 Hides and skins, raw – Rules for preservation

61 CLOTHING INDUSTRY

61.020 Clothes

MS 270 Cotton baby napkins – Specification
MS 330 Size designation of clothes (men’s and boys’ outerwear garments)
MS 331 Size designation of clothes (women’s and girls’ outerwear garments)
MS 332 Size designation of clothes (infants’ garments)
MS 333 Size designation of clothes (definitions and body measurement procedure)
MS 337 Hessian cloth – Specification

61.040 Headgear clothing accessories. Fastening of clothing

61.060 Footwear

MS 72: Footwear and footwear materials- methods of test
MS 109 Casual and fashion plastic shoes – Specification
MS 312 Men’s shoes with stuck-on outer soles – Specification
  Part 1: Flat lasted construction
  Part 2: California type construction
  Part 3: Moccasin type construction
MS 313 Infants and children's shoes (stuck-on and stitch-down constructions) – Specification
MS 315 Fabric lining for footwear – Specification
MS 316 Threads for footwear – Specification
MS 357 Threads for footwear – Methods of tests

61.080 Sewing machines and other equipment for the clothing industry

65 AGRICULTURE

65.020 Farming and forestry

65.040 Farm building, structures and installations

65.060 Agricultural machines, implements and equipment

MS 530 Farm implements – Methods of sampling

© 2017 Catalogue of Malawi standards
65.060.20 **Soil working equipment**
- MS 76: Agricultural hand hoe – Specification
- MS 110: Single furrow animal drawn plough shares – Specification

65.060.99 **Other agricultural machines and equipment**
- MS 183: Axes and hatchets – Specification
- MS 651: Spades and shovels - Specification

65.080 **Fertilizers**
- MS 167: Fertilizers and soil conditioners – Vocabulary
- MS 249: Fertilizers - Marking, presentation and decolrations
- MS 255: Compound fertilizers – Specification
- MS 258: Fertilizers – Ammonium sulphate – Specification
- MS 265: Bagged fertilizers, handling and storage – Code of practice
- MS 271: Fertilizer – Super Phosphate – Specification
- MS 272: Calcium Ammonium Nitrate fertilizer – Specification
- MS 324: Fertilizers Determination of Bulk Density (Loose)
- MS 325: Fertilizers - determination of bulk density (bulk)
- MS 351: Fertilizers – urea – Specification
- MS 353: Fertilizers – Ammonium nitrate – Specification
- MS 354: Fertilizes – Muriate of potash – Specification
- MS 355: Fertilizers – Sulphate of potash – Specification
- MS 531: Agricultural Liming materials - Specification
- MS 632: Fertilizers – Determination of ammoniacal nitrogen content – Titrimetric method

65.100 **Pesticides and other agrochemicals**

65.100.01 **Pesticides and other agrochemicals in general**
- MS 89: Pesticides – Handling, storage and disposal – Code of practice
- MS 120: General requirements for pesticides – Specification

65.100.10 **Insecticides**
- MS 375: Methyl-bromide insecticidal fumigant – Specification
- MS 376: Ethylene-dibromide insecticide – Specification

65.120 **Animal feeding stuffs**
- MS 212: Poultry feeds – Specification
- MS 289-2: Animal Feeds and Feeding Stuff Methods of Sampling
- MS 240: Pig feed – Specification
- MS 416: Dairy cattle feed supplements-Specification
- MS 417: Meat meal and meat and bone meal as livestock feed – Specification
- MS 422: Fish meal as livestock feed – Specification
- MS 423: Bone meal as livestock feed – Specification
- MS 424: Blood meal as livestock feed – Specification
- MS 511: Animal feeding stuff-quantitative determination of zearalenone content
65.140  Beekeeping

65.145  Hunting

65.150  Fishing and fish breeding

MS 132  Fishing nets – Designation of netting yarns in the textile system
MS 137  Fishing nets, hanging of netting – Basic terms and definitions

65.160

MS 787  Tobacco and tobacco products- Methods of test

67  FOOD TECHNOLOGY

67.020  Processes in the food industry

MS 21  Food and food processing units – Code of hygienic conditions
MS 212  Poultry feeds – Specification
MS 300  General guidelines for establishing a Hazard Analysis Critical Control Point (HACCP) System in a food establishment
MS 477  Food for infants and children – Code of hygienic practice
MS 654  Additional of essential nutrients to foods –general principles
MS 815  Organic products-General standard
MS 944  Principles for food import and export inspection and certification
MS-ISO 15161  Guidelines on application of ISO 9001-2000 in food and drink industry
MS 17065  Conformity assessment –Requirements for bodies certifying products, processes and services
MS-ISO 22000  Food safety management systems-Requirements forcing organization in the food chain
MS-ISO/TS 22002-1  Prerequisites programmes on food safety
MS-ISO 22002-3  Prerequisite programmes on food safety
MS-ISO 22002-4  Prerequisite programmes on food safety
MS-ISO 22003  Food safety management systems- requirements for bodies providing audit and certification of food safety management systems
MS-ISO/TS 22004: Food safety management systems-Guidance on the application of ISO 2200:2005

67.040  Food products in general

MS 64  Mixed animal and vegetable ghee – Specification
MS 798  Instant noodles – specification

67.050  General methods of tests and analysis for food products

MS 23  Processed fruits and vegetables – Methods of test
MS 144  Agricultural food products: Determination of crude fibre content: General method
MS 150-1  wheat and wheat flour-gluten content part 1: determination of wet gluten content by manual method
MS 801  Honey-methods of test

67.060  Cereals, pulses and derived products

MS 30  Fortifies Wheat flour – Specification
MS 31  Common bread – Specification
MS 32  Maize grain – Specification (first revision)
MS 34  Fortified, Maize flour – Specification
MS 55  Wheat grain – Specification
MS 145 Cereals and pulses – Methods of sampling as milled products
MS 146 Cereals – Methods of sampling as grain
MS 148 Cereals and cereal products – Determination of fat content
MS 149 Cereals, pulses and derived products – Determination of ash
MS 150-1 Wheat flour – Determination of wet gluten
MS 150-2 wheat and wheat flour-gluten content
MS 150-3 wheat and wheat flour –gluten content
MS 150-4 wheat and wheat flour-gluten content
MS 151 Cereals and cereal products – Determination of alpha-amylase
MS 179 Rice – Specification
MS 195 Fresh green beans – Specification
MS 224 Pasta products – Specification
Ms 229-1 Cereal-based breakfast food products-spezification
MS 234 Buns – Specification
MS 242 Cowpeas – Specification
MS 243 Dry garden peas – Specification
MS 244 Soya beans – Specification
MS 245 Bean – Specification
MS 349 Edible cassava flour – Specification
MS 415 sunflower seeds for the manufacture of oil-specification
MS 426 castor seeds for the manufacture of oil-specification
MS 518-1 Cereals and pulses-determination of hidden insect infestation
MS 518-2 Cereals and pulses-determination of hidden insect infestation
MS 518-3 Cereals and pulses-determination of hidden insect infestation
MS 518-4 Cereals and pulses-determination of hidden insect infestation
MS 543 wheat protein products including wheat gluen-specification
MS 544 Whole and decorticated pearl millet grains- specification
MS 609 Cereals and pulses – Determination of mass of 1000 grains
MS 612 Sorghum – Determination of tannin content
MS 748 Soya bean milk and drink- specification
MS 749-1 Storage of cereals and pulses
Part 1: General recommendations for the storage of cereals
Part 2: Pesticides recommendation
Part 3: control of attack pest
MS 801 Honey – methods of test
MS 804 Code of hygienic practice for groundnuts
MS 843 Code of practice for the prevention and reduction of aflatoxin contamination in groundnuts
MS 937 Degermed maize (corn) meal and maize (corn) grots-specification
MS 938 Sorghum flour-Specification
MS 1000 certain pulses-specification
MS 1111 Baby corn-Specification

67.080  Fruits. Vegetables

MS 479  Avocado – Specification

67.080.01 Fruits, vegetables and derived products in general

MS 23 Processed fruits and vegetables – Methods of test
MS 230 Tomatoes – Specification
MS 747 Fruit flavoured drinks – Specification
MS 1003 Papayas-Specification
MS 1004 Mangoes-Specification (first ed)
MS 1005 Dates-Specification (first ed)
MS 1110 Dried apricots-Specification
MS 1112 Code of hygienic practice for fresh fruits and vegetables

67.080.10 Fruits and derived products
MS 176 Jams, jellies and marmalades – Specification
MS 228 Raw macadamia kernels – Specification
MS 231 Fresh pineapples – Specification
MS 461 Cashew kernels – Specification

67.080.20 Vegetables and derived products
MS 24 Canned pineapples – Specification
MS 25 Tomato puree – Specification
MS 26 Tomato juice – Specification
MS 27 Tomato sauce – Specification
MS 28 Canned tomatoes – Specification
MS 63 Vegetable ghee – Specification
MS 811 Potato crisps- specification
MS 879 Potatoes-specification

67.100 Milk and milk products
MS 111 Dairy farming – Code of hygienic conditions for milking

67.100.01 Milk and milk products in general
MS 73 Raw cow’s milk – Specification
MS 74 Pasteurized cow’s milk – Specification
MS 75-1 Milk and Milk Products- Methods of sampling and chemical analysis for milk products.
MS 75-2 Milk and Milk Products : Microbiological examination
MS 196 Milk – Determination of titratable acidity
MS 197 Milk – Determination of freezing point
MS 198 Cream – Determination of fat content
MS 292 Milk and milk products – Methods of test – Microbiological examination
  Part 1: Total plate count
  Part 2: Coliform count
  Part 3: Yeasts and moulds
  Part 4: Swab test
MS 744 Use of dairy terms – General standard
MS 1006 Milkfat products-Specification (first ed)

67.100.10 Milk and processed milk products
MS 73 Raw cow’s milk – Specification
MS 74:2014 Pasteurized cow’s milk – Specification
MS 75-1 Milk and milk products – Part 1: Method of sampling microbiological analysis
MS 75-2 Milk and milk products – Part 2: Method of sampling and chemical analysis
MS 191 Yoghurts – Specification
  Part 1: Yoghurt and Sweetened yoghurt
  Part 2: Flavoured yoghurt
MS 291 Milk carriers industrial hygiene – Code of practice
MS 549 Milk powder handling – Code of practice.
MS 633 Milk powder – Specification
MS 751  Sweetened condensed milk – Specification
MS 752  Evaporated milks – Specification

67.100.20  Butter

MS 190  Cheese – Methods for chemical analysis

67.100.40  Ice cream and ice confectionery

MS 193  Dairy cream for direct consumption – Specification
MS 198  Cream – Determination of fat content
MS 809  UHT milk- specification
MS 816  Dairy fat Spreads-Specification

67.100.99  Other milk products

MS 191  Yoghurts – Specification
Part 1: Yoghurt and sweetened yoghurt
Part 2: Flavoured yoghurt

67.120  Meat, meat products and other animal produce

MS 769  Meat burgers – Specification
MS 839  Quick frozen shrimps or prawns - Specification

67.120.10  Meat and meat products

MS 199  Pork and beef sausages – Specification
MS 199-1  Sausages –Specification Part1: Pork and beef sausages
MS 199-2  Sausages-Specification Part2: Chicken sausages
MS 200  Meat animals for ante-mortem slaughter and post mortem – Transportation, handling and inspection – Code of practice
MS 206  Meat grading – Code of practice
MS 807  Luncheon meat- specification
MS 808  Cooked cured chopped meat- specification

67.120.30  Fish and fishery products

MS 115  Frozen fish – Specification
MS 116  Salted fish – Specification
MS 117  Smoked fish – Specification
MS 118  Canned fish, canned fish products, and canned marine mollusks - Specification
MS 510  Fish meal – Vocabulary
MS 770  Fresh fish – Specification
MS 837  Quick frozen fish fillets-Specification
MS 839  Quick frozen shrimps or prawns-Specification
MS 1244  Canned shrimps or prawns-specification
MS 1245  Canned tuna and bonito-specification
MS 1246  quick frozen blocks of fish fillet, minced fish flesh and mixtures of fillets and minced fish flesh-specification
MS 1249  Canned sardine and sardine type products-specification
67.140  Tea. Coffee. Cocoa

67.140.10  Tea

MS 43  Black tea – Specification
MS 410  Black tea – Methods of test
MS 412  Black – Methods of sampling
  Part 1: Sampling from large containers
  Part 2: Sampling from small container
MS 459  Black tea – Vocabulary
MS 896  Green tea-Definition and basic requirement
MS 897-2  Determination of substances characteristics of green and black tea
  Part 1: Content of total polyphenol in tea –colorimetric methods using folin - Ciocaltey reagent

67.140.20  Coffee and coffee substitutes

MS 630  Roasted and ground coffee - Specification

67.160  Beverages

MS 812  Bottled/packaged drinking water (other than natural mineral water) - Code of practice

67.160.10  Alcoholic beverages

MS 50  Beer – Specification
MS 107  Alcoholic beverages – Methods of test
MS 177  Fruit squashes – Specification
MS 178  Country wines – Specification
MS 208  Opaque beer – Specification
MS 210  Spirits – Specification

67.160.20  Non-alcoholic beverages

MS 18  Carbonated soft drinks – Specification
MS 22  Carbonated soft drinks – Methods of test
MS 26  Tomato juice – Specification
MS 57  Pineapple juice – Specification
MS 214  Drinking water – Specification
MS 248  Orange juice – Specification
MS 294  Fruit nectars – Specification
MS 295  Lemon juice Specification
MS 296  Passion fruit juice – Specification
MS 297  Mango juice – Specification
MS 298  Guava nectar – Specification
MS 295  Lemon juice – Specification
MS 516  Coffee and coffee products-vocabulary
MS 519  Thobwa powder – Specification
MS 560  Natural mineral waters- specification
MS 619  Fruit juices – Specification
MS 623  Mahewu-specification
MS 663  Mixed fruit juices – Specification
MS 665  Mixed fruit nectars – Specification
MS 699  Bottled drinking water other than natural mineral water (8p)
67.180 Sugar. Sugar products. Starch

67.180.10 Sugar and sugar products

MS 201 Biscuits – Specification
MS 202 Fortified white Sugar, – Specification
MS 205 Icing sugar-specification
MS 209 Fortified raw Sugar, – Specification
MS 227 Sugar confectionery – Specification
MS 232 Chewing gum and bubble gum – Specification
MS 366 Honey - Specification

67.180.20 Starch and derived products

MS 704 Cassava and maize starch for textile industry – Specification
MS 707 Starches and derived products – methods of test
MS 708 Starch and starch products – Methods of sampling

67.190 Chocolate

MS 771 Chocolate and chocolate products-specification

67.200 Edible oils and fats. Oilseeds

MS 213 Groundnuts – Specification
MS 228 Macadamia kernels – Specification
MS 461 Cashew kernels – Specification

67.200.10 Animal and vegetable fats and oils

MS 10 Tung oil – Specification
MS 51 Fortified edible oils and fats – Specification
MS 56 Edible oils and fats – Methods of analysis
MS 77 Groundnut oil – Specification
MS 78 Refined sunflower oil – Specification
MS 79 Refined cottonseed oil – Specification
MS 80 Rape seed oil – Specification
MS 154 Refined soya bean oil – Specification
MS 225 Margarine – Specification
MS 554 Peanut butter – Specification

67.220 Spices and condiments. Food additives

67.220.10 Spices and condiments

MS 25 Tomato puree – specification
MS 27 Tomato sauce – specification
MS 53 Chilli sauce – Specification
MS 96 Chillies and capsicums, whole or ground – Specification
MS 97 Curry powder – Specification
MS 140 Spices and condiments – Methods of sampling
MS 141 Spices and condiments – Determination of total ash
MS 142 Spices and condiments – Determination of filth
MS 152 Turmeric, whole or ground – Specification
MS 153 Coriander, whole or ground – Specification
MS 226 Garlic – Specification
MS 246 Ginger – Whole in pieces or ground – Specification
MS 303  Mint, dried – Specification
MS 304  Cinnamon – Whole or ground (powdered) – Specification
MS 305  Thyme, whole – Specification
MS 306  Celery seed, whole – Specification
MS 554  Peanut butter – Specification
MS 601  Nutmeg – Specification
MS 745  Mayonnaise – specification
MS 753  Raisins- specification
MS 918  Spices and condiments –determination of moisture content entrainment method
MS 919  Spices and condiments-determination of acid-insoluble ash
MS 920  Spices, condiments and herbs-determination of volatile oil content chydrodistillation method
MS 922  Spices and condiments –Determination pf non-volatile ether extract
MS 923  Pepper and pepper oleoresins-determination of piperine content, methods using high performance liquid chromatography (HPLC)
MS 924-1 Chilies and chilli oleoresins-
MS 924-2 Chilies and chilli oleoresins-determination of total capsaicinoid content
Part 2: method using high performance liquid chromatography
MS 925  Ginger and ginger oleoresins-determination of the main pungent componets (gingerols and shogaols) methods using high performance liquid chromatography (HPLC)
MS 1068  Ginger and ginger oleoresins- Botanical nomenclature

67.220.20  Food additives
MS 11  Artificial vinegar – Specification
MS 12  Vinegar – Methods of test
MS 188  Edible salt – Specification
MS 237  Food Additives-General Standard

67.230  Prepackaged and prepared foods
MS 19  Labelling of prepacked foods – General standard
MS 90  High-protein baby food – Specification
MS 93  High protein baby food – Methods of analysis
MS 477  Food for infants and children – Code of hygienic practice
MS 624  Nutrition labeling – Guidelines
MS 625  Nutrition claims – Guidelines
MS 743  Canned baby foods- specification

67.250  Sensory analysis

67.260  Plant and equipment for the food industry

71  CHEMICAL TECHNOLOGY

71.020  Production in the chemical industry

71.040  Analytical chemistry

71.040.01  Analytical chemistry in general

MS 169  Sampling of chemical products for industrial use – Safety in sampling
71.040.30  Chemical reagents
MS 702  Caustic soda, analytical and commercial – Specification

71.060  Inorganic chemicals
MS 813  Sulphuric acid for use in lead-acid batteries- specification

71.060.99  other inorganic chemicals
MS 187  School chalk – Specification

71.080  Organic chemicals
MS 372  Hand dish washing liquids – Specification

71:080:60  Alcohols. Ethers
MS 573  Ethanol – Specification

71.100  Products of the chemical industry
MS 556  Animal drawn mouldboard plough-Specification

71.100.01  Products of the chemical industry in genera
MS 468  Mosquito coils – Specification
MS 469  Mosquito coils – Methods of test

71.100.20  Liquid carbon dioxide, industrial-specification

71.100.40  Surface-active agents
MS 48  Carbolic soap – Specification
MS 65  Soap powder or chips – Specification
MS 253  Synthetic detergent powders for household use – Specification
MS 254  Synthetic detergent powders for household use – Methods of test
MS 373  Scouring powder – Specification
MS 575  Bleaching powder, stable – Specification

71.100.50  Wood protecting chemicals
MS 44  Timber, the preservative treatment – Code of practice
MS 254  Synthetic detergent powders for household use-Methods of test
MS 384  Wood preservatives – Specification
MS 408  Creosote for wood preservation – Specification
MS 591  Creosote, wood preserving (high temperature) – Specification
MS 592  Creosote, wood preserving (lurgi-gasification process) – Specification
MS 593  Wood preserving mixture of creosote and waxy oil
MS 596  Mixtures of copper – chromium. Arsenic compounds for timber preservatives.
MS 597  Boron timber preservatives – specification
MS 598 Safety in the wood preservation industry – Code of practice

