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Printed in Gaborone
MISSION STATEMENT

Our mission is:

To establish and promote national standards in order to enhance trade, benefit business and protect consumers and the environment.

Vision Statement

To be recognized for excellence in standardization services.

BOBS Values

- Innovation
- Diligence
- Transparency
- Team Spirit
- Botho
The standards published by BOBS are subject to periodical review and revision. The reader is therefore advised to contact the Information Centre for the latest version of the standard