71.100.70 Cosmetics. Toiletries

- MS 40 Detergent skin cleansers - specification
- MS 42 Bathing bars - Specification
- MS 48 Carbolic soap – Specification
- MS 49 Toilet soap – Specification
- MS 52 Liquid toilet soap – Specification
- MS 60 Soaps – Methods of analysis
- MS 108 Petroleum jelly for cosmetic industry – Specification
- MS 112 Toothpaste – Specification
- MS 250 Laundry soap – Specification
- MS 266 Cosmetics – Guidelines for hygienic manufacture
- MS 334 Skin care products – Specification
- MS 470 Hair creams – Specification
- MS 471 Hair oils – Specification
- MS 475 Hair shampoo, soap based – Specification
- MS 555 Glycerine for cosmetic industry – Methods of test
- MS 557 Glycerine for cosmetic use – Specification
- MS 671 Toilet soap (super fatter) - Specification
- MS 899 Restricted ingredients in cosmetics-methods of analysis

71.100.80 Chemicals for purification of water

- MS 91 Limes for water treatment – Specification

71.100.99 Other products of the chemical industry

- MS 267 Calcium carbonate (precipitated) for cosmetic industry – Specification
- MS 670 Sodium silicate - Specification

71.120 Equipment for the chemical industry

73 MINING AND MINERALS

73.020 Mining and quarrying

73.040 Coals

- MS 844 Coal mining and processing - Health safety, and Environmental protection – Code of practice
- MS 850 Classification of coals
- MS 851 Coal and coke, analysis and testing –determination of trace elements-guidance to the determination of trace elements
- MS 852 Coal and coke, analysis and testing –determination of trace elements-guidance to the determination of trace elements-coal coke and fly ash-determination of eleven trace elements-flame atomic absorption spectrometric methods
- MS 853 Hard Coal –Determination of coking power- Rega Test
- MS 854 Coal and coke-analysis and testing-Determination of trace elements- Determination of Boron Content-icp Aes Methods
- MS 855 Coal and coke-analysis and testing- higher rank coal ash and coke ash major and minor elements –acid digestion/flame atomic absorption spectrometric method
- MS 856 Hard Coal - Determination of caking power - Roga Test

© 2017 Catalogue of Malawi standards
MS 857 Coal burning appliances (Reduced smoke emission type)
MS 858 Wood charcoal and charcoal briquettes for household use-requirements and test methods
MS 859 Moisture content of coal samples intended for general analysis (vacuum-coal methods
MS 860 Moisture content of Coal samples intended for general analysis
MS 862 Coking properties of coal
MS 871 Hard Coal—Determination of moisture – Holding capacity
MS 872 Hard coal – determination of the crucible swelling number
MS 873 Hard coal-determination of total moisture
MS 874 Coal –determination of plastic properties-constant-torque-gieseler plastometer method
MS 878 Hard coal and coke - determination of volatile matter

73.060 Metalliferous minerals
73.080 Non-metalliferous minerals
73.100 Mining equipment
73.120 Equipment for processing of materials
75 PETROLEUM AND RELATED TECHNOLOGIES
75.020 Extraction and petroleum and natural gas
75.040 Crude petroleum
    MS 861 Carbon dioxide Content of coal (Titrimetric Method)
    MS 862 Coking properties of coal
75.060 Natural gas
75.080 Petroleum products in general
    MS 108 Petroleum jelly (Petrolatum) – Specification
    MS 538 Diesel – Specification
    MS 667 Petroleum industry – Terminology
    Part 2: Properties and tests
75.100 Lubricants, industrial oils and related products
    MS 45 Lubricating grease – Specification
    MS 577 Benzene, cleaning – Specification
    MS 667 Petroleum industry – Terminology
    Part 2: Properties and tests
    MS 845 Biodiesel flue-Specification
    MS 986 Petroleum products-fuels (class f)- gas turbine fuels for industrial and marine applications-
    speciation
    MS 989 Mineral lubricating oil used in steam or gas turbines-Specification
    MS 990 Lubricants, industrial oils and related products (class l) – family h (hydraulic systems) –
    specifications for hydraulic
    MS 991 Lubricants, industrial oils and related products (class l) – family x (greases) – specification
    MS 992-1 Lubricants, industrial oils and related products (Class L)- Family C (Gears)-
    Part 1: Specifications for lubricants for enclosed gear systems
MS 993  Lubricants, industrial oils and related products (Class L) -- Machine-tool lubricants - Categories and specifications
MS 994-1 Lubricants, industrial oils and related products (Class L) -- Classification - Part 1: Family A (Total loss system)

75.120  **Hydraulic**

MS 988  Standard guide for performance evaluation of hydraulic fluids for piston pumps

75.140  **Waxes, bituminous materials and other petroleum products**

MS 33  Candles -- Specification
MS 84  Wax floor polish -- Specification
MS 367  Wax polish -- Methods of test
MS 566  Wax shoe polish -- Specification

75.160  **Fuels**

75.160.10  **Solid fuels**

MS 844  Coal mining and processing - Health safety, and Environmental protection -- Code of practice
MS 850  Classification of coals
MS 853  Hard Coal -- Determination of coking power -- Rega Test
MS 854  Coal and coke--analysis and testing - Determination of trace elements - Determination of Boron Content - ICP AES Methods
MS 856  Hard Coal - Determination of caking power - Roga Test
MS 857  Coal burning appliances (Reduced smoke emission type)
MS 859  Moisture content of coal samples intended for general analysis (vacuum-coal methods
MS 860  Moisture content of Coal samples intended for general analysis
MS 862  Coking properties of coal
MS 870  Coal -- determination of forms of sulphur
MS 871  Hard Coal -- Determination of moisture -- Holding capacity
MS 872  Hard coal -- determination of the crucible swelling number
MS 878  Hard coal and coke - determination of volatile matter

75.160.20  **Liquid fuels**

MS 113  Petroleum industry - above-ground non-pressurised horizontal cylindrical storage tanks for petroleum industry -- Specification
MS 114  Petroleum Industry -- Underground non-pressurized horizontal storage tanks-manufacturing and testing
MS 170  Unleaded petrol -- Specification
MS 368  Methylated spirit -- Specification
MS 370  Methylated spirits -- Methods of test
MS 498  Illuminating paraffin -- Specification
MS 538  Diesel -- Specification

MS 172-1  The petroleum industry Part: 1: Storage and distribution of petroleum products in the above-ground bulk installations
MS 172-2  The petroleum industry Part 2: Electrical and other installations in the distribution and marketing sector
MS 172-3 The petroleum industry Part 3: The installation of underground storage tanks, pumps/ dispensors and pipe works at service stations and consumer installation-code of practice
MS 888 Jatropha straight vegetable Oil requirements and test methods

75.160.30 Gaseous fuels

MS 236-1 The handling, storage and distribution of liquefied petroleum gas in domestic, commercial and industrial installation - Code of practice, Part 1 Installations involving gas storage containers of individual water capacity not exceeding 500 L and a combined water capacity not exceeding 3 000 L per installation
MS 236-3 The handling, storage, distribution and maintenance of liquefied petroleum gas (LPG) in domestic, commercial, and industrial installations; Part 3: Installations involving storage vessels of individual water capacity exceeding 500 ℓ
MS 236-4 The handling, storage, distribution and maintenance of liquefied petroleum gas (LPG) in domestic, commercial, and industrial installations; Part 4: Transportation in bulk by road
MS 236-6 Code of practice for handling, storage, distribution and maintenance of liquefied petroleum gas (LPG) in domestic, commercial and industrial installations. Part 6; the application of liquied petroleum and compressed natural gas as engine fuels for internal combustion engines
MS 236-7 Code of practice for handling, storage, distribution and maintenance of liquefied petroleum gas (LPG) in domestic, commercial and industrial installations.
MS 236-8 Code of practice for the handling, storage, distribution and maintenance of liquefied petroleum gas (LPG) in domestic, commercial and industrial installation Part 8: the fuelling of fork lift trucks and other lp gas operated vehicles
MS 236-10 Code of practice for the handling, storage, distribution and maintenance of liquefied Petroleum Gas (LPG) in domestic, commercial, and industrial installation Part 10: mobile filling stations for refillable LPG containers of capacity not exceeding 9 kg

75.180 Equipment for petroleum and natural gas industries

75.200 Petroleum, petroleum products and natural gas handling equipment
MS 840 Above-ground storage tanks for petroleum products

77 METALLURGY

77.020 Production of metals
77.040 Testing of metals
77.060 Corrosion of metals
77.080 Ferrous metals
77.080.20 Steels

MS –ISO /TS 4949 Steel names based on letter symbols
77.100 Ferroalloys

77.120 Non-ferrous metals
77.140 Iron and steel products
MS 319  Steel door frames - Specification
MS 322  Mild steel nails – Specification
MS 509  Iron sheets, galvanized – Specification

7.140.15  Steels for reinforcement of concrete

MS 785-1  Steel for reinforcement of concrete
  Part 1: Plain bars
MS 785-2  Steel for the reinforcement of concrete
  Part 2: Ribbed Bars
MS 785-3  Steel for the reinforcement of concrete
  Part 3: Welded Fabric
MS –ISO 10544 Cold reduced steel wire for the reinforcement of concrete and the manufacture of welded fabric

77.140.50

MS 841  D-Iron bracket and insulator assembly - Characteristics and test method

77.140.60  Steel bars and rods

MS-ISO 10144 Certification scheme for steel bars and wires for the reinforcement of concrete structures
MS 775-1  Hot rolled steel bars – Dimensions of round bars
MS 775-2  Hot rolled steel bars – Dimensions of square bars
MS 775-3  Hot rolled steel bars – Dimensions of flat bars
MS 775-4  Hot rolled steel bars – Tolerances of round, square and flat bars

77.140.65  Steel wire, wire ropes and link chains

MS 321  Zinc-coated fencing wire (plain and barbed) – Specification

77.140.70  Steel profiles

MS 319  Steel door flames - Specification
MS 320  Windows and door made from rolled mild steel sections – Specification (20p)

77.150  Products of non-ferrous metals

77.160  Powder metallurgy

77.180  Equipment for the metallurgical industry

79  WOOD TECHNOLOGY

79.020  Wood technology processes
MS 44  Timber, the preservative treatment – Code of practice

79.040  Wood, sawn logs and sawn timber

MS 37  Preservative treated timber – Specification
MS 489  Wooden poles and cross-arms for power transmission, low voltage reticulation and telephone systems. – Specification
MS 493  Timber, hardwood furniture – Specification
MS 494  Softwood flooring boards – Specification
MS 496  Softwood brandering and battens specification
MS 499  Timber, stress graded softwood general structural – Specification
MS 502  Softwood furniture timber – Specification
MS 503  Softwood joinery timber – Specification
MS 600  Laminated timber (glulam) – Specification
MS 602  Mechanical stress grading of softwood timber (flexural method) – Code of practice
MS 921  Wood-determination of volumetric swelling
MS 927  Wood-sampling methods and general requirements for physical and mechanical tests
MS 929  Broadleaved sawn timber-nominal sizes (COMESA HARMINIZED)

**79.060 Wood-based panels**

MS 494  Boards, softwood flooring – Specification

**79.060.01 Wood-based panels in general**

MS 488  Wooden ceiling and paneling boards (10p)

**79.060.10**

MS 492  Plywood and composite boarders – specification

**79.060.20 Fibre and particle boards**

MS 599  Fibreboard products – Specification
  Part 1: Uncoated fibreboards
  Part 2: Coated fibreboards

**79.080 Semi-manufactures of timber**

**79.100 Cork and cork products**

**79.120 Woodworking equipment**

**81 GLASS AND CERAMICS INDUSTRIES**

**81.020 Processes in glass industries**

MS 397  Glazed ceramic sanitary-ware – Specification

**81.040 Glass**

MS 647-1  Safety glass for vehicles-Specification Part1: High penetration-resistant laminated safety glass
MS 647-3  Safety glass for vehicles-Specification Part3: Toughened safety glass
MS 782-1:2011  Glass in building - Basic soda lime silicate glass products
  Part 1: Definitions and General physical and mechanical
MS 782-2:2011  Glass In Building - Basic soda lime silicate glass products
  Part 2: Definitions and general physical and mechanical
MS 782-3:2011  Glass in Building - Basic soda lime silicate glass products
  Part 3: Polished wire glass
MS 782-4:2011  Glass in building - Basic soda lime silicate glass products
  Part 4: Drawn sheet glass
MS 782-5:2011  Glass in building - Basic soda lime silicate glass products
Part 5: Patterned glass

81.040.20
MS 789-1  Safety and security glazing materials for buildings
Part 1: Safety performance under human impact
MS 789-2  Safety and security glazing materials for buildings
Part 2: Burglar-resistant and vandal-resistant glazing materials
MS 789-3  Safety and security glazing materials for buildings
Part 3: Bullet-resistant glazing materials

81.060  Ceramics

81.080  Refractories

81.100  Equipment for the glass and ceramics industries

83  RUBBER AND PLASTICS INDUSTRIES

83.020  Manufacturing processes in the rubber and plastics industries

83.040  Raw materials for rubber and plastics

83.060  Rubber

83.080  Plastics

83.100  Cellular materials

MS 218  Polyurethane foam cores – Specification
MS 223  Polyurethane foams – Methods of test

83.120  Reinforced plastics

83.140  Rubber and plastic products

MS 20  Blow moulded plastic containers up to 5 litres capacity – Specification
MS 458  Rubber seals – Joint rings for water supply, drainage and sewerage pipelines material – Specification

83.140.20  Laminated sheets

MS 14  Glass-reinforced polyester (grp) laminated sheets (profile or flat) – Specification

83.140.99  Other rubber and plastic products

MS 13  Glass-reinforced polyester (grp) laminated products – Specification

83.160  Tyres

83.160.10  Road vehicle tyres

MS 529-1:  The production of reconditioned tyres. Part 1: Definitions (3p)
MS 529-3: The production of reconditioned tyres. Part 3: Repairs (5p)
MS 529-4: The production of reconditioned tyres. Part 4: Passenger car tyres (10p)
MS 529-5: The production of reconditioned tyres. Part 5: Weight truck cross-ply tyres (9p)
MS 529-6: The production of reconditioned tyres. Part 6: Bus and truck cross-ply tyres (13p)
MS 529-7: The production of reconditioned tyres. Part 7: Tyres reconditioned by the procured tread process (14 p)
MS 659 Pneumatic tyres for passenger cars and luggage trailers – Specification
MS 660 Pneumatic tyres for commercial vehicles and trailers – Specification

83.180 Adhesives
MS 46 Adhesives for the laminating and finger-jointing of timber for furniture and joinery, phenolic and aminoplast resin – Specification
MS 590 Polyvinyl acetate dispersion adhesives for wood – Specification
MS 656 Adhesives for use with ceramic tiles and mosaics – Specification

83.200 Equipment for the rubber and plastics industries

85 PAPER TECHNOLOGY
85.020 Paper production processes
85.040 Pulps

85.060 Paper and board
MS 360 Paper – Determination of bursting strength
MS 364 Paper and board – Determination of tensile properties
Part 1: Constant rate of loading method
Part 2: Constant rate of elongation method
MS 523 Paper – Determination of tearing strength
MS 524 Paper and board – Determination of bursting strength after immersion in water

85.080 Paper products
MS 569 Tissue paper
Part 1: General requirements (First ed)
Part 2: Toilet paper – Specification
Part 3: Facial tissues
Part 4: Paper towels
Part 5: Disposable wiping paper in rolls (first ed)

85.100 Equipment for the paper industry

87 PAINT AND COLOUR INDUSTRIES
87.020 Paint coating processes
87.040 Paints and varnishes
MS 278: Road marking paint – Specification
MS 279 Emulsion paint for new galvanized iron – Specification
MS 280 Emulsion paints – Specification
MS 282  High gloss synthetic enamel paint (alkyd type) – Specification
MS 283  paints – Methods of test
MS 287  Paints, priming paint for steel – Specification.
MS 288  Paints, primers for wood – Specification
MS 380  Distemper – Specification
MS 381  Bituminous aluminium paints-Specification (sec ed)
MS 383  Automotive paints –Specification
MS 386  Bituminous paints – Specification
MS 388:  Oil gloss paint for interior and exterior use – Specification
MS 389  Plaster primer (alkali-resistant, latex type) – Specification
MS 391  Varnish for interior use – Specification
MS 392  Varnish for wood floors – Specification
MS 393  Paint undercoat – Specification
MS 394  Aluminium finishing paint – specification
MS 398  Paint removers – specification
MS 891  Paints and varnishes –Visual comparison of the colour of paints.
MS 892  Paints and varnishes –Examination and preparation of test samples
MS 893  Paints and varnishes-Natural weathering of coatings-Exposure and assessment

87.060  Paint Ingredients
MS 823  Driers for paints and varnishes - Methods of test

87.060.10
MS 819-1:  Titanium dioxide pigments for paints
          Part 1: specifications and methods of test

87.060.30  Solvents
MS 378  Mineral turpentine – specification
MS 396  Mineral solvents for paint (white spirit and related hydrocarbons solvents) – specification

87.060.99
MS 817  Driers for paints and varnishes-specification
MS 823  Driers for paints and varnishes-method of test

87.080  Inks. Printing inks

87.100  Paint coating equipment
91  CONSTRUCTION MATERIALS AND BUILDING

91.010  Construction industry
91.020  Physical planning. Town planning
91.040  Buildings

91.040.01
MS 875  Building environment design-indoor environment –general principles
91.060  **Elements of buildings**

91.060.50  **Door and windows**
MS 616  Glazing putty for wooden and metal window frames – Specification

91.080  **Structures of buildings**

MS 820  Code of practice for design loadings for buildings.
MS 917  Rammed earth structures-Code of practice

91.080.10

MS 794-1  The structural use of concrete

91.080.20

MS 914  Timber structures-glued limited timber-test methods for determination of physical and mechanical properties
MS 928  Wood-determination of volumetric shrinkages
MS 930  Sawn timber-test methods-determination of ultimate strength in shearing parallel to grain

91.080.40

MS 793-1  The structural use of steel
Part 1: Limit-state design of hot rolled steelwork
MS 794-1  The structural use of concrete
Part 1: Design

91.090  **External structures**

91.100  **Construction materials**

91.100.10  **Cement. Gypsum. Lime. Mortar**

MS 29  Ordinary cement – Specification
MS 85  Limes for use in building – Specification
MS 88  Solvent cement for assembly of UPVC pipe fittings – Specification
MS 92  Limes – Methods of test
MS 414  Masonry cement (without air entrainment agents) – Specification
MS 629  Asbestos-cement drain and sewer pipes – Specification
MS 627  Fibre-cement sheets for roofing and cladding (corrugated and flat) – Specification
MS 755:  Gypsum rock for the manufacture of binders – Specification
MS 756  Gypsum core cornice – Specification
MS 913  Hydrated lime for use in sugar processing-specification

91.100.15  **Mineral Materials and Products**

MS 6  Burnt clay bricks – Specification (First revision)
MS 175  Burnt clay bricks – Code of practice for moulding and firing
MS 777  Stabilized soil blocks – Specification

© 2017 Catalogue of Malawi standards
91.100.25 Ceramic building products
MS 161 Cement roofing products – Specification

91.100.30 Concrete and concrete products
MS 71 Concrete building blocks – Specification
MS 309 Concrete floor and wall tiles – Specification
MS 838 Concrete works - Code of practice for minor works
MS 842 Aggregates from material sources - Aggregates for concrete - Specification

91.100.40 Products in fibre-reinforced cement
MS 495 Boards, fibre-cement – Specification
MS 627 Fibre-cement sheets for roofing and cladding (corrugated and flat) – Specification
MS 629 Asbestos-cement drain and sewer pipes – Specification

91.110.50 Binders. Sealing materials
MS 616 Glazing putty for wooden and metal window frames – Specification

91.120 Protection of and in buildings

91.120.10
MS 876 Building environment design guidelines to assess energy efficiency of new building

91.120.30 Water proofing
MS 263 Tarpaulins – Specification
MS 264 Loomstate cotton duck – Specification

91.120.40 Lightning protection
MS 310 Protection of building against lightning – Code of practice

91.140 Installations in buildings

91.140.60 Water supply systems
MS 348 Afridev deep-well handpump – Specification
MS 458 Rubber seals – Joint rings for water supply, drainage and sewerage pipelines material – Specification
MS 532 Borehole construction – Code of practice
MS 912-1 Plastics piping systems for hot and cold water installations-polypropylene (PP)
Part 1: General

91.140.70 Sanitary installations
MS 318 Cast iron brackets and supports for wash basins and sinks – Specification
MS 685 WC flushing cisterns - Specification
91.140.80  Drainage systems

MS 458  Rubber seals – Joint rings for water supply, drainage and sewerage pipelines material – Specification

91.160  Lighting

MS 889-12-1  Recommendations for small renewable energy and hybrid systems for rural electrification. Part 12-1: Selection of self-ballasted lamps (CFL) for rural electrification systems and recommendations for household lighting equipment

91.180  Interior finishing

91.190  Building accessories

91.200  Construction technology

91.220  Construction equipment

93  CIVIL ENGINEERING

93.010  Civil engineering in general


93.025  External water conveyance systems

93.030  External water conveyance systems

93.040  Bridge construction

93.060  Tunnel construction

93.080  Road engineering

93.080.30  Road equipment and installations

MS 317  Cast iron manhole covers, inspection covers and frames – Specification

93.100  Construction of railways

93.110  Construction of ropeways

93.120  Construction of airports

93.140  Construction of waterways and ports
<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>93.160</td>
<td>Hydraulic construction</td>
</tr>
<tr>
<td>MS 348</td>
<td>Afridev borehole handpumps – Specification</td>
</tr>
<tr>
<td>MS 532</td>
<td>Borehole construction – Code of practice</td>
</tr>
<tr>
<td>95</td>
<td>MILITARY ENGINEERING</td>
</tr>
<tr>
<td>95.020</td>
<td>Military engineering. Military affairs. Weapons</td>
</tr>
<tr>
<td>97</td>
<td>DOMESTIC AND COMMERCIAL EQUIPMENT ENTERTAINMENT. SPORTS</td>
</tr>
<tr>
<td>97.020</td>
<td>Home economics on general</td>
</tr>
<tr>
<td>97.030</td>
<td>Domestic electrical appliances in general</td>
</tr>
<tr>
<td>97.040</td>
<td>Kitchen equipment</td>
</tr>
<tr>
<td>97.040.20</td>
<td>Cooking ranges, working tables, ovens and stove hoods</td>
</tr>
<tr>
<td>MS 155</td>
<td>Cookstove, solid fuel – Type II – Specification</td>
</tr>
<tr>
<td>MS 157</td>
<td>Cookstove, liquid fuel non pressure – Specification</td>
</tr>
<tr>
<td>MS 158</td>
<td>Cookstove, solid fuel (type 1) – Specification</td>
</tr>
<tr>
<td>97.040.30</td>
<td>Domestic refrigeration appliances</td>
</tr>
<tr>
<td>MS 159</td>
<td>Cooler blocks – Specification</td>
</tr>
<tr>
<td>97.040.50</td>
<td>Small kitchen appliances</td>
</tr>
<tr>
<td>MS 520</td>
<td>Electrical appliances for heating liquids – specification</td>
</tr>
<tr>
<td>97.060</td>
<td>Laundry appliances</td>
</tr>
<tr>
<td>MS 156</td>
<td>Irons, solid fuel pressing – Specification</td>
</tr>
<tr>
<td>97.080</td>
<td>Floor treatment appliances</td>
</tr>
<tr>
<td>97.100</td>
<td>Domestic, commercial and industrial heating appliances</td>
</tr>
<tr>
<td>97.120</td>
<td>Automatic controls for household use</td>
</tr>
<tr>
<td>97.130</td>
<td>Shop fittings</td>
</tr>
<tr>
<td>97.140</td>
<td>Furniture</td>
</tr>
<tr>
<td>97.145</td>
<td>Ladders</td>
</tr>
<tr>
<td>97.150</td>
<td>Non-textile floor coverings</td>
</tr>
<tr>
<td>97.160</td>
<td>Home textile. Linen</td>
</tr>
<tr>
<td>97.170</td>
<td>Body care equipment</td>
</tr>
</tbody>
</table>
97.180  Miscellaneous domestic and commercial equipment

MS 186  Ballpoint pens – Specification
MS 221  Black lead pencil – Specification
MS 251  Safety wood matches – Specification
MS 252  Safety wood matches – Methods of test
MS 798  Instant noodles - Specification

97.190  Equipment for children

97.195  Items of art and handicrafts

97.200  Equipment for entertainment

97.200.01  Equipment for entertainment in general

MS 655  Gaming equipment – Specification
Part 1:  Casino equipment
Part 2:  Limited payout gaming equipment
Part 3:  Monitoring and control systems for gaming equipment
Part 4:  Chips, Plagues and Tokens
Part 5:  General equipment

97.220  Sports equipment and facilities

99  (No Title)
## SUMMARY ANALYSIS OF PRINTED MALAWI STANDARDS

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>NUMBER OF STANDARDS PER FIELD OF ACTIVITY</th>
<th>TOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CHEMICALS AND TEXTILES</td>
<td>ENGINEERING AND MATERIALS</td>
</tr>
<tr>
<td>Specifications</td>
<td>100</td>
<td>323</td>
</tr>
<tr>
<td>Vocabulary</td>
<td>5</td>
<td>19</td>
</tr>
<tr>
<td>Code of practice</td>
<td>36</td>
<td>67</td>
</tr>
<tr>
<td>Sampling and test methods</td>
<td>55</td>
<td>78</td>
</tr>
<tr>
<td>TOTALS</td>
<td>196</td>
<td>487</td>
</tr>
<tr>
<td>MS NO</td>
<td>MS TITLE</td>
<td></td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>1. MS-ISO/IEC GIUDE 43-1</td>
<td>Proficiency testing by inter-laboratory comparisons – Part 1: Development and operation of proficiency testing schemes</td>
<td></td>
</tr>
<tr>
<td>2. MS-ISO/IEC17020:2014</td>
<td>General criteria for the operation of various types of bodies performing inspection</td>
<td></td>
</tr>
<tr>
<td>3. MS1087:2015</td>
<td>Pallets for materials handling – Vocabulary</td>
<td></td>
</tr>
<tr>
<td>4. MS1339:2015</td>
<td>Wool – Determination of fibre length (barbe and hauteur) using a comb sorte</td>
<td></td>
</tr>
<tr>
<td>5. MS-ISO/IEC GUIDE 2:2016</td>
<td>Standardization and related activities – General vocabulary</td>
<td></td>
</tr>
<tr>
<td>8. MS-ISO/IEC GUIDE 68:2016</td>
<td>Arrangements for the recognition and acceptance of assessment results</td>
<td></td>
</tr>
<tr>
<td>11. MS 915-603:2012</td>
<td>International electro-technical vocabulary – Generation, transmission and distribution of electricity – Power systems planning and management</td>
<td></td>
</tr>
<tr>
<td>14. MS 915-421:2012</td>
<td>International electro-technical vocabulary – power transformers and reactors</td>
<td></td>
</tr>
<tr>
<td>15. MS 619:2016</td>
<td>Fruit juices and nectars</td>
<td></td>
</tr>
<tr>
<td>17. MS 762:2015</td>
<td>Structural timber – Visual strength grading – Basic principles</td>
<td></td>
</tr>
<tr>
<td>18. MS 785-1:2008</td>
<td>Steel for the reinforcement of concrete – Part 1: Plain bars</td>
<td></td>
</tr>
<tr>
<td>19. MS 807:2014</td>
<td>Luncheon Meat</td>
<td></td>
</tr>
<tr>
<td>20. MS 831-23:2016</td>
<td>Rotating electrical machines – Specification for the refurbishing of rotating electrical machines</td>
<td></td>
</tr>
<tr>
<td>22. MS 831-11:2016</td>
<td>Rotating electrical machines – Thermal protection</td>
<td></td>
</tr>
<tr>
<td>23. MS 831-7:2016</td>
<td>Rotating electrical machines – Classification of types of construction, mounting arrangements and terminal box position</td>
<td></td>
</tr>
<tr>
<td>24. MS 831-5:2016</td>
<td>Rotating electrical machines – Degrees of protection provided by the integral design of rotating electrical machines (IP code) - Classification</td>
<td></td>
</tr>
<tr>
<td>25. MS 831-4:2016</td>
<td>Rotating electrical machines – Methods for determining synchronous machine quantities from tests</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Standard Code</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
<td>---------------</td>
<td>-------------</td>
</tr>
<tr>
<td>26.</td>
<td>MS 831-3:2016</td>
<td>Rotating electrical machines – Specific requirements for turbine-type</td>
</tr>
<tr>
<td>27.</td>
<td>MS 831-1:2016</td>
<td>Rotating electrical machines – Rating and performance</td>
</tr>
<tr>
<td>29.</td>
<td>MS 914:2015</td>
<td>Solid timber in structural sizes – Determination of some physical and mechanical properties</td>
</tr>
<tr>
<td>31.</td>
<td>MS 926-3:2015</td>
<td>Pallets for materials handling – Flat pallets – Part 3: Maximum working loads</td>
</tr>
<tr>
<td>33.</td>
<td>MS 926-1:2015</td>
<td>Pallets for materials handling – Flat pallets – Part 1: Test methods</td>
</tr>
<tr>
<td>34.</td>
<td>MS 927:2015</td>
<td>Wood – Sampling methods and general requirements for physical and mechanical tests</td>
</tr>
<tr>
<td>35.</td>
<td>MS 928:2015</td>
<td>Wood – Determination of volumetric shrinkage</td>
</tr>
<tr>
<td>36.</td>
<td>MS 929:2015</td>
<td>Broadleaved sawn timber – Nominal sizes</td>
</tr>
<tr>
<td>37.</td>
<td>MS 930:2015</td>
<td>Sawn timber – Test methods – Determination of ultimate strength in shearing parallel to grain</td>
</tr>
<tr>
<td>38.</td>
<td>MS 931:2015</td>
<td>Cast carbon steels for general engineering purposes</td>
</tr>
<tr>
<td>39.</td>
<td>MS 933-3:2016</td>
<td>Stainless steels for general purposes – Part 3: Wire</td>
</tr>
<tr>
<td>40.</td>
<td>MS 932:2015</td>
<td>Steel for the reinforcement of pre-stressing of concrete - Vocabulary</td>
</tr>
<tr>
<td>41.</td>
<td>MS 933-2:2016</td>
<td>Stainless steels for general purposes – Part 2: Semi-finished products, bars, rods and sections</td>
</tr>
<tr>
<td>42.</td>
<td>MS 933-1:2016</td>
<td>Stainless steels for general purposes – Part 1: Flat products</td>
</tr>
<tr>
<td>43.</td>
<td>MS 934:2015</td>
<td>Design of control measures for street vended foods in Africa</td>
</tr>
<tr>
<td>44.</td>
<td>MS 935:2015</td>
<td>Principles for the establishment and application of microbiological criteria for foods</td>
</tr>
<tr>
<td>45.</td>
<td>MS 936:2015</td>
<td>Advisory list of mineral salts and vitamins compounds for use in food for infants</td>
</tr>
<tr>
<td>46.</td>
<td>MS 937:2015</td>
<td>Degermed Maize (Corn) Meal and Maize (Corn) Grits</td>
</tr>
<tr>
<td>47.</td>
<td>MS 949-12:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Emergency power supplies to safety services</td>
</tr>
<tr>
<td>48.</td>
<td>MS 938:2015</td>
<td>Sorghum flour - Specification</td>
</tr>
<tr>
<td>49.</td>
<td>MS 949-10:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Measurement of airborne noise by the enveloping surface method</td>
</tr>
<tr>
<td>50.</td>
<td>MS 939:2016</td>
<td>Food special for medical purposes</td>
</tr>
<tr>
<td>51.</td>
<td>MS 949-9:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Measurement and evaluation of mechanical vibrations</td>
</tr>
<tr>
<td>52.</td>
<td>MS 949-8:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Requirements and tests for low-power generating sets</td>
</tr>
<tr>
<td>53.</td>
<td>MS 942:2015</td>
<td>Canned Mangoes</td>
</tr>
<tr>
<td>54.</td>
<td>MS 941:2016</td>
<td>General Standard for the Labelling of and Claims for Pre-packaged Foods for Special Dietary Uses</td>
</tr>
<tr>
<td>55.</td>
<td>MS 949-7:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Technical declarations for specification and design</td>
</tr>
<tr>
<td>56.</td>
<td>MS 949-6:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Test methods</td>
</tr>
<tr>
<td>57.</td>
<td>MS 943:2016</td>
<td>Formula Foods for Use in Weight Control Diets</td>
</tr>
<tr>
<td>58.</td>
<td>MS 944:2015</td>
<td>Principles for food import and export inspection and certification</td>
</tr>
<tr>
<td>59.</td>
<td>MS 949-5:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Generating sets</td>
</tr>
<tr>
<td>60.</td>
<td>MS 949-4:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Control gear and switch gear</td>
</tr>
<tr>
<td>61.</td>
<td>MS 949-3:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Alternating current generators for generating sets</td>
</tr>
<tr>
<td>62.</td>
<td>MS 957-10-1:2015</td>
<td>Power transformers – Application guide</td>
</tr>
<tr>
<td>63.</td>
<td>MS 947:2015</td>
<td>Hydraulic turbines, storage pumps and pump-turbines Model acceptance tests</td>
</tr>
<tr>
<td>64.</td>
<td>MS 949-2:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Engines</td>
</tr>
<tr>
<td>65.</td>
<td>MS 957-10:2015</td>
<td>Power transformers – Determination of sound levels</td>
</tr>
<tr>
<td>66.</td>
<td>MS 948:2015</td>
<td>Guide to specification of hydraulic turbine control systems</td>
</tr>
<tr>
<td>67.</td>
<td>MS 949-1:2015</td>
<td>Reciprocating internal combustion engine driven alternating current generating sets – Application, ratings and performance</td>
</tr>
<tr>
<td>68.</td>
<td>MS 950:2015</td>
<td>Overhead lines – Requirements and tests for fittings</td>
</tr>
<tr>
<td>69.</td>
<td>MS 951:2015</td>
<td>Overhead lines – Requirements and tests for spacers</td>
</tr>
<tr>
<td>70.</td>
<td>MS 953-2:2015</td>
<td>Composite string insulator units for overhead lines with a nominal voltage greater than 1000 V – Dimensional and electrical characteristics</td>
</tr>
<tr>
<td>71.</td>
<td>MS 952:2015</td>
<td>Live working – Ladders of insulating material</td>
</tr>
<tr>
<td>72.</td>
<td>MS 953-1:2015</td>
<td>Composite string insulator units for overhead lines with a nominal voltage greater than 1000 V – Standard strength classes and end fittings</td>
</tr>
<tr>
<td>73.</td>
<td>MS 954:2015</td>
<td>Overhead lines – Calculation of the electrical component of distance between live parts and obstacles – Method of calculation</td>
</tr>
<tr>
<td>74.</td>
<td>MS 955:2015</td>
<td>Insulators for overhead lines – Composite line post insulators for a.c. with a nominal voltage greater than 1000 V</td>
</tr>
<tr>
<td>75.</td>
<td>MS 957-1:2015</td>
<td>Power transformers – Design and application of liquid-immersed power transformers using high-temperature insulation materials</td>
</tr>
<tr>
<td>76.</td>
<td>MS 959-2:2015</td>
<td>High voltage fuses – Expulsion fuses</td>
</tr>
<tr>
<td>77.</td>
<td>MS 960-2:2015</td>
<td>Insulation co-ordination – Application guide</td>
</tr>
<tr>
<td>78.</td>
<td>MS 963-3:2015</td>
<td>Convertor transformers – Part 3: Application guide</td>
</tr>
<tr>
<td>79.</td>
<td>MS 965-5:2016</td>
<td>Steel for the pre-stressing of concrete _ Part 5: Hot-rolled steel bars with or without subsequent processing</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>80.</td>
<td>MS 961:2015</td>
<td>Power cables with extruded insulation and their accessories for rated voltages above 150 kV (Urn = 170 kV) up to 500 kV (Urn = 550 kV) – Test methods and requirements</td>
</tr>
<tr>
<td>81.</td>
<td>MS 963-2:2015</td>
<td>Convertor transformers – Part 3: Transformers for HVDC applications</td>
</tr>
<tr>
<td>82.</td>
<td>MS 965-4:2016</td>
<td>Steel for the pre-stressing of concrete _ Part 4: Strand</td>
</tr>
<tr>
<td>83.</td>
<td>MS 963-1:2015</td>
<td>Convertor transformers – Part 1: Transformers for industrial applications</td>
</tr>
<tr>
<td>84.</td>
<td>MS 965-3:2016</td>
<td>Steel for the pre-stressing of concrete _ Part 3: Quenched and tempered wire</td>
</tr>
<tr>
<td>85.</td>
<td>MS 965-1:2015</td>
<td>Steel for the pre-stressing of concrete _ Part 1: General requirements</td>
</tr>
<tr>
<td>86.</td>
<td>MS 965-2:2016</td>
<td>Steel for the pre-stressing of concrete _ Part 2: Cold drawn wire</td>
</tr>
<tr>
<td>87.</td>
<td>MS 964:2015</td>
<td>Live working – Guidelines for the installation of transmission line conductors and earth wires – Stringing equipment and accessory items</td>
</tr>
<tr>
<td>89.</td>
<td>MS 966:2016</td>
<td>Textiles – Morphology of fibres and yarns - Vocabulary</td>
</tr>
<tr>
<td>90.</td>
<td>MS 971-3:2015</td>
<td>Textiles – Fibres and yarns – Determination of commercial mass of consignments – Part 3: Specimen cleaning procedures</td>
</tr>
<tr>
<td>91.</td>
<td>MS 967:2016</td>
<td>Textiles – Natural fibres – Generic names and definitions</td>
</tr>
<tr>
<td>92.</td>
<td>MS 969:2015</td>
<td>Wool – Measurement of the length of fibres processed on the worsted system, using a fibre diagram machine</td>
</tr>
<tr>
<td>93.</td>
<td>MS 971-2:2015</td>
<td>Textiles – Fibres and yarns – Determination of commercial mass of consignments – Part 2: Methods for obtaining laboratory samples</td>
</tr>
<tr>
<td>94.</td>
<td>MS 968:2016</td>
<td>Textiles – Cotton fibres – Evaluation of maturity by the air flow method</td>
</tr>
<tr>
<td>95.</td>
<td>MS 970:2015</td>
<td>Wool – Determination of mean diameter of fibres – air permeability method</td>
</tr>
<tr>
<td>96.</td>
<td>MS 971-1:2015</td>
<td>Textiles – Fibres and yarns – Determination of commercial mass of consignments – Part 1: Mass determination and calculations</td>
</tr>
<tr>
<td>97.</td>
<td>MS 972-2:2016</td>
<td>Textiles – Burning behavior of bedding items – Part 2: Specific test methods for the ignitability by a smouldering cigarette</td>
</tr>
<tr>
<td>98.</td>
<td>MS 972-1:2016</td>
<td>Textiles – Burning behavior of bedding items – Part 1: General test methods for the ignitability by a smouldering cigarette</td>
</tr>
<tr>
<td>100.</td>
<td>MS 982:2016</td>
<td>Soaps and detergents – Determination of chelating agent content – Titrimetric method</td>
</tr>
<tr>
<td>102.</td>
<td>MS 984:2016</td>
<td>Surface active agents and detergents – Determination of water content – Karl Fischer method</td>
</tr>
<tr>
<td>103.</td>
<td>MS 1005:2015</td>
<td>Dates</td>
</tr>
<tr>
<td>104.</td>
<td>MS 1006:2014</td>
<td>Milk fat products</td>
</tr>
<tr>
<td>105.</td>
<td>MS 1052:2016</td>
<td>Textiles – Fibres and yarns – Determination of length (span length) and uniformity index</td>
</tr>
<tr>
<td>No.</td>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
<td>-----------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>106</td>
<td>MS 1060:2015</td>
<td>Steel wire ropes for lifts – Minimum requirements</td>
</tr>
<tr>
<td>107</td>
<td>MS 1059:2016</td>
<td>Surface active agents – Detergents for washing fabrics – Guide for compar-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ative testing performance</td>
</tr>
<tr>
<td>108</td>
<td>MS 1061:2015</td>
<td>Steel wire ropes for general purposes – Minimum requirements</td>
</tr>
<tr>
<td>109</td>
<td>MS 1063:2015</td>
<td>Continuous hot-dip zinc-coated carbon steel sheet of structural quality</td>
</tr>
<tr>
<td>110</td>
<td>MS 1065-2:2015</td>
<td>Cold-formed welded structural hollow sections of non-alloy and fine grain</td>
</tr>
<tr>
<td></td>
<td></td>
<td>steels, Part 2: Dimensions and sectional properties</td>
</tr>
<tr>
<td>111</td>
<td>MS 1064:2015</td>
<td>Cold-reduced steel sheet of structural quality</td>
</tr>
<tr>
<td>112</td>
<td>MS 1065-1:2015</td>
<td>Cold-formed welded structural hollow sections of non-alloy and fine grain</td>
</tr>
<tr>
<td></td>
<td></td>
<td>steels, Part 1: Technical delivery conditions</td>
</tr>
<tr>
<td>113</td>
<td>MS 1066:2015</td>
<td>Hot-rolled steel sheet of structural quality</td>
</tr>
<tr>
<td>114</td>
<td>MS 1067:2015</td>
<td>Drawn wire for general purpose non-alloy steel wire ropes – Terms of ac-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ceptance</td>
</tr>
<tr>
<td>115</td>
<td>MS 1070:2016</td>
<td>Steel and steel products – Inspection documents</td>
</tr>
<tr>
<td>116</td>
<td>MS 1071:2015</td>
<td>Cold-reduced carbon steel sheet of commercial and drawing qualities</td>
</tr>
<tr>
<td>117</td>
<td>MS 1072:2015</td>
<td>High strength cat steels for general engineering and structural purposes</td>
</tr>
<tr>
<td>119</td>
<td>MS 1073:2015</td>
<td>Steel and iron – Sampling and preparation of samples for the determination of chemical composition</td>
</tr>
<tr>
<td>121</td>
<td>MS 1075:2015</td>
<td>Stainless steel tubes – Dimensions, tolerances and conventional masses per unit length</td>
</tr>
<tr>
<td>122</td>
<td>MS 1076:2015</td>
<td>Hot dip galvanized coatings on fabricated iron and steel articles – Specifica-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>tions and test methods</td>
</tr>
<tr>
<td>123</td>
<td>MS 1077:2015</td>
<td>Round non-alloy steel wires for stranded wire ropes for mine hoisting – Speci-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>fications</td>
</tr>
<tr>
<td>124</td>
<td>MS 1078:2015</td>
<td>Hot-rolled steel strip of structural quality</td>
</tr>
<tr>
<td>125</td>
<td>MS 1079:2015</td>
<td>Chemical analysis of steel – Order of listing elements</td>
</tr>
<tr>
<td>126</td>
<td>MS 1080:2015</td>
<td>Cold-reduced carbon steel sheet according to hardness requirements</td>
</tr>
<tr>
<td>127</td>
<td>MS 1085-1:2015</td>
<td>Wood – methods of physical and mechanical testing – Vocabulary – Part 1:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>general concepts and macrostructure</td>
</tr>
<tr>
<td>129</td>
<td>MS 1088:2015</td>
<td>Repair of flat wooden pallets</td>
</tr>
<tr>
<td>130</td>
<td>MS 1089:2015</td>
<td>Wood – Determination of ultimate strength in statistic bending</td>
</tr>
<tr>
<td>131</td>
<td>MS 1090:2015</td>
<td>Wood – Determination of modulus of elasticity in static bending</td>
</tr>
<tr>
<td>132</td>
<td>MS 1092:2015</td>
<td>Sawn timber of broadleaved species – Defects – Classification</td>
</tr>
<tr>
<td>133.</td>
<td>MS 1093:2015</td>
<td>Sawn timber of broadleaved species – Defects – Terms and definitions</td>
</tr>
<tr>
<td>134.</td>
<td>MS 1094:2015</td>
<td>Broadleaved sawn timber – Sizes – Methods of measurement</td>
</tr>
<tr>
<td>135.</td>
<td>MS 1095:2015</td>
<td>Hot-rolled stainless steel plates – Tolerances on dimensions and shape</td>
</tr>
<tr>
<td>136.</td>
<td>MS 1096:2015</td>
<td>Structural steels – surface condition of hot-rolled sections – Delivery requirements</td>
</tr>
<tr>
<td>137.</td>
<td>MS 1098-2:2015</td>
<td>Structural steels – Part 2: Technical delivery equipment for hot-finished hollow sections</td>
</tr>
<tr>
<td>138.</td>
<td>MS 1098-1:2015</td>
<td>Structural steels — Part 2: Technical delivery conditions for structural steels for general purposes</td>
</tr>
<tr>
<td>139.</td>
<td>MS 1099:2016</td>
<td>Cold-reduced steel sheet of higher yield strength with improved formability</td>
</tr>
<tr>
<td>140.</td>
<td>MS 1100:2016</td>
<td>Steel wire ropes – Vocabulary, designation and classification</td>
</tr>
<tr>
<td>141.</td>
<td>MS 1102:2016</td>
<td>Steels for general engineering purposes</td>
</tr>
<tr>
<td>142.</td>
<td>MS 1103:2016</td>
<td>Continuous hot-dip terne (lead alloy) coated cold-reduced carbon steel sheet of commercial drawing and structural qualities</td>
</tr>
<tr>
<td>143.</td>
<td>MS 1104:2016</td>
<td>Structural steels with improved atmospheric corrosion resistance</td>
</tr>
<tr>
<td>144.</td>
<td>MS 1105:2016</td>
<td>Cold-reduced steel sheet of high tensile strength and low yield point with improved formability</td>
</tr>
<tr>
<td>145.</td>
<td>MS 1106:2016</td>
<td>Fasteners – Hot dip galvanized coatings</td>
</tr>
<tr>
<td>146.</td>
<td>MS 1107:2016</td>
<td>Hot-rolled and cold-reduced electrolytic zinc-coated carbon steel sheet of commercial and drawing qualities</td>
</tr>
<tr>
<td>147.</td>
<td>MS 1108:2016</td>
<td>Steel products – Definitions and classification</td>
</tr>
<tr>
<td>148.</td>
<td>MS 1111:2014</td>
<td>Baby Corn</td>
</tr>
<tr>
<td>149.</td>
<td>MS 1109:2016</td>
<td>Continuous electrolytic tin-coated cold-reduced carbon steel sheet of commercial and drawing qualities</td>
</tr>
<tr>
<td>150.</td>
<td>MS 1244:2015</td>
<td>Canned Shrimps or Prawns</td>
</tr>
<tr>
<td>151.</td>
<td>MS 1245:2015</td>
<td>Canned Tuna and Bonito</td>
</tr>
<tr>
<td>152.</td>
<td>MS 1246:2015</td>
<td>Quick Frozen Blocks of Fish Fillet, Minced Fish Flesh and Mixtures of Fillets and Minced Fish Flesh</td>
</tr>
<tr>
<td>153.</td>
<td>MS 1249:2015</td>
<td>Sardine and Sardine type Products</td>
</tr>
<tr>
<td>154.</td>
<td>MS 1248:2016</td>
<td>Table olives</td>
</tr>
<tr>
<td>155.</td>
<td>MS 1263:2015</td>
<td>Couscous - Specification</td>
</tr>
<tr>
<td>156.</td>
<td>MS 1265:2015</td>
<td>Cooked Cured Ham</td>
</tr>
<tr>
<td>157.</td>
<td>MS 1303:2016</td>
<td>Steel tubes for water and sewage</td>
</tr>
<tr>
<td>158.</td>
<td>MS 1304:2016</td>
<td>Leather – Bovine wet blue – Specification</td>
</tr>
<tr>
<td>159.</td>
<td>MS 1305:2016</td>
<td>Leather – Wet blue sheep skins – Specification</td>
</tr>
<tr>
<td>Ms 1306:2016</td>
<td>Leather – Wet blue goat skins – Specification</td>
<td></td>
</tr>
<tr>
<td>Ms 1307:2016</td>
<td>Leather – Raw hides of cattle and horses – Preservation by stark salting</td>
<td></td>
</tr>
<tr>
<td>Ms 1308:2016</td>
<td>Leather – Guide to the selection of leather for apparel (excluding furs)</td>
<td></td>
</tr>
<tr>
<td>Ms 1309:2016</td>
<td>Leather – Sampling – number of items for a gross sample</td>
<td></td>
</tr>
<tr>
<td>Ms 1310:2016</td>
<td>Leather – Chemical, physical and mechanical and fastness tests – sampling location</td>
<td></td>
</tr>
<tr>
<td>Ms 1311:2016</td>
<td>Leather – Physical and mechanical tests – Sample preparation and conditioning</td>
<td></td>
</tr>
<tr>
<td>Ms 1312:2016</td>
<td>Leather – physical and mechanical test – determination of dry heat resistance of leather</td>
<td></td>
</tr>
<tr>
<td>Ms 1313:2016</td>
<td>Leather – Physical and mechanical tests – Determination of tensile strength and percentage extension</td>
<td></td>
</tr>
<tr>
<td>Ms 1315-2:2016</td>
<td>Leather -- Determination of water resistance of flexible leather -- Part 2: Repeated angular compression (Maeser)</td>
<td></td>
</tr>
<tr>
<td>Ms 1316-2:2016</td>
<td>Leather – Physical and mechanical tests – Determination of tear load – Part 2: Double edge tear</td>
<td></td>
</tr>
<tr>
<td>Ms 1314:2016</td>
<td>Leather – Physical and mechanical tests – Determination of surface coating thickness</td>
<td></td>
</tr>
<tr>
<td>Ms 1318:2016</td>
<td>Eastern Africa Power Pool — Data exchange Code (DEC)</td>
<td></td>
</tr>
<tr>
<td>Ms 1319:2016</td>
<td>Eastern Africa Power Pool — Interchange Scheduling and Balancing Codes (ISBC)</td>
<td></td>
</tr>
<tr>
<td>Ms 1323-2:2016</td>
<td>Plugs, socket-outlets and couplers for industrial purposes – Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories</td>
<td></td>
</tr>
<tr>
<td>Ms 1329-4:2016</td>
<td>Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1.2 kV) up to 30 kV (Um = 36 kV) – Part 3: test requirements on accessories for cables with rated voltages from 6 kV (Um = 7.2 kV) and 30 kV (Um = 36 kV)</td>
<td></td>
</tr>
<tr>
<td>Ms 1338:2016</td>
<td>Surface active agents and detergents – methods of test</td>
<td></td>
</tr>
<tr>
<td>Ms 1341-3:2016</td>
<td>Bales – Part 3: Bales of cotton – Packaging and labelling</td>
<td></td>
</tr>
<tr>
<td>Ms 1341-2:2016</td>
<td>Bales – Part 2: Bales of man-made staple fibres – Dimensions</td>
<td></td>
</tr>
<tr>
<td>Ms 1341-1:2016</td>
<td>Cotton bales – Dimensions and density</td>
<td></td>
</tr>
<tr>
<td>Ms 1343:2016</td>
<td>Low-acid and acidified low-acid canned foods</td>
<td></td>
</tr>
<tr>
<td>Ms 1345:2016</td>
<td>Recommended international code of practice for control of the use of veterinary drugs</td>
<td></td>
</tr>
<tr>
<td>Ms 1348:2016</td>
<td>Quick frozen Broccoli</td>
<td></td>
</tr>
<tr>
<td>Ms 1350:2016</td>
<td>Dried fruits</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Standard Reference</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
<td>-------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>186</td>
<td>MS 1351:2016</td>
<td>Quick frozen strawberries</td>
</tr>
<tr>
<td>187</td>
<td>MS 1352:2016</td>
<td>Canned strawberries</td>
</tr>
<tr>
<td>188</td>
<td>MS 1353:2016</td>
<td>Quick frozen cauliflower</td>
</tr>
<tr>
<td>189</td>
<td>MS 1354:2016</td>
<td>Code of Hygienic Practice for Dehydrated Fruits and Vegetables including Edible Fungi</td>
</tr>
<tr>
<td>190</td>
<td>MS 1357:2016</td>
<td>Cocoa Butter Confectionery</td>
</tr>
<tr>
<td>191</td>
<td>MS 1358:2016</td>
<td>Quick frozen French fried potatoes</td>
</tr>
<tr>
<td>192</td>
<td>MS 1360:2016</td>
<td>Desiccated coconut</td>
</tr>
<tr>
<td>193</td>
<td>MS 1405:2016</td>
<td>Dried Shark Fins</td>
</tr>
<tr>
<td>194</td>
<td>MS 1406:2016</td>
<td>Pickled cucumbers</td>
</tr>
<tr>
<td>195</td>
<td>MS 1407:2016</td>
<td>Quick frozen peas</td>
</tr>
<tr>
<td>196</td>
<td>MS-ISO:10007:2016</td>
<td>Quality management systems – Guidelines for configuration management</td>
</tr>
<tr>
<td>197</td>
<td>MS-ISO 10012:2016</td>
<td>Measurement management systems – Requirements for measurement processes and measuring equipment</td>
</tr>
<tr>
<td>198</td>
<td>MS-ISO 10144:2008</td>
<td>Certification scheme for steel bars and wire for the reinforcement of concrete structures</td>
</tr>
<tr>
<td>199</td>
<td>MS-ISO 17025</td>
<td>General requirements for the competence of testing and calibration laboratories</td>
</tr>
<tr>
<td>200</td>
<td>MS-ISO/IEC 17000:2016</td>
<td>Conformity assessment – Vocabulary and general principles</td>
</tr>
<tr>
<td>201</td>
<td>MS-ISO/PAS 17002:2016</td>
<td>Conformity assessment – Confidentiality – Principles and requirements</td>
</tr>
<tr>
<td>202</td>
<td>MS-ISO/PAS 17003:2016</td>
<td>Conformity assessment – Complaints and appeals – Principles and requirements</td>
</tr>
<tr>
<td>204</td>
<td>MS-ISO/IEC 17011:2016</td>
<td>Conformity assessment – General requirements for accreditation of bodies accrediting conformity assessment bodies</td>
</tr>
<tr>
<td>205</td>
<td>MS-ISO/IEC 17024:2016</td>
<td>Conformity assessment – General requirements for bodies operating certification of persons</td>
</tr>
<tr>
<td>206</td>
<td>MS-ISO/IEC TR 17026:2016</td>
<td>Conformity assessment -- Example of a certification scheme for tangible products</td>
</tr>
<tr>
<td>208</td>
<td>MS-ISO 17030:2016</td>
<td>Conformity assessment – general requirements for third-party marks of conformity</td>
</tr>
<tr>
<td>209</td>
<td>MS-ISO 17034:2016</td>
<td>General requirements for the competence of reference material producers</td>
</tr>
<tr>
<td>210</td>
<td>MS-ISO/IEC 17065:2016</td>
<td>Conformity assessment -- Requirements for bodies certifying products, processes and services</td>
</tr>
</tbody>
</table>
### SADC HARMONIZED STANDARDS ADOPTED BY MALAWI

<table>
<thead>
<tr>
<th>NO</th>
<th>MS NO</th>
<th>MS TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MS 6:1994</td>
<td>Burnt clay bricks – specification (second edition) (12 p) m</td>
</tr>
<tr>
<td>2</td>
<td>MS 72:1995</td>
<td>Footwear and footwear materials – methods of test (first edition) (32p) v</td>
</tr>
<tr>
<td>3</td>
<td>MS 29:2001</td>
<td>Cement – specification (second edition) (25 p) m</td>
</tr>
<tr>
<td>4</td>
<td>MS-ISO 19011:2011</td>
<td>Guidelines for auditing management systems (49p) v</td>
</tr>
<tr>
<td>5</td>
<td>MS 320:2006</td>
<td>Windows and doors made from rolled mild steel sections – specification (m)</td>
</tr>
<tr>
<td>6</td>
<td>MS 319:2006</td>
<td>Steel door frames – specification (m)</td>
</tr>
<tr>
<td>7</td>
<td>MS 660:2002</td>
<td>Pneumatic tyres for commercial vehicles and trailers – specification (m)</td>
</tr>
<tr>
<td>8</td>
<td>MS 659:2002</td>
<td>Pneumatic tyres for passenger cars and luggage trailers – specification (m)</td>
</tr>
<tr>
<td>9</td>
<td>MS 647-1:2010</td>
<td>Safety glass for vehicles-specification part1: high penetration-resistant laminated safety glass (m)</td>
</tr>
<tr>
<td>10</td>
<td>MS 414-1:2002</td>
<td>Masonry cement – specification (m)</td>
</tr>
<tr>
<td>11</td>
<td>MS 643-1:2013</td>
<td>Retro-reflective and fluorescent warming signs for road vehicles-specification</td>
</tr>
<tr>
<td>12</td>
<td>MS 643-4:2013</td>
<td>Retro-reflective and fluorescent warning signs for road vehicles-specification</td>
</tr>
<tr>
<td>13</td>
<td>MS 643-5:2013</td>
<td>Retro-reflective and fluorescent warning signs for road vehicles-specification</td>
</tr>
<tr>
<td>14</td>
<td>MS 642-1:2012</td>
<td>Lights for motor vehicles part 1:incandescent lamps</td>
</tr>
<tr>
<td>15</td>
<td>MS 642-2:2012</td>
<td>Lights for motor vehicle part 2:headlights</td>
</tr>
<tr>
<td>16</td>
<td>MS 642-3:2012</td>
<td>Lights for motor vehicles part 3: secondary lights</td>
</tr>
<tr>
<td>17</td>
<td>MS 652-1:2012</td>
<td>Braking (motor and towed vehicles, designed for low or for use off public roads) – specification (8p) m</td>
</tr>
<tr>
<td>18</td>
<td>MS 652-2:2012</td>
<td>Braking (motor and towed vehicles, designed for low or for use off public roads) – specification (8p) m</td>
</tr>
<tr>
<td>19</td>
<td>MS 903-3:2012</td>
<td>The determination of performance (at net power) of internal combustion engines part 3: agricultural vehicle internal combustion engine at sea level</td>
</tr>
<tr>
<td>20</td>
<td>MS 903-2:2012</td>
<td>The determination of performance (at net power) of internal combustion engines part 2: compression ignition engines at altitude</td>
</tr>
<tr>
<td>21</td>
<td>MS 903-1:2012</td>
<td>The determination of performance (at net power) of internal combustion engines part 1 road vehicle internal combustion</td>
</tr>
<tr>
<td>22</td>
<td>MS 904:2012</td>
<td>The measurement of noise emitted by road vehicles when stationary</td>
</tr>
<tr>
<td>23</td>
<td>MS 905:2012</td>
<td>Uniform provisions concerning the approval of retro-reflective devices for power-driven vehicles and their trailers</td>
</tr>
<tr>
<td>24</td>
<td>MS 917:2013</td>
<td>Rammed earth structures — code of practice</td>
</tr>
</tbody>
</table>
## ALPHABETICAL SUBJECT INDEX

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>MS Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td></td>
</tr>
<tr>
<td>Above ground, etc</td>
<td>113</td>
</tr>
<tr>
<td>Acoustics</td>
<td></td>
</tr>
<tr>
<td>Electro-acoustic</td>
<td>61672-1, 61672-2</td>
</tr>
<tr>
<td>Noise Pollution</td>
<td>173</td>
</tr>
<tr>
<td>Adaptors (See plugs)</td>
<td></td>
</tr>
<tr>
<td>Socket out-let</td>
<td>9</td>
</tr>
<tr>
<td>Additives food</td>
<td>237</td>
</tr>
<tr>
<td>Adhesives for the laminating and finger jointing of timber for furniture and joinery –</td>
<td></td>
</tr>
<tr>
<td>phenolic and aminoplast resin</td>
<td>46</td>
</tr>
<tr>
<td>Adhesive for wood, polyvinyl acetate dispersion</td>
<td>590</td>
</tr>
<tr>
<td>Adhesives, wood-terminology and classification</td>
<td>36</td>
</tr>
<tr>
<td>Aflatoxin,</td>
<td></td>
</tr>
<tr>
<td>Prevention and reduction of aflatoxin contamination in groundnuts</td>
<td>843</td>
</tr>
<tr>
<td>Afridev borehole hand pumps</td>
<td>348</td>
</tr>
<tr>
<td>Aggregates from natural sources-Aggregates for concrete-requirements and test methods</td>
<td>842</td>
</tr>
<tr>
<td>Agricultural</td>
<td></td>
</tr>
<tr>
<td>food products</td>
<td>144</td>
</tr>
<tr>
<td>hand hoe</td>
<td>76</td>
</tr>
<tr>
<td>Liming Materials</td>
<td>531</td>
</tr>
<tr>
<td>premises</td>
<td>60364-7-705</td>
</tr>
<tr>
<td>Air</td>
<td></td>
</tr>
<tr>
<td>Ambient Air-Methods of Sampling and test</td>
<td>740</td>
</tr>
<tr>
<td>Air-break switches, manually operated</td>
<td>8</td>
</tr>
<tr>
<td>Alcoholic beverages</td>
<td>107</td>
</tr>
<tr>
<td>Aluminium</td>
<td></td>
</tr>
<tr>
<td>finishing paint</td>
<td>394</td>
</tr>
<tr>
<td>conductors</td>
<td>60055-1, 61394</td>
</tr>
<tr>
<td>alloy</td>
<td>61394</td>
</tr>
<tr>
<td>Ambient Air-Methods of Sampling and test</td>
<td>740</td>
</tr>
<tr>
<td>Animal feeds and feeding stuffs</td>
<td>289</td>
</tr>
<tr>
<td>Animal feeding stuffs</td>
<td>511</td>
</tr>
<tr>
<td>Animals, meat antemortem slaughter and post mortem transportation</td>
<td>200</td>
</tr>
</tbody>
</table>

© 2017 Catalogue of Malawi standards
Animal and vegetable ghee

Animal drawn moldboard plough - specification

Animal drawn plough shares, single furrow

Appliances,
safety specification for
  domestic
  electrical
  electricity for heating liquids
  power and lighting
  switches for

Apricots - specification (dried)

Aqueous electrolyte

Arc welding

Artificial Vinegar
testing methods

Asbestos-cement drain and sewer pipes

Assessment, conformity

Attributes,
  inspection by

Auditing management system

Avocado

Axes and hatchets

Baby food, high protein
  methods of test

Baby corn - specification

Baby cotton nappies

Bags, plastic

Bagged fertilizers, handling and storage

Ballpoint pens - Specification

Ballast

Bandages, open woven

Bare conductors

Buildings,
  Loadings for buildings
  Environmental design – indoor environment – General principle
  electrical installation of
common rules..........................................................................................60364-5-51
electrical installations of agricultural premises...............................60364-7-705
external lighting installations.................................................................60364-7-714
initial.......................................................................................................60364-6-61
protection against electric shock .........................................................60364-4-41
protection against over-current .........................................................60364-4-43
protection against thermal effects.....................................................60364-4-42

Batteries, lead-acid starter
code of practice for handling and operation......................................420, 60095-1
dimensions of batteries .................................................................60095-2
dimensions of batteries for trucks.....................................................60095-4
General requirements ........................................................................60095
methods of test...................................................................................181
Specification ......................................................................................180
traction batteries ..............................................................................60254-2

Batteries,
International electrotechnical vocabulary.........................................60050-482
primary part 1: General .................................................................60086-1
part 2: Physical and electrical specification .....................................60086-2
part 3: Watch batteries .................................................................60086-3
part 4: Safety of lithium batteries ..................................................60086-4
part 5: Safety of aqueous electrolyte batteries ..............................60086-5
primary dry cell..................................................................................35
secondary batteries for PVES .......................................................61427
Selection of batteries and battery management systems ..................889-8-1

Beans....................................................................................................245
Fresh green.........................................................................................195
Soya......................................................................................................244
Milk and drink...................................................................................748

Beam scales..........................................................................................199
Bed sheets, cotton...............................................................................273
Beef and pork sausages.....................................................................199
Beer.....................................................................................................50
opaque..................................................................................................208
Benzene, cleaning..............................................................................577
Beverages, alcoholic...........................................................................107
Biodiesel flues....................................................................................805
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biscuits</td>
<td>201</td>
</tr>
<tr>
<td>Bituminous paint</td>
<td>386</td>
</tr>
<tr>
<td>Black lead pencil</td>
<td>221</td>
</tr>
<tr>
<td>Black polyethylene pipes for the conveyance of liquids, test methods.</td>
<td>407</td>
</tr>
<tr>
<td>High density, low density</td>
<td>374</td>
</tr>
<tr>
<td>Black tea</td>
<td>43</td>
</tr>
<tr>
<td>Black tea vocabulary</td>
<td>459</td>
</tr>
<tr>
<td>Black tea methods of test</td>
<td>410</td>
</tr>
<tr>
<td>Blades, rotor</td>
<td>61400-23</td>
</tr>
<tr>
<td>Bleaching Powder</td>
<td>577</td>
</tr>
<tr>
<td>Blocks, stabilized soil</td>
<td>777</td>
</tr>
<tr>
<td>Blood meal as livestock feed</td>
<td>424</td>
</tr>
<tr>
<td>Blow-moulded plastic containers</td>
<td>42</td>
</tr>
<tr>
<td>Boards fibre cement</td>
<td>495</td>
</tr>
<tr>
<td>Boards, softwood flooring</td>
<td>494</td>
</tr>
<tr>
<td>Bonding conductors</td>
<td>60364-5-54</td>
</tr>
<tr>
<td>Bone meal as livestock feed</td>
<td>423</td>
</tr>
<tr>
<td>Boots, heavy-duty leather</td>
<td>70</td>
</tr>
<tr>
<td>……………… pvc</td>
<td>123</td>
</tr>
<tr>
<td>……………… rubber</td>
<td>94</td>
</tr>
<tr>
<td>Borehole and shallow wells</td>
<td>733</td>
</tr>
<tr>
<td>Borehole construction</td>
<td>532</td>
</tr>
<tr>
<td>Borehole water</td>
<td>733</td>
</tr>
<tr>
<td>Boron timber preservatives</td>
<td>597</td>
</tr>
<tr>
<td>Bottled drinking water</td>
<td>812</td>
</tr>
<tr>
<td>Bracket, D- iron</td>
<td>841</td>
</tr>
<tr>
<td>Braking (motor and towed vehicles, designed for low or for use off public roads).</td>
<td>652-1</td>
</tr>
<tr>
<td>Bread, common</td>
<td>31</td>
</tr>
<tr>
<td>Bricks, burnt clay</td>
<td>6</td>
</tr>
<tr>
<td>Bricks, moulding and firing – Code of practice</td>
<td>175</td>
</tr>
<tr>
<td>Broadcast, method of test for receivers for TV</td>
<td>60107-1</td>
</tr>
<tr>
<td>Bubblegum, chewing gum</td>
<td>232</td>
</tr>
<tr>
<td>Building environment design guidelines to assess energy efficiency of new building.</td>
<td>876</td>
</tr>
<tr>
<td>Building environment design-indoor environment – general principles.</td>
<td>875</td>
</tr>
<tr>
<td>Building concrete blocks</td>
<td>71</td>
</tr>
<tr>
<td>Building protection against lighting</td>
<td>310</td>
</tr>
<tr>
<td>……………… Design for loadings</td>
<td>820</td>
</tr>
</tbody>
</table>
Burning appliances, coal .............................................................................................................. 857
Burnt clay bricks ...................................................................................................................... 6
Butter
  peanut Butter ......................................................................................................................... 554
  specification ......................................................................................................................... 192
Bun ........................................................................................................................................ 234
C
Cable trunking and ducting .................................................................................................. 61084-1
Cables
  arc welding electrode cables ............................................................................................... 60245-6
  calculation of thermal resistance ......................................................................................... 60287-2-1
  colours of the cores of ............................................................................................................ 60173
  cords and flexible cables ......................................................................................................... 60245-4
  cords for applications requiring high flexibility ................................................................. 60245-8
  economic optimization ............................................................................................................ 60287-3-2
  electric, .................................................................................................................................. 60050-461
  flexible, .................................................................................................................................. 60227-5
  general requirements .............................................................................................................. 60245-1
  general .................................................................................................................................. 60287-1-1
  heat resistance silicone insulated cables ............................................................................... 60245-3
  lift cables ................................................................................................................................ 60245-5
  methods for calculating reduction factors ............................................................................. 60287-2-2
  reference operating conditions and selection of cable types ............................................... 60287-3-1
Rubber insulated,
  screened and unscreened ....................................................................................................... 60227-7
  test methods ......................................................................................................................... 60245-2
  for flexible connection ............................................................................................................. 60227-6
  guide to the selection of high-voltage cables ........................................................................ 60183
  low frequency,
  general test and measuring methods .................................................................................... 60189-1
  cables in pairs, triples, quads and quintuples ....................................................................... 60189-2
  guide to the calculation of resistance of plain and coated copper conductors.................. 60344
  multi-core and systematic pair/quad for digital communication ........................................... 61156-1
  power
  test method for accessories for ............................................................................................ 61442
  economic optimization of ...................................................................................................... 60287-
PVC insulated
  flexible cables screened and unscreened ............................................................................... 60227-7
  flexible cables ......................................................................................................................... 60227-5
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>general requirements</td>
<td>60227-1</td>
</tr>
<tr>
<td>lift cables and cables for flexible connection</td>
<td>60227-6</td>
</tr>
<tr>
<td>non-sheathed cables for fixed wiring</td>
<td>60227-3</td>
</tr>
<tr>
<td>sheathed cables for fixed wiring</td>
<td>60227-4</td>
</tr>
<tr>
<td>test methods</td>
<td>60227-2</td>
</tr>
<tr>
<td>Candles</td>
<td>33</td>
</tr>
<tr>
<td>Canned baby foods</td>
<td>743</td>
</tr>
<tr>
<td>Canned pineapples</td>
<td>24</td>
</tr>
<tr>
<td>Canned tomatoes</td>
<td>28</td>
</tr>
<tr>
<td>Canned shrimps or prawns-specification</td>
<td>1244</td>
</tr>
<tr>
<td>Canned tuna and bonito-specification</td>
<td>1245</td>
</tr>
<tr>
<td>Canned sardine and sardine type products-specification</td>
<td>1249</td>
</tr>
<tr>
<td>CAN</td>
<td>272</td>
</tr>
<tr>
<td>Cap,</td>
<td></td>
</tr>
<tr>
<td>characteristics of</td>
<td>60305</td>
</tr>
<tr>
<td>lamp caps</td>
<td>60061-DB-1, 60061-DB-2</td>
</tr>
<tr>
<td>Carbolic Soap</td>
<td>48</td>
</tr>
<tr>
<td>Carbon dioxide content of coal</td>
<td>861</td>
</tr>
<tr>
<td>Carbonated soft drinks methods of test</td>
<td>18</td>
</tr>
<tr>
<td>Cashew kernels</td>
<td>461</td>
</tr>
<tr>
<td>Cassava flour</td>
<td>349</td>
</tr>
<tr>
<td>Cast iron brackets and support for</td>
<td></td>
</tr>
<tr>
<td>wash basins and sinks</td>
<td>318</td>
</tr>
<tr>
<td>manhole covers</td>
<td>317</td>
</tr>
<tr>
<td>Castor seeds for the manufacture of oil-specification</td>
<td>426</td>
</tr>
<tr>
<td>Casual shoes, plastic</td>
<td>109</td>
</tr>
<tr>
<td>Caustic soda</td>
<td>702</td>
</tr>
<tr>
<td>Cement</td>
<td>29</td>
</tr>
<tr>
<td>masonry cement (without air entrainment agents)</td>
<td>414</td>
</tr>
<tr>
<td>solvent cement for assembly of UPVC pipe fittings</td>
<td>88</td>
</tr>
<tr>
<td>Cement roofing tiles</td>
<td>161</td>
</tr>
<tr>
<td>Celery seed, whole</td>
<td>306</td>
</tr>
<tr>
<td>Cells</td>
<td></td>
</tr>
<tr>
<td>primary and secondary</td>
<td>60050-482</td>
</tr>
<tr>
<td>secondary cells for PVES</td>
<td>61427</td>
</tr>
<tr>
<td>Cords</td>
<td></td>
</tr>
</tbody>
</table>
flexible cables…………………………………………………………………………………………………….60245-4
for applications requiring high flexibility…………………………………………………………………….60245-8
colours of………………………………………………………………………………………………………60173
flexible cords……………………………………………………………………………………………………60227-5
Ceramic, glazed sanitary ware…………………………………………………………………………………397
Ceramic insulators
D-iron………………………………………………………………………………………………………….841
characteristics of cap and pin insulators……………………………………………………………………60305
definition, test methods and acceptance criteria…………………………………………………………60383-1
characteristics of long rod insulators………………………………………………………………………..60433
methods of test………………………………………………………………………………………………60672-2, 60383-1
Cereal and cereal products
determination of alpha amylase activity……………………………………………………………………151
determination of fat content………………………………………………………………………………148
determination of moisture content………………………………………………………………………610
determination of ash content………………………………………………………………………………149
Cereals,
  Determination of hidden insect infestation……………………………………………………………...518-2
  Determination of hidden insect infestation……………………………………………………………...518-3
  Determination of hidden insect infestation……………………………………………………………..518-4
  sampling………………………………………………………………………………………………………146
Cereals and pulses
  ash content……………………………………………………………………………………………………149
  grains…………………………………………………………………………………………………………146
  milled products…………………………………………………………………………………………...145
  mass of 1000 grains……………………………………………………………………………………609
  wet gluten in wheat, determination of……………………………………………………………..……..150
Certification scheme for steel………………………………………………………………………………10144
CFLS, selection of CFLs for rural electrification ……………………………………………………………889-12-1
Chalk, school……………………………………………………………………………………………………187
Cheddar………………………………………………………………………………………………………….802
Cheese, methods for chemical analysis……………………………………………………………………190
Chemical laboratories, code of safety……………………………………………………………………125
Chemical products for industrial use, safety in sampling………………………………………………169
Child labour……………………………………………………………………………………………………700
Chilli sauce……………………………………………………………………………………………………...53
<table>
<thead>
<tr>
<th>Category</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chillies and capscums, whole or ground</td>
<td>96</td>
</tr>
<tr>
<td>Chillies and chilli oleoresins</td>
<td>924-2</td>
</tr>
<tr>
<td>Chitenje</td>
<td>588</td>
</tr>
<tr>
<td>Cinnamon, whole or ground (powdered)</td>
<td>304</td>
</tr>
<tr>
<td>Clay bricks burnt</td>
<td>64</td>
</tr>
<tr>
<td>Cleansers, detergent</td>
<td>40</td>
</tr>
<tr>
<td>Clip, papers</td>
<td>728</td>
</tr>
<tr>
<td>Coal,</td>
<td></td>
</tr>
<tr>
<td>Burning appliances (reduced smoke emission type)</td>
<td>857</td>
</tr>
<tr>
<td>Carbon dioxide content of coal (Titrimetric method)</td>
<td>861</td>
</tr>
<tr>
<td>Classification of coals</td>
<td>840</td>
</tr>
<tr>
<td>Coking properties of coal</td>
<td>862</td>
</tr>
<tr>
<td>Determination of plastic properties-constant-torque-gieseler plastometer method</td>
<td>874</td>
</tr>
<tr>
<td>Hard coal - determination of caking power - roga test</td>
<td>856</td>
</tr>
<tr>
<td>Hard coal – determination of the crucible swelling number</td>
<td>872</td>
</tr>
<tr>
<td>Hard coal and coke-determination of volatile matter</td>
<td>878</td>
</tr>
<tr>
<td>Hard coal–determination of moisture – holding capacity</td>
<td>871</td>
</tr>
<tr>
<td>Hard coal-determination of total moisture</td>
<td>873</td>
</tr>
<tr>
<td>Mining and processing health, safety, and environmental protection- code of practice</td>
<td>844</td>
</tr>
<tr>
<td>Moisture Content of coal samples intended for general analysis</td>
<td>860</td>
</tr>
<tr>
<td>Moisture content of coal samples intended for general analysis, vacuum-coal methods</td>
<td>859</td>
</tr>
<tr>
<td>Coal and coke, analysis and testing</td>
<td></td>
</tr>
<tr>
<td>determination of trace elements-guidance to the determination of trace elements</td>
<td>851</td>
</tr>
<tr>
<td>determination of trace elements-coal coke and fly –ash-determination of eleven trace elements-flame atomic absorption spectrometric methods</td>
<td>852</td>
</tr>
<tr>
<td>higher rank coal ash and coke ash major and minor elements –acid digestion/flame atomic absorption spectrometric method</td>
<td>855</td>
</tr>
<tr>
<td>determination of forms of sulphur</td>
<td>870</td>
</tr>
<tr>
<td>Code of hygienic practice for fresh fruits and vegetables</td>
<td>1112</td>
</tr>
<tr>
<td>Coffee,</td>
<td></td>
</tr>
<tr>
<td>Roasted</td>
<td>630</td>
</tr>
<tr>
<td>Coffee and coffee products, vocabulary</td>
<td>516</td>
</tr>
<tr>
<td>Coils</td>
<td></td>
</tr>
<tr>
<td>mosquito</td>
<td>468</td>
</tr>
<tr>
<td>method of test</td>
<td>469</td>
</tr>
</tbody>
</table>

© 2017 Catalogue of Malawi standards
Combating child labour/social responsibility ................................................................. 700
Common bread ............................................................................................................... 31
Concrete
  building blocks ........................................................................................................... 777
  floor and wall tiles ................................................................................................... 309
Concrete works ........................................................................................................... 838
Concrete steel for the reinforcement
  plain bars .................................................................................................................. 785-1
  ribbed bars ............................................................................................................... 785-2
  welded fabrics ......................................................................................................... 785-3
Condiments and spices
  methods of sampling .............................................................................................. 140
Condoms, nature latex
  reusable rubber contraceptive diaphragms ............................................................... 307
  ................................................................................................................................. 308
Conductors
  bare .......................................................................................................................... 61597, 61394
  copper conductors .................................................................................................. 60344, 60055-2
  of insulated cables .................................................................................................. 60228
  protective and unprotective bonding ..................................................................... 60364-5-54
  screened and unscreened ......................................................................................... 60227-7
  stranded .................................................................................................................... 60888, 61394, 61597
Conductor covers ....................................................................................................... 61479
Conductors of insulated cables .................................................................................. 60228
Conduit
  conduit fittings of insulating material ...................................................................... 61035-2-2
  fittings, non-metallic (electrical wiring) and ............................................................ 2
  general requirements .............................................................................................. 61386-1, 61035-1
  specification for metal conduit fittings ................................................................... 61035-2-1
Confectionary, sugar .................................................................................................... 227
Conformity assessment ............................................................................................. 17025
  requirements for bodies certifying products, processes and services .................. 17065
  requirements for operation of various types of bodies performing inspection ...... 17020
Containers, blow-moulded ......................................................................................... 20
  freight ....................................................................................................................... 102
  freight, terminology ................................................................................................ 101
Contaminants ............................................................................................................. 302
Cooked cured chopped meat ...................................................................................... 808
Cook stove
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>liquid fuel no pressure</td>
<td>157</td>
</tr>
<tr>
<td>solid fuel (Type one)</td>
<td>158</td>
</tr>
<tr>
<td>Cordages and ropes</td>
<td>341</td>
</tr>
<tr>
<td>Cords, flexible (electrical)</td>
<td>15</td>
</tr>
<tr>
<td>Coriander</td>
<td>153</td>
</tr>
<tr>
<td>Corn-specification (baby)</td>
<td>1111</td>
</tr>
<tr>
<td>Corrugated board containers</td>
<td>724</td>
</tr>
<tr>
<td>Corrugated board containers – Methods f test</td>
<td>767</td>
</tr>
<tr>
<td>Cosmetics, manufacture</td>
<td>266</td>
</tr>
<tr>
<td>Cosmetic industry, Petroleum jelly for</td>
<td>108</td>
</tr>
<tr>
<td>Cosmetic use, Glycerine</td>
<td>557</td>
</tr>
<tr>
<td>restricted ingredients in cosmetics-methods of analysis</td>
<td>899</td>
</tr>
<tr>
<td>Cotton</td>
<td></td>
</tr>
<tr>
<td>baby napkins</td>
<td>270</td>
</tr>
<tr>
<td>bed sheets</td>
<td>273</td>
</tr>
<tr>
<td>duck loomstate cotton</td>
<td>264</td>
</tr>
<tr>
<td>seed oil</td>
<td>79</td>
</tr>
<tr>
<td>towels</td>
<td>269</td>
</tr>
<tr>
<td>Country wines</td>
<td>178</td>
</tr>
<tr>
<td>Cowpeas specification</td>
<td>242</td>
</tr>
<tr>
<td>Cow’s milk, raw</td>
<td>73</td>
</tr>
<tr>
<td>Creosote for wood preservation</td>
<td>408</td>
</tr>
<tr>
<td>Creosorte, wood preserving (high temperature)</td>
<td>591</td>
</tr>
<tr>
<td>Creasorte, wood preserving</td>
<td>592</td>
</tr>
<tr>
<td>Cream-Determination of fat content</td>
<td>198</td>
</tr>
<tr>
<td>Crisps, potatoes</td>
<td>811</td>
</tr>
<tr>
<td>Crystalline silicon terrestrial</td>
<td>711</td>
</tr>
<tr>
<td>Cured meat</td>
<td>808</td>
</tr>
<tr>
<td>Curry powder</td>
<td>97</td>
</tr>
<tr>
<td><strong>D</strong></td>
<td></td>
</tr>
<tr>
<td>Daily solar</td>
<td>61725</td>
</tr>
<tr>
<td>Dairy cattle feed supplements-specification</td>
<td>416</td>
</tr>
<tr>
<td>Dairy cream</td>
<td>193</td>
</tr>
<tr>
<td>Dairy farming code of hygienic conditions for milking</td>
<td>111</td>
</tr>
<tr>
<td>Dairy fat Spreads</td>
<td>816</td>
</tr>
<tr>
<td>Dairy ice cream</td>
<td>194</td>
</tr>
</tbody>
</table>
Dairy terms – Use........................................................................................................................................... 744

Dangerous goods
- emergency information system for rail transport .................................................................................. 845-2
- emergency response guides ...................................................................................................................... 845-3
- packaging and large packaging for road and rail transport .................................................................. 720-2

Dangerous goods, transportation
- designed, construction, testing approval and maintenance of road vehicles and portable tanks ....... 849
- intermediate bulk containers for road and rail transport ....................................................................... 736
- operational requirements for road vehicles ........................................................................................... 847

Dates-specification ......................................................................................................................................... 1005

Disposal of effluents of the dairy industry - code of practice ...................................................................... 534

Data exchange, PV system .......................................................................................................................... 61724

Decorticated, whole, pearl millet grain ........................................................................................................ 544

Detergent powders for household use
- test methods ............................................................................................................................................... 254

Detergent skin cleansers ............................................................................................................................. 40

Devices,
- PV solar .................................................................................................................................................... 60904-3
- domestic lighting ....................................................................................................................................... 60432-1

Diesel ............................................................................................................................................................... 538

D-Iron Bracket and insulator assembly - Characteristics and test method .................................................. 841

Dish, hand washing liquids .......................................................................................................................... 372

Distemper powders ....................................................................................................................................... 380

Domestic solar water heaters
- Mechanical qualification test ...................................................................................................................... 760
- Specification ............................................................................................................................................... 758
- Thermal performance using an indoor test ................................................................................................. 767-2
- Thermal performance using an outdoor test .............................................................................................. 767-1

Drain sewer pipes, UPVC ............................................................................................................................ 3

Drainage pipe installation above ground UPVC .......................................................................................... 5

Dried apricots-specification .......................................................................................................................... 1110

Driers for paints and varnishes .................................................................................................................... 823

Drinking water
- specification ............................................................................................................................................... 214
- control and surveillance of water supply ................................................................................................. 678
bottled water other than natural mineral water.................................................................699

Drinks
fruit flavoured..................................................................................................................747
soft, carbonated..................................................................................................................18
test methods...................................................................................................................22

Dry cells and batteries.....................................................................................................35
Dry garden peas specification..........................................................................................243
Dry-type transformers....................................................................................................60076-11

Edible oils .........................................................................................................................51
methods of analysis..........................................................................................................56
salt.....................................................................................................................................188

Effluent treatment plants ...............................................................................................732
disposal of effluents of the dairy industry - code of practice........................................534

Electric acoustics.............................................................................................................61672
Electric cables..................................................................................................................60287
kettles and jugs.................................................................................................................60530
shock, protection against...............................................................................................60364-4-41, 61140
welding .........................................................................................................................60050-851

Electric cables
Thermal resistance
Cables in pair, triples, quads and quintuples ...............................................................60189-2
Calculation of reduction factors for groups of cables .................................................60287-2-2
Calculation of thermal resistance ..............................................................................60287-2-1
Conductors of insulated cables ..................................................................................60228
Economic optimization of power cable size ..............................................................60287-3-2
Guide to selection of high-voltage cables .................................................................60183
Low frequency ..............................................................................................................60189-2
Non-sheathed cables for fixing wires ..........................................................................60227-3
Paper insulated metal sheathed, test on ......................................................................60055-1
Reference operating conditions and selection of cable type ....................................60287-3-1
Test methods .................................................................................................................60227-2

Electrical appliances, safety .........................................................................................17, 60335-1
connectors for towing and towed vehicles ................................................................. 653
installations for buildings
  electrical installation of agricultural and horticultural premises ....................... 60364-7-705
  equipment ............................................................................................................. 60364-5-52
  external lighting installations .............................................................................. 60364-7-714
fundamental principles ......................................................................................... 60364-1
  protection for safety ............................................................................................. 60364-4-41
  selection and erection of electrical equipment .................................................. 60364-5-51
  verification .......................................................................................................... 60364-6-61
flexible cables/cords
  colours of ............................................................................................................ 60173
  flexible cables screened and unscreened ............................................................ 60227-7
  flexible cables ..................................................................................................... 60227-5
  for power and lighting appliances ....................................................................... 15
  lift cables cables for flexible connection ............................................................ 60227-6
  overhead conductors ............................................................................................ 61597
Electrification, Recommendations for Small renewable energy and Hybrid Systems for rural electrification
  Integrated system - user interface ....................................................................... 889-9-3
  Selection of batteries and battery management systems for stand-alone Electrification Systems - specific case of automotive flooded lead-acid batteries available in developing countries ............ 889-8-1
  Selection of self-ballasted lamps (CFL) for rural electrification systems and recommendations for household lighting equipment ................................................................. 889-12-1
Electromagnetic compatibility (emc) part1: general section 1: application and interpretation of fundamental definitions and terms ......................................................................................... 1260-1-1
  Part 3-11: Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems-Equipment with rated current75 A and subject to conditional connection
  Part 4-1: Testing and measurement technics-Overview of IEC 61000-4 series
  Part 4-9: Testing and measurement techniques –Pulse magnetic field immunity
Electronic transformer ............................................................................................ 60044-1
Emissions
  industrial emissions from mobile stationery source ............................................. 737
Emulsion paints
  Exterior and interior decoration ........................................................................... 280
  for galvanized iron ............................................................................................... 279

© 2017 Catalogue of Malawi standards
Enamel paints, high-gloss synthetic ................................................................. 282
Energy management system - requirements with guidance for use .............. 877
Environmental Management systems auditing, guidelines for quality and environmental ........................................ 19011
Environmental Management: (COMESA) Data documentation format.......................................................... 14048
Requirements and guidelines ........................................................................ 14044
Vocabulary ....................................................................................................... 14050
Environmental management – Life cycle assessment – Coal and scope definition and inventory analysis..... 14041
Environmental auditing guidelines, General principles............................... 14010
Environmental auditing guidelines, Audit procedures................................ 14011
Environmental auditing guidelines, Qualification criteria........................... 14012
Environmental labels and declarations –self declared environmental claims (type ii environmental labelling) ................................. 14021
Environmental management – Life cycle assessment – Principles ............. 14040
Environmental management systems .......................................................... 14001
Environmental performance evaluation ....................................................... 14031
Ethanol – Specification ................................................................................. 573
Ethyl dibromide insecticide ........................................................................... 376
F
Fabric lining for footwear ............................................................................. 315
Farm implements
  methods of Sampling .................................................................................. 530
Fashion men’s shoes .................................................................................... 312
Fashion plastic shoes ................................................................................. 109
Fats and oils, edible ....................................................................................... 51
Fat spreads, daily .......................................................................................... 816
Fencing wire .................................................................................................. 321
Fertilizer and soil conditioner ...................................................................... 167
Fertilizers
  ammonium-sulphate .................................................................................. 258
  bagged (handling and storage) .................................................................. 265
  CAN ........................................................................................................... 272
  compound .................................................................................................. 255
  determination of ammoniacal nitrogen ...................................................... 632
  determination of bulk density (bulk) .......................................................... 325
  determination of bulk density (loose) ........................................................ 324
  marking, presentations and declarations .................................................. 249
  nitrate of soda ......................................................................................... 352
  methods of test ......................................................................................... 259
sulphate of potash.................................................................................................................. 355
super phosphate........................................................................................................................... 271
urea............................................................................................................................................. 351
vocabulary, fertilizers and soil conditions......................................................................................... 167

Feeds
pig............................................................................................................................................... 240
poultry........................................................................................................................................ 21

Feeds and feeding stuff .................................................................................................................... 289
animals....................................................................................................................................... 511

Fibre-cement boards.................................................................................................................... 495
Fibre-cement sheets for roofing and cladding (corrugated and flat).............................................. 627

Fish
Canned ....................................................................................................................................... 118
Fresh ......................................................................................................................................... 770
Frozen ....................................................................................................................................... 115
Meal ........................................................................................................................................... 422
Salted .......................................................................................................................................... 116
Smoked ...................................................................................................................................... 117
Quick frozen fish fillets .................................................................................................................. 837
Quick frozen shrimps or prawns ................................................................................................... 839
Quick frozen blocks of fish fillet, minced fish flesh and mixtures of fillets and minced fish flesh-
specification.................................................................................................................................... 1246

Fishing nets
hanging of netting......................................................................................................................... 137
netting (basic terms)..................................................................................................................... 137
text system.................................................................................................................................. 132

Fishmeal as livestock feed.............................................................................................................. 422

Fittings, UPVC pipes

  drain and sewer.......................................................................................................................... 3
  installation (code of practice).................................................................................................... 7
  installation (above ground water).............................................................................................. 5
  pressure (cold ground)............................................................................................................. 4
  solvent cement.......................................................................................................................... 88

Flexible cords (for power and lighting appliances)........................................................................... 15
Flames, steel doors ....................................................................................................................... 319
Flexible cables ............................................................................................................................ 60245-4, 60227-5, 60227-6, 60227-7, 60173
Flood lights.................................................................................................................................. 60598-2-5
Floor and wall tiles, concrete.......................................................................................................... 309

© 2017 Catalogue of Malawi standards
Flooring boards, softwood .......................................................... 494
polish, wax .......................................................... 84

Flour
 cassava, edible .......................................................... 349
maize .......................................................... 34
sorghum .......................................................... 938
wheat .......................................................... 30

Fluorescent
 Lamps, glow-starters for .......................................................... 60155
lights .......................................................... 709

Foams, polyurethane .......................................................... 218
methods of test .......................................................... 223

Food additives—general standard .......................................................... 237

Food colour, synthetic .......................................................... 301

Food, high protein baby .......................................................... 90
 hygiene, general principles .......................................................... 21
 prepacked, labeling, Code of practice .......................................................... 19
 infants and children, Code of hygiene practice .......................................................... 477

Food import and export inspection and certification (principles) .......................................................... 944

Food manufacturing,
Prerequisite programmes on food safety .......................................................... 22002-1

Foodstuff,
 methods for the detection of GMO and derived products
 general requirements and definitions .......................................................... 24276
 protein based method .......................................................... 21572
 quantitative nucleic acid based methods .......................................................... 21570

Food, safety management .......................................................... 22000
guidance on the application .......................................................... 22004

Pre-requisites programmes .......................................................... 22002-1

Footwear
 fabric lining .......................................................... 314
 materials, methods of test .......................................................... 72
 side upper leather .......................................................... 315
 threads .......................................................... 316
 Threads, methods of tests .......................................................... 358

Fortified edible oils .......................................................... 51

Fortified
 flour .......................................................... 34
wheat .......................................................... 30
Fortified
  raw sugar.........................................................................................................................209
  white sugar......................................................................................................................2

Freight containers
  specification.......................................................................................................................102
  terminology.....................................................................................................................101

Fresh green beans.............................................................................................................195

Fresh fruits and vegetables, code of hygienic practice for..............................................1112

Fresh pineapple................................................................................................................231

Frozen fish fillets, method of test ....................................................................................823

Fruit
  flavoured drinks..............................................................................................................747
  juice passion)...................................................................................................................296
  juices, mixed....................................................................................................................663
  nectar...............................................................................................................................294
  nectars, mixed................................................................................................................665
  squashes..........................................................................................................................177

Fruit & vegetables processed, methods of tests..............................................................23

Furniture hardwood timber............................................................................................493
  iron sheets.......................................................................................................................509

Fuses, low voltage
  example of types of standardized fuses for use by an authorized person .....................60269-2-1
  examples of types of standardized fuses by unskilled persons .....................................60269-3-1
  fuses for use by authorized persons .............................................................................60269-2
  fuses for use by unskilled persons ...............................................................................60269-3
  general requirements ....................................................................................................60269-1

G

Galvanized
  iron sheets.......................................................................................................................509
  steel wire..........................................................................................................................321

Gaming equipment specification......................................................................................655

Garlic specification..........................................................................................................226

General requirements (pesticides)..................................................................................120

Generator, wind turbine..................................................................................................60050-415, 61400-1, 61400-2, 61400-12-1

Ghee
  mixed animal and vegetable...........................................................................................64
  vegetable..........................................................................................................................63
Ginger whole, in pieces or ground........................................................................................................246
Glass reinforced polyester (GRP)
  laminated products................................................................................................................13
  laminated sheets......................................................................................................................14
Glass in building - basic soda lime silicate glass products
  definitions and general physical and mechanical................................................................782-1
  drawn sheet glass..................................................................................................................782-4
  patterned glass......................................................................................................................782-5
  polished wire glass................................................................................................................782-3
Glazed ceramic sanitary ware......................................................................................................397
Glazing, putty.............................................................................................................................616
Glow-starters..................................................................................................................................60155
Glycerine for cosmetic use...........................................................................................................557
Goggles, welding.........................................................................................................................106
Grain
  maize ........................................................................................................................................32
  pear millet...............................................................................................................................544
  sorghum ...................................................................................................................................542
  wheat .......................................................................................................................................55
Green fresh beans ......................................................................................................................195
Ground coffee roasted coffee......................................................................................................630
Groundnut
  code of hygienic practice for groundnuts................................................................................804
  oil..............................................................................................................................................77
  Prevention and reduction of aflatoxin contamination in groundnuts..................................843
  raw ........................................................................................................................................213
Grow-starter for fluorescent lamps ............................................................................................60155
Guava nectar ..............................................................................................................................298
Guidance on Social Responsibility...........................................................................................26000
Guidelines,
  environmental performance evaluation.....................................................................................14031
  For quality and environmental management systems auditing .........................................19011
Gum, chewing and bubble..........................................................................................................232
Gypsum: rock for the manufacture of binders..........................................................................755
Gypsum: Core cornia – Specification .........................................................................................756

H
Hair shampoo, hair creams...........................................................................................................475
Hakkets, and access....................................................................................................................183
Hand dish washing liquids..........................................................................................................372
Hand hoe, agriculture...................................................................................................................76

Handling, storage, distribution and maintenance of liquefied petroleum gas (LPG) in domestic, commercial and industrial installations.
  mobile filling stations for refillable LPG containers of capacity not exceeding 9 kg.............236-10
  the application of liqued petroleum and compressed natural gase as engine fuels for internal combustion engines................................................................. 236-6
  the fuelling of fork lift trucks and other lp gas operated vehicles........................................ 236-8

Hard coal, determination of,
  crucible swelling number........................................................................................................ 872
  Moisture holding capacity....................................................................................................... 871
  volatile matter....................................................................................................................... 878

Hardwood timber for furniture.................................................................................................93

Handpumps, Afridev borehole..................................................................................................348

Hazard analysis critical control point (HACCP) system ..........................................................300

Helmets welding .....................................................................................................................106

Hessian cloth...........................................................................................................................337

Hides and skins, raw - Guidelines for grading.......................................................................290

Hides and skins, raw defects....................................................................................................293

Hides and skins raw - Rules for preservation..........................................................................358

High-gloss synthetic enamel paint..........................................................................................282

High-protein baby food
  specification.............................................................................................................................90
  methods of analysis...............................................................................................................93

Honey
  methods of test.....................................................................................................................801
  specification..........................................................................................................................366

Hybrid systems for rural electrification
  Part 12-1: selection of self-ballasted lamps .................................................................889-12-1
  Part 8-1: selection of batteries and battery management systems for stand-alone ..........889-8-1
  Part 9-3: Integrated system - user Interface......................................................................889-9-3

Hygienic practice for fresh fruits and vegetables (code).........................................................1112

Icing sugar - specification........................................................................................................205

Illuminating paraffin..................................................................................................................498

Industrial
  emissions – emissions from mobile stationery source....................................................... 737
  heavy leather boots............................................................................................................... 70
  hygiene (milk carriers).......................................................................................................... 291
  Industrial and safety poly (vinylchloride) boots.................................................................123

© 2017 Catalogue of Malawi standards
rubber boots.................................................................................................................................94
safety PVC boots...........................................................................................................................123
sewing thread (synthetic fibre)......................................................................................................261
Infants, children food, hygienic practice......................................................................................477
Insecticides
Ethylene-dibromides.....................................................................................................................376
Methyl dibromide insecticide fumigant........................................................................................375
Inspection covers, cast iron........................................................................................................317
Instant noodles.............................................................................................................................798
Instrument transformers
Current transformer .....................................................................................................................60044-1
Electronic voltage transformers ..................................................................................................60044-7
Inductive voltage transformers ....................................................................................................60044-2
Insulator, ceramic.........................................................................................................................841
Insulation resistance of solid material.........................................................................................60167
Irons, pre, solid fuel.......................................................................................................................156
Iron sheets, galvanized..................................................................................................................509
Integrated systems......................................................................................................................889-9-3
J
Jams, jellies and marmalades.......................................................................................................176
Jatropha straight vegetable oil requirements and test methods.................................................888
Jugs, methods for measuring the performance of ......................................................................60530
Juice
      guava......................................................................................................................................298
      lemon......................................................................................................................................295
      mango.....................................................................................................................................297
      mixed fruit..............................................................................................................................663
      orange.....................................................................................................................................248
      passion fruit............................................................................................................................296
      pineapple................................................................................................................................57
      tomato......................................................................................................................................26
K
Kennels
      cashew....................................................................................................................................461
      macadamia..............................................................................................................................228
kettles, methods for measuring the performance of .................................................................60530
<table>
<thead>
<tr>
<th>Section</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labelling</td>
<td>268</td>
</tr>
<tr>
<td>code of practice (textile care)</td>
<td></td>
</tr>
<tr>
<td>nutrition, guidelines</td>
<td>624</td>
</tr>
<tr>
<td>prepacked food</td>
<td>19</td>
</tr>
<tr>
<td>prepacked goods</td>
<td>722</td>
</tr>
<tr>
<td>Laboratories, chemical</td>
<td>125</td>
</tr>
<tr>
<td>medical</td>
<td>15189</td>
</tr>
<tr>
<td>Laminated products</td>
<td></td>
</tr>
<tr>
<td>glass reinforced polyester</td>
<td>13</td>
</tr>
<tr>
<td>safety glass for vehicles</td>
<td>647-2</td>
</tr>
<tr>
<td>sheets GRP (profile and flat)</td>
<td>14</td>
</tr>
<tr>
<td>Lamps</td>
<td>60061-DB-3, 60061-DB-4</td>
</tr>
<tr>
<td>Caps and holders</td>
<td></td>
</tr>
<tr>
<td>Self-ballasted,</td>
<td></td>
</tr>
<tr>
<td>compact fluorescent lamps for general lighting purposes-specification</td>
<td>886</td>
</tr>
<tr>
<td>fluorescent lamps for general purposes-performance requirements</td>
<td>884</td>
</tr>
<tr>
<td>lamps for general lighting purposes-safety requirements</td>
<td>883</td>
</tr>
<tr>
<td>light emitting diode lamps for general lighting purposes –safety specification</td>
<td>887</td>
</tr>
<tr>
<td>light emitting diodes lamps for general lighting purposes performance requirements</td>
<td>882</td>
</tr>
<tr>
<td>Laundry soap</td>
<td>250</td>
</tr>
<tr>
<td>Lead-acid batteries, methods of tests</td>
<td>181</td>
</tr>
<tr>
<td>Lead acid – starter batteries – Code of practice for handling and operation</td>
<td>420</td>
</tr>
<tr>
<td>Lead acid batteries, sulphuric acid for use</td>
<td>813</td>
</tr>
<tr>
<td>Lead pencil, Specification</td>
<td>180</td>
</tr>
<tr>
<td>Leather, (see also footwear)</td>
<td></td>
</tr>
<tr>
<td>boots (heavy duty)</td>
<td>70</td>
</tr>
<tr>
<td>terms</td>
<td>311</td>
</tr>
<tr>
<td>Vegetable tanned outer sole, leather</td>
<td>526</td>
</tr>
<tr>
<td>Lights for motor vehicles</td>
<td></td>
</tr>
<tr>
<td>Incandescent lamps</td>
<td>642-1</td>
</tr>
<tr>
<td>Head lamps</td>
<td>642-2</td>
</tr>
<tr>
<td>Secondary lights</td>
<td>642-3</td>
</tr>
<tr>
<td>Lighting,</td>
<td></td>
</tr>
<tr>
<td>Protection against</td>
<td>62305-1, 62305-3</td>
</tr>
<tr>
<td>protection of building against</td>
<td></td>
</tr>
<tr>
<td>vocabulary</td>
<td>60050-845</td>
</tr>
<tr>
<td>Limes</td>
<td>913</td>
</tr>
<tr>
<td>hydrated lime for use in sugar processing-specification</td>
<td></td>
</tr>
</tbody>
</table>
for use on buildings.................................................................85-1
for water treatment, specification........................................91
Liming materials, agriculture..................................................531
methods of tests..................................................................92
Liners and fluting for corrugated board.......................................768
Lining for footwear................................................................315
Liquid hand dish washing, toilet soap........................................52
Liquid fuel cook stoves – Methods of tests..................................185
Liquid carbon – dioxide industrial..........................................211
Livestock feed, meat, meat meal & bone meal..........................417
Blood meal, specification.......................................................424
Bone meal, specification.......................................................423
Fish meal, specification.......................................................422
Loom state cotton duck..........................................................264
Luncheon meat.....................................................................807
Lubricants, industrial oils and related products (class l) – family h (hydraulic systems) – specifications for hydraulic .................................................................990
Lubricants, industrial oils and related products (class l) – family x (greases).................................................................991
Lubricants, industrial oils and related products (class l) – family c (gears)-part 1: specifications for lubricants for enclosed gear systems .................................................................992-1
Lubricants, industrial oils and related products (class l) – machine-tool lubricants-categories and specifications.................................................................993
Lubricants, industrial oils and related products (class l) – classification-part 1: farmily a (total loss system) .................................................................994
Lubricating oil used in steam or gas turbine(mineral)..............................989

M
Maize
flour.......................................................................................34
grain......................................................................................32
Macadamia kennels..............................................................228
Mahewu..................................................................................623
Management systems,
auditing, guidelines.............................................................19011
Environmental, Specification with guidance for use...........................14001
general guidelines on principles, systems and support techniques........14004
general principles................................................................14010
audit procedures – auditing of environmental management systems.................................14011
qualification criteria for environmental auditors.................................................................14012-1
general guidelines on principles and support techniques.................................14015
labels and declarations – general principles.................................................................14020

© 2017 Catalogue of Malawi standards
performance evaluation – guidelines.................................14031
performance evaluation (EPE).................................................14032
life cycle assessment principles and framework.........................14040
life cycle assessment coal and scope definition and inventory analysis........14041
life cycle assessment life cycle impact assessment..........................14042

quality management systems,

fundamentals and vocabulary.....................................................9000
general requirements for the competence of testing and calibration laboratories....17025
guidelines for complaints handling in organization.................................10002
guidelines for performance improvements...........................................9004
guidelines for quality management in projects......................................10006
guidelines for quality management systems documentation......................10013
guidelines for quality plans..........................................................10005
guidelines for training..................................................................10015
guidelines on the application of MS-ISO 9001:2000 for the food and drink industry15161
requirements for bodies providing audit and certification of management system 17021
requirements.................................................................9001

Manually operated air break switches..............................................8
Masonry Cement (without air entrainment agents)...............................414
Margarine.................................................................................225
Man-made fiber ropes..............................................................340
Mangoes-specification...............................................................1004
Mango juice..............................................................................297
Manhole covers, cast iron..........................................................317
Marmalades, jams and jellies.......................................................176
Matches, wooden safety............................................................251
test methods............................................................................252
Mayonnaise..............................................................................745
Meat burgers.............................................................................769
Meat, cooked cured chopped.......................................................808
luncheon.....................................................................................807
Meat grading – Code of practice..................................................206
Meat animals, ante mortem........................................................200
Medical laboratories – requirements..............................................15189
Methyldibromide insecticidal fumigant...........................................375
Methylated Spirit, specification....................................................368
Methylated Spirit, methods of test................................................370
Mild steel nails.........................................................................322
Milk carriers, industrial hygiene....................................................291
Milk, evaporated.......................................................................752
Milkfat products-specification......................................................1006
Milk, cows
- pasteurized .............................................................................................................. 74
- raw .......................................................................................................................... 73
- sweetened condensed ........................................................................................... 751

Milk, soya bean ....................................................................................................... 748

Milk and milk products
- microbiological examination .................................................................................. 292
- sampling
- chemical analysis .................................................................................................. 75-1
- microbiology analysis ............................................................................................ 75-2
- determination of titratable acidity ......................................................................... 196

Milk powder
- handling, Code of practice ..................................................................................... 549
- Milk UHT ................................................................................................................ 809
- specification ........................................................................................................... 633

Milking (dairy farming), Code of hygienic conditions ............................................. 111

Millet grains ............................................................................................................. 544

Mineral lubricating oil used in steam or gas turbines-specification ......................... 989

Mint, dried ............................................................................................................... 303

Mineral turpentine .................................................................................................. 378

Mineral waters
- Moisture content of coal,
  - holding capacity ................................................................................................ 871
  - samples intended for general analysis (vacuum-coal methods) ......................... 859
  - samples intended for general analysis ................................................................ 860

Mosquito coils
- specification .......................................................................................................... 468
- methods of test ...................................................................................................... 469

N

Nails, mild steel ........................................................................................................ 322

Napkins, cotton baby .............................................................................................. 270

Natural, latex rubber condoms ............................................................................. 307
- mineral waters ...................................................................................................... 560

Nectars, fruit .......................................................................................................... 665
- Guava ................................................................................................................... 298

Nets, fishing
- hanging of netting ................................................................................................. 137
- netting (basic terms) ............................................................................................ 135
tex system..................................................................................................................132
Noise..........................................................................................................................697
Noodles.......................................................................................................................798
Nutmeg.........................................................................................................................601
Nutrition claims.........................................................................................................625
Nutrition labeling.......................................................................................................624

O
Occupational health and safety practices.................................................................714
Office, Staplers..........................................................................................................727
Staples for office use..................................................................................................726
Oil and fats, edible......................................................................................................51
cotton seed..................................................................................................................79
groundnut....................................................................................................................77
methods of test...........................................................................................................56
rapeseed.......................................................................................................................80
soyabean, refined.........................................................................................................154
sunflower, refined........................................................................................................78
tung...............................................................................................................................10
Oil, vegetable
Jatropha.......................................................................................................................888
Oil gloss paint............................................................................................................388
Opaque beer.................................................................................................................208
Open wove bandages.................................................................................................336
Organic Products-General Standard.........................................................................815
Outlet adaptor............................................................................................................9

P
Packaging sacks – Description & Method of measurement
   Part 1 Empty Paper sacks........................................................................................100
   vocabulary..................................................................................................................99
   methods of sampling empty sacks for testing.........................................................522
Packages, transport....................................................................................................105
Packaging of dangerous goods - packaging and large packaging for road and rail transport..................................................................................................................720-2
Packaging, paper sacks, empty................................................................................100
Packaging, pictorial marking....................................................................................103
Paint(s)
aluminium finish........................................................................................................394
automotive..................................................................................................................383
bituminous..................................................................................................................386

© 2017 Catalogue of Malawi standards
decorative, oil gloss......................................................................................................................388
driers for paints and varnishes ...................................................................................................823
emulsion paint..............................................................................................................................280
enamel, high gloss.......................................................................................................................282
methods of test............................................................................................................................283
mineral solvent..........................................................................................................................396
new galvanized iron....................................................................................................................279
primer, metals............................................................................................................................287
removers.....................................................................................................................................398
road – marking..............................................................................................................................278
undercoat....................................................................................................................................393
wood primer.................................................................................................................................288
Pallets for materials handling -vocabulary..................................................................................1087
Pallets for materials handling –flat pallets
   Part 1: Test methods..................................................................................................................926-1
   Performance requirements and selection of tests......................................................................926-2
   Maximum working loads.........................................................................................................26-3
Paraffin, illuminating..................................................................................................................498
Papayas -specification..................................................................................................................1003
Paper clips...................................................................................................................................728
Paper punches (desk top types)..................................................................................................729
Paper sacks, vocabulary..............................................................................................................99
Passion fruit juice.......................................................................................................................296
Pasta products.............................................................................................................................224
Pasteurized cow’s milk..............................................................................................................74
Paraffin, illuminating..................................................................................................................498
Peas, pigeon..................................................................................................................................400
Peanut Butter Specification.........................................................................................................554
Pearl millet grain..........................................................................................................................544
Pens, ball point............................................................................................................................186
Pesticides
   general requirements.................................................................................................................120
   handling, storage and disposal.................................................................................................89
   safety procedures for disposal.................................................................................................675
Petrol, specification...................................................................................................................170
Petroleum jelly(Petrolatum)......................................................................................................108
Petroleum industry
   Above-ground non-pressurised horizontal cylindrical storage tanks for petroleum indus-
try....................................................................................................................................................113
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code of practice for the handling, storage, distribution and maintenance of liquefied petroleum gas (LPG) in domestic, commercial, and industrial installation</td>
<td>172-1</td>
</tr>
<tr>
<td>Electrical and other installations in the distribution and marketing sector</td>
<td>172-2</td>
</tr>
<tr>
<td>Installation of underground storage tanks, pumps/dispensers and pipe works at service stations and consumer installation-code of practice</td>
<td>172-3</td>
</tr>
<tr>
<td>Mobile filling stations for refillable LPG containers of capacity not exceeding 9 kg</td>
<td>236-10</td>
</tr>
<tr>
<td>Storage and distribution of petroleum products in the above-ground bulk installations</td>
<td>172-1</td>
</tr>
<tr>
<td>Terminology</td>
<td>667-1, 667-2</td>
</tr>
<tr>
<td>The fuelling of fork lift trucks and other LP gas operated vehicles</td>
<td>236-8</td>
</tr>
<tr>
<td>Underground non-pressurized horizontal storage tanks—manufacturing and testing</td>
<td>114</td>
</tr>
<tr>
<td>Petroleum products—Fuels (class F) Gas turbine fuels for industrial and marine application</td>
<td>986</td>
</tr>
<tr>
<td>Photovoltaic Analytical expression for daily solar profiles</td>
<td>61725</td>
</tr>
<tr>
<td>Characteristics of the utility interface</td>
<td>61727</td>
</tr>
<tr>
<td>Guidelines for measurement, data exchange and analysis</td>
<td>61724</td>
</tr>
<tr>
<td>Measurement principles for terrestrial photovoltaic solar devices</td>
<td>60904-3</td>
</tr>
<tr>
<td>Power conditioners</td>
<td>61683</td>
</tr>
<tr>
<td>Salt mist corrosion testing of</td>
<td>61701</td>
</tr>
<tr>
<td>Secondary cells and batteries for photovoltaic energy systems</td>
<td>61427</td>
</tr>
<tr>
<td>Susceptibility of a photovoltaic module</td>
<td>61721</td>
</tr>
<tr>
<td>Pig feed</td>
<td>240</td>
</tr>
<tr>
<td>Pigeon peas</td>
<td>400</td>
</tr>
<tr>
<td>Pineapple(s) canned</td>
<td>24</td>
</tr>
<tr>
<td>fresh</td>
<td>231</td>
</tr>
<tr>
<td>juice</td>
<td>57</td>
</tr>
<tr>
<td>Pipes, Asbestos—cement sewer and drain</td>
<td>629</td>
</tr>
<tr>
<td>Pipe(s), fittings, UPVC test methods</td>
<td>38</td>
</tr>
<tr>
<td>Pipes and fittings UPVC</td>
<td>4</td>
</tr>
<tr>
<td>drain and sewer, specification</td>
<td>3</td>
</tr>
<tr>
<td>drainage (above ground), specification</td>
<td>5</td>
</tr>
<tr>
<td>installation (code of practice)</td>
<td>7</td>
</tr>
<tr>
<td>Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply</td>
<td>617</td>
</tr>
<tr>
<td>pressure (cold water)</td>
<td>4</td>
</tr>
<tr>
<td>solvent cement</td>
<td>88</td>
</tr>
<tr>
<td>UPVC—Pipes and pipe fittings, methods of test</td>
<td>456</td>
</tr>
<tr>
<td>Plaster primer, alkali resistant latex type</td>
<td>389</td>
</tr>
<tr>
<td>Plastics piping systems for hot and cold water installations-polypropylene (pp</td>
<td></td>
</tr>
<tr>
<td>Category</td>
<td>Page</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Fittings</td>
<td>912-3</td>
</tr>
<tr>
<td>Fitness for purpose of the system</td>
<td>912-5</td>
</tr>
<tr>
<td>General</td>
<td>912-1</td>
</tr>
<tr>
<td>Guidance for the assessment of conformity</td>
<td>912-7</td>
</tr>
<tr>
<td>Pipes</td>
<td>912-2</td>
</tr>
<tr>
<td><strong>Plastics</strong></td>
<td></td>
</tr>
<tr>
<td>bags and flat bags</td>
<td>734</td>
</tr>
<tr>
<td>containers</td>
<td>20</td>
</tr>
<tr>
<td>disposal</td>
<td>713</td>
</tr>
<tr>
<td>film and sheeting – Determination of average thickness, length and width</td>
<td>735</td>
</tr>
<tr>
<td>shoes</td>
<td>109</td>
</tr>
<tr>
<td>Plough shares, single furrow animal drawn</td>
<td>110</td>
</tr>
<tr>
<td>Plugs (electric)</td>
<td>9</td>
</tr>
<tr>
<td>Plywood and composite boarders</td>
<td>492</td>
</tr>
<tr>
<td>Poles wooden for power transmission</td>
<td>429</td>
</tr>
<tr>
<td>Polish</td>
<td></td>
</tr>
<tr>
<td>Wax</td>
<td>367</td>
</tr>
<tr>
<td>wax floor</td>
<td>84</td>
</tr>
<tr>
<td>wax shoe</td>
<td>566</td>
</tr>
<tr>
<td>Polypropylene grain sacks</td>
<td>717</td>
</tr>
<tr>
<td>Polyester laminate products</td>
<td></td>
</tr>
<tr>
<td>glass reinforced</td>
<td>13</td>
</tr>
<tr>
<td>sheet, profile or flat</td>
<td>14</td>
</tr>
<tr>
<td>Polyurethane foam, specification and test methods</td>
<td>218</td>
</tr>
<tr>
<td>Polyvinyl acetate dispersion adhesives for wood</td>
<td>590</td>
</tr>
<tr>
<td>Pork and beef sausages</td>
<td>199</td>
</tr>
<tr>
<td>Portable domestic appliances</td>
<td>16</td>
</tr>
<tr>
<td>Potato</td>
<td></td>
</tr>
<tr>
<td>crisp</td>
<td>811</td>
</tr>
<tr>
<td>specification</td>
<td>879</td>
</tr>
<tr>
<td>Poultry</td>
<td></td>
</tr>
<tr>
<td>feeds</td>
<td>212</td>
</tr>
<tr>
<td>processing</td>
<td>546</td>
</tr>
<tr>
<td>Powder</td>
<td></td>
</tr>
<tr>
<td>Bleaching</td>
<td>575</td>
</tr>
<tr>
<td>synthetic detergent)</td>
<td>253</td>
</tr>
<tr>
<td>test methods</td>
<td>254</td>
</tr>
<tr>
<td>Powder, scouring</td>
<td>373</td>
</tr>
<tr>
<td>Powder curry</td>
<td>97</td>
</tr>
</tbody>
</table>
milk ......................................................................................................................519
Powder-distemper ..................................................................................................380
Power cord, electric .................................................................................................15
Power transformers
   Ability to withstand short circuit ...........................................................................60076-5
   Dry type transformers ...........................................................................................60076-11
   General .................................................................................................................60076-1
   Guide to the lightning impulse and switching impulse ........................................60076-4
Precast, concrete building blocks ............................................................................307
Prepacked foods, labeling ........................................................................................19
Preservatives, wood ................................................................................................384
Pressing irons, solid fuel ..........................................................................................156
Primary batteries
   General .................................................................................................................60086-1
   Physical and electrical specification .......................................................................60086-2
   Safety of batteries with aqueous electrolyte .........................................................60086-5
   Safety of lithium batteries ....................................................................................60086-4
   Watch batteries ....................................................................................................60086-3
Primary dry cells .......................................................................................................35
Principles for food import and export inspection and certification ..........................944
Processed fruits and vegetables, methods of test .....................................................23
Processing, poultry ..................................................................................................546
Processing units, food ..............................................................................................21
Protection of building against lighting ....................................................................310
Pulses, cereals, sampling milled products ...............................................................145
Pulses,
   certain pulses-specification .................................................................................1000
Pulses cereals,
   determination of ash ...........................................................................................149
   determination of hidden insect infestation, general principles .........................518-1
   determination of hidden insect infestation, rapid method ....................................518-4
   determination of hidden insect infestation, reference method .........................518-3
   determination of hidden insect infestation, sampling ............................................518-2
Pumps;
   Standard guide for performance evaluation of hydraulic fluid for piston pumps ....988
Punches, paper ...........................................................................................................729
Puree, tomato ..........................................................................................................25
Putty, Glazing (for wooden and metal window frames) .............................................616
<table>
<thead>
<tr>
<th>Q</th>
<th>Quality management systems</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>fundamentals and vocabulary..........................................................9000</td>
</tr>
<tr>
<td></td>
<td>requirements..................................................................................9001</td>
</tr>
<tr>
<td></td>
<td>guidelines for performance improvements........................................9004</td>
</tr>
<tr>
<td></td>
<td>Quick frozen blocks of fish fillet, minced fish flesh and mixtures of fillets and minced fish flesh specification..............................................................1246</td>
</tr>
<tr>
<td>R</td>
<td>Rapeseed oil....................................................................................80</td>
</tr>
<tr>
<td></td>
<td>Raisins............................................................................................753</td>
</tr>
<tr>
<td></td>
<td>Rammed earth structures-code of practice........................................917</td>
</tr>
<tr>
<td></td>
<td>Raw cow’s milk..............................................................................73</td>
</tr>
<tr>
<td></td>
<td>Raw hides and skins</td>
</tr>
<tr>
<td></td>
<td>guidelines for grading.................................................................290</td>
</tr>
<tr>
<td></td>
<td>terminology for defectives.............................................................293</td>
</tr>
<tr>
<td></td>
<td>rules for preservation.................................................................358</td>
</tr>
<tr>
<td></td>
<td>Raw groundnuts.............................................................................217</td>
</tr>
<tr>
<td></td>
<td>Raw macadamia kernels...................................................................228</td>
</tr>
<tr>
<td></td>
<td>Raw sugar.....................................................................................209</td>
</tr>
<tr>
<td></td>
<td>Reconditioned tyres .....................................................................529</td>
</tr>
<tr>
<td></td>
<td>Refined oil</td>
</tr>
<tr>
<td></td>
<td>cotton seed....................................................................................79</td>
</tr>
<tr>
<td></td>
<td>Soya bean.......................................................................................154</td>
</tr>
<tr>
<td></td>
<td>sunflower......................................................................................78</td>
</tr>
<tr>
<td></td>
<td>Renewable energy and hybrid systems for rural electrification,</td>
</tr>
<tr>
<td></td>
<td>battery management systems for stand-alone electrification systems..................889-8-1</td>
</tr>
<tr>
<td></td>
<td>From requirements to a range of electrification systems.........................889-2</td>
</tr>
<tr>
<td></td>
<td>General introduction to rural electrification........................................889-1</td>
</tr>
<tr>
<td></td>
<td>Generators.....................................................................................889-7</td>
</tr>
<tr>
<td></td>
<td>Integrated System - User Interface..................................................889-9-3</td>
</tr>
<tr>
<td></td>
<td>Integrated systems –user installation...............................................889-9-4</td>
</tr>
<tr>
<td></td>
<td>Micro grids......................................................................................889-9-2</td>
</tr>
<tr>
<td></td>
<td>Protection against electrical hazards...............................................889-5</td>
</tr>
<tr>
<td></td>
<td>Selection of batteries and battery management systems for stand-alone electrification systems</td>
</tr>
<tr>
<td></td>
<td>Selection of self-ballasted lamps (CFL) for rural electrification systems and recommendation household lighting equipment...............................889-12-1</td>
</tr>
<tr>
<td></td>
<td>specific case of automotive flooded led-acid batteries..........................889-8-1</td>
</tr>
<tr>
<td></td>
<td>Reinforcement of concrete steel for,</td>
</tr>
<tr>
<td></td>
<td>plain bars.......................................................................................785-1</td>
</tr>
<tr>
<td></td>
<td>ribbed bars.....................................................................................785-2</td>
</tr>
<tr>
<td></td>
<td>welded fabrics................................................................................785-3</td>
</tr>
<tr>
<td></td>
<td>Retro-reflective registration plates for motor vehicles Parts 1,2,3&amp; 4.................................639</td>
</tr>
<tr>
<td>Reusable rubber contraceptives diaphragm</td>
<td>.................................................................</td>
</tr>
<tr>
<td>Responsibility,</td>
<td></td>
</tr>
<tr>
<td>Social.........................................................</td>
<td>26000</td>
</tr>
<tr>
<td>requirements..................................................</td>
<td>700</td>
</tr>
<tr>
<td>Rice..............................................................</td>
<td>179</td>
</tr>
<tr>
<td>Roasted, ground coffee...................</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Road marking paints........................</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Road vehicles – inspection and testing of imported used motor vehicles</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Riga test.......................................................</td>
<td>856</td>
</tr>
<tr>
<td>Ropes and cordages........................</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Roofing paints..........................................</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Roofing sheets, galvanized iron.........</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Roofing sheets – fibre cement...........</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Roofing tiles, concrete...................</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Rubber boots, industrial safety........</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Rubber insulated cables</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Cords for application requiring high flexibility</td>
<td>.......................................................</td>
</tr>
<tr>
<td>General requirements..........................</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Heat resistant silicon insulated cable</td>
<td>...............................................................</td>
</tr>
<tr>
<td>ruhr dilatometer test........................</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Test methods..............................................</td>
<td>...............................................................</td>
</tr>
<tr>
<td>Rulers for general purpose................</td>
<td>...............................................................</td>
</tr>
</tbody>
</table>

S

Sacks
| method of measurement...................... | ............................................................... | 100 |
| polypropylene........................................ | ............................................................... | 717 |
| vocabulary............................................... | ............................................................... | 99 |
| Safety and health, occupational.......... | ............................................................... | 714 |
| Safety code, chemical laboratories........ | ............................................................... | 125 |
| Safety glass for vehicles.................. | ............................................................... | 647-1, 647-2 |
| Safety of electrical appliances.......... | ............................................................... | 17 |
| Safety of welding.................................... | ............................................................... | 552 |
| Safety rubber boots........................... | ............................................................... | 94 |
| Safety wood matches............................ | ............................................................... | 251 |
| specification............................................ | ............................................................... | |
| test methods............................................. | ............................................................... | 252 |
| Salt, edible.................................................. | ............................................................... | 188 |
| Sampling..................................................... | ............................................................... | |
|                                | 218 |

© 2017 Catalogue of Malawi standards
of chemical products for industrial use................................................................. 169
plans and procedures for inspection by attributes.............................................. 60410
Water quality .................................................................................................. 682-5

Sauce
chilli .................................................................................................................. 53
tomato .............................................................................................................. 27

Sausages, pork and beef................................................................................... 199

School chalk .................................................................................................. 187

Scales
beam .............................................................................................................. 773
counter .......................................................................................................... 774

Scouring powder .......................................................................................... 373

Sewage effluents .......................................................................................... 691

Sewer and drain pipe
UPVC .............................................................................................................. 3

Shampoo, hair ............................................................................................... 475

Sheets, galvanized roofing .......................................................................... 509

Sheets, fibre-cement roofing and cladding (corrugated and flat) .................... 627

Sheets, cotton bed ......................................................................................... 273

Shields, welding ............................................................................................ 106

Shoes
casual plastic .................................................................................................. 109
children’s ...................................................................................................... 313
men’s fashion ................................................................................................. 312

Shovel ............................................................................................................ 651

Silicate, sodium ............................................................................................... 670

Soda silicate grass products;
definitions and general physical and mechanical properties......................... 782-1
drawn sheet glass .......................................................................................... 782-4
patterned glass .............................................................................................. 782-5
polished wire glass ........................................................................................ 782-3

Silicon
Insulated cables .............................................................................................. 60245-3
Terrestrial ..................................................................................................... 711

Size designation of clothes
body measurement procedure ........................................................................ 333
infant garments .............................................................................................. 332
men’s and boy’s outerwear garments ............................................................. 330
women’s and girl’s outerwear garments ........................................................ 331
Skin, cleansers ........................................................................................................................................ 40
Skin and hides, raw
  guidelines for grading .......................................................................................................................... 290
  rules for preservation ........................................................................................................................... 358
  terminology of defects ....................................................................................................................... 293
Skin care products ................................................................................................................................ 334
Soap
  carbolic .............................................................................................................................................. 48
  laundry ............................................................................................................................................... 250
  liquid toilet soap ................................................................................................................................. 52
  toilet .................................................................................................................................................. 49
Soaps, methods of analysis .................................................................................................................... 60
Social responsibility, guidance ............................................................................................................ 26000
  requirements for combating child labour ....................................................................................... 700
Socket outlet adaptors .......................................................................................................................... 9
Soda, ammonium of ................................................................................................................................ 352
Soda silicate grass products;
  definitions and general physical and mechanical properties .......................................................... 782-1
  polished wire glass ............................................................................................................................ 782-3
  drawn sheet glass ............................................................................................................................... 782-4
  patterned glass .................................................................................................................................. 782-5
Sodium silicate ....................................................................................................................................... 670
Soft drinks,
  carbonated ......................................................................................................................................... 18
  methods of test .................................................................................................................................. 22
Softwood
  brandering and battens ...................................................................................................................... 496
  flooring boards ................................................................................................................................. 494
  furniture timber ................................................................................................................................. 502
  joinery timber ................................................................................................................................... 503
Soil blocks ............................................................................................................................................... 777
Soil conditioners - Vocabulary .......................................................................................................... 167
Solid fuel cook stoves (Type I) ........................................................................................................... 158
Solid fuel cook stoves (Type II) ......................................................................................................... 155
Solid insulating materials .................................................................................................................. 60167
Solar photovoltaic (PV) wind hybrid system ...................................................................................... 779
Solar photovoltaic energy systems, terms and symbols .................................................................... 61836
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid waste, handling, transportation and disposal</td>
<td>59</td>
</tr>
<tr>
<td>Solar water heaters</td>
<td></td>
</tr>
<tr>
<td>- code of practice</td>
<td>759</td>
</tr>
<tr>
<td>- specification</td>
<td>62</td>
</tr>
<tr>
<td>Solvent cement, UPVC pipe fitting</td>
<td>88</td>
</tr>
<tr>
<td>Sorghum</td>
<td></td>
</tr>
<tr>
<td>- determination of tannin content</td>
<td>611</td>
</tr>
<tr>
<td>- Flour</td>
<td>938</td>
</tr>
<tr>
<td>- grains (specification)</td>
<td>542</td>
</tr>
<tr>
<td>Sound level meter</td>
<td></td>
</tr>
<tr>
<td>- Specification</td>
<td>61672-1</td>
</tr>
<tr>
<td>- Pattern evaluation tests</td>
<td>61672-2</td>
</tr>
<tr>
<td>Soya bean oil, refined</td>
<td>154</td>
</tr>
<tr>
<td>Soya beans</td>
<td>244</td>
</tr>
<tr>
<td>Soya bean milk and drink</td>
<td>748</td>
</tr>
<tr>
<td>Spades and Shovels</td>
<td>651</td>
</tr>
<tr>
<td>Spectacles, welding</td>
<td>106</td>
</tr>
<tr>
<td>Spirits, alcoholic beverages</td>
<td>210</td>
</tr>
<tr>
<td>Spirits, methylated</td>
<td></td>
</tr>
<tr>
<td>- methods of test</td>
<td>370</td>
</tr>
<tr>
<td>- specification</td>
<td>368</td>
</tr>
<tr>
<td>Spices and condiments</td>
<td></td>
</tr>
<tr>
<td>- ash determination</td>
<td>141</td>
</tr>
<tr>
<td>- botanical nomenclature</td>
<td>1068</td>
</tr>
<tr>
<td>- determination of non-volatile ether extract</td>
<td>922</td>
</tr>
<tr>
<td>- filth determination</td>
<td>142</td>
</tr>
<tr>
<td>- sampling</td>
<td>140</td>
</tr>
<tr>
<td>Squashes, fruit</td>
<td>177</td>
</tr>
<tr>
<td>Stabilised soil blocks</td>
<td>777</td>
</tr>
<tr>
<td>Staples for Office Use</td>
<td>726</td>
</tr>
<tr>
<td>Standard guide for performance evaluation of hydraulic fluids for piston pumps</td>
<td>988</td>
</tr>
<tr>
<td>Staplers</td>
<td>727</td>
</tr>
<tr>
<td>Starch and starch products</td>
<td></td>
</tr>
<tr>
<td>- methods of sampling</td>
<td>708</td>
</tr>
<tr>
<td>- Methods of test</td>
<td>707</td>
</tr>
<tr>
<td>Steel bars</td>
<td></td>
</tr>
<tr>
<td>- Dimension of flat bars</td>
<td>775-3</td>
</tr>
<tr>
<td>- Dimensions of round bars</td>
<td>775-1</td>
</tr>
</tbody>
</table>
Dimensions of square bars ................................................................................................. 775-2
Tolerances of round, square and flat bars ........................................................................ 775-4
Steel bars and wires, certification scheme ........................................................................ 10144
Steel for the reinforcement of concrete
  cold reduced steel wire for reinforcement of concrete and the manufacture of welded fabric........ 10544
  plain bars ........................................................................................................................... 785-1
  ribbed bars ....................................................................................................................... 785-2
  welded fabric .................................................................................................................... 785-3
Steel nails .................................................................................................................................. 322
Steel names based on letter symbols .................................................................................. 4949
Steel wire fences .................................................................................................................. 321
Structural use of steel
  Limit-state design of hot rolled steelwork ........................................................................ 793-1
Structural use of concrete
  Design .................................................................................................................................. 794-1
Structure timber – machine strength grading–basic principles ........................................... 846
Sugar,
  confectionery, Specification .............................................................................................. 227
  hydrated lime for use in sugar processing–specification .................................................. 913
  raw ...................................................................................................................................... 209
  white .................................................................................................................................... 202
  icing sugar–specification ...................................................................................................... 205
Sulphuric acid .......................................................................................................................... 813
Sunflower oil, refined ............................................................................................................. 78
Sunflower seeds for the manufacture of oil–specification .................................................... 415
Sweetened condensed milk .................................................................................................... 751
Switches, air break .................................................................................................................. 8
Synthetic detergents, house hold use .................................................................................... 253
Synthetic sewing threads, industrial fibres ........................................................................... 261
T
Tanks,
  Above-ground storage tanks for petroleum products ....................................................... 840
Tea, black
  methods of tests .................................................................................................................. 412
  specification ........................................................................................................................ 43
Testing and calibrating laboratory .......................................................................................... 17025
Textiles fibres–determination of breaking force and elongation at break of individual fibres ... 974
Textile fibres–determination of linear density–gravimetric method and vibroscope method .... 975
Thobwa powder ........................................................................................................................................ 519

Threads(s)
  for footwear ........................................................................................................................................... 316
  for footwear, methods of test .................................................................................................................. 357
  sewing, industrial synthetic fibre ............................................................................................................ 261

Thyme, whole ......................................................................................................................................... 305

Tiles, cement roofing ................................................................................................................................. 161

Tiles, concrete floor and wall ..................................................................................................................... 309

Timber structures-glued limited timber-test methods for determination of physical and mechanical properties ........................................................................................................................................... 914

Timber, hardwood furniture ..................................................................................................................... 493
  mechanical stress grading of softwood ................................................................................................... 602

Preservatives ............................................................................................................................................. 597

  preservative treated timber ..................................................................................................................... 37

  soft joinery ............................................................................................................................................. 503

  stress graded, softwood general structure ............................................................................................. 49

  broadleaved sawn timber-nominal sizes (comesa harmonized) ................................................................. 929

  sawn timber-test methods-determination of ultimate strength in shearing parallel to grain ............... 930

Tissue paper ............................................................................................................................................. 569-2

Transportation of
  dangerous drugs-Intermediate bulk containers for road and rail transport ........................................... 736
  dangerous Goods Designed, Construction, Testing ............................................................................ 849
  dangerous goods operational requirements for road vehicles ............................................................... 847
  dangerous goods, packaging and large packaging .............................................................................. 720-2

Transportation of dangerous goods-emergency information systems
  emergency information system for rail transport ................................................................................... 845-2
  emergency response guides ................................................................................................................... 845-3

Tobacco and Tobacco products- Methods of test .................................................................................. 787

Toilet paper .............................................................................................................................................. 569-2

Toilet soap ................................................................................................................................................ 49

Tomato(es) general ................................................................................................................................. 230
  puree ..................................................................................................................................................... 25
  sauce ..................................................................................................................................................... 27

Tooth paste .............................................................................................................................................. 112

Towels, cotton .......................................................................................................................................... 269

Turmeric, whole and ground .................................................................................................................... 152

Turpentine mineral ................................................................................................................................. 378

Tyres
  pneumatic, for passenger cars and luggage trailers ............................................................................... 659
  pneumatics, for commercial vehicles and trailers ................................................................................. 660
production of reconditioned ................................................................................................................529

U
UHT Milk...........................................................................................................................................809
Unleaded petrol.................................................................................................................................170
UPVC pipes (see pipes and fittings)
Urea, fertilizer.................................................................................................................................351
Use of dairy terms..........................................................................................................................744
User interface.................................................................................................................................889-12-1

V
Varnishes, interior for
  wood floors....................................................................................................................................392
  wood surfaces..............................................................................................................................391
Vegetable, ghee...............................................................................................................................63
  mixed animal..............................................................................................................................64
  vegetable oil, jatropha straight.................................................................................................888
Vegetable, processed fruits.............................................................................................................23
Vehicles
  road vehicles –inspection and testing of imported used motor vehicles.................................822
Vinegar
  artificial.........................................................................................................................................11
  test methods...............................................................................................................................12
Volatile matter, determination of hard coal coke...........................................................................878

W
Wastes
  disposal sites, guidelines for design..........................................................................................730
  disposal sites, safe management (solid) ....................................................................................731
  handling, transfer transportation and disposal (solid)...............................................................59
  health care facilities...................................................................................................................615
Water
  bottled drinking waters other than natural mineral water.........................................................699
  borehole and shallow water.......................................................................................................733
  control and surveillance in public supply ................................................................................678
  drinking......................................................................................................................................214
  Natural mineral water.............................................................................................................560
  Natural mineral water , code of practice..................................................................................701
Water, sampling
Guidance on the preservation and handling of water samples ..............................................682-3
Guidance on sampling of
biotesting of samples.................................................................682-16
bottom sediments ..............................................................................682-12
drinking water distributed by tankers or means other than distribution pipes ..........682-21
from lakes, natural and man-made ......................................................682-4
from treated waters and piped distribution systems ...............................682-5
groundwaters ....................................................................................682-11
marine sediments ...............................................................................682-19
river and streams ...............................................................................682-6
sludge’s from sewage and water treatment work ......................................682-13
suspended sediments ..........................................................................682-17
wet deposition .....................................................................................682-8
Wax polish .........................................................................................367
Wax floor polish ..................................................................................84
Welding helmets, shields and goggles and welding spectacles .........................106
Welding, safety ....................................................................................552
Wheat
flour ........................................................................................................30
grain specification ...............................................................................55
determination of wet gluten content by manual method ..............................150-1
determination of wet gluten content by mechanical means .........................150-2
determination of dry gluten from wet gluten by an oven drying method ..........150-3
determination of dry gluten from wet gluten by a rapid drying method ..........150-4
Wheat protein products including wheat gluen-specification ..................................543
White sugar ..........................................................................................202
Whole and decorticated pear millet grain .........................................................544
Windows and doors ...............................................................................320
Wine, country .........................................................................................178
Wood
Adhesives -terminology and classification ......................................................36
charcoal and charcoal briquettes for household use - requirements and test methods ..........858
wood-determination of volumetric swelling ..................................................921
wood-sampling methods and general requirements for physical and mechanical tests ........927
wood-
determination of volumetric shrinkages...........................................................................................................928
preservatives.........................................................................................................................................................384
preserving mixture of creosote and waxy oil ........................................................................................................593
Wood matches
specification.........................................................................................................................................................251
methods of test.......................................................................................................................................................252
Wooden ceiling, paneling boards .........................................................................................................................488

Y
Yoghurts
Flavoured.............................................................................................................................................................191
Natural....................................................................................................................................................................191
Sweetened..............................................................................................................................................................191

Z
Zearalenone content, qualitative determination of .................................................................................................511
Zinc, coated wire (fencing).....................................................................................................................................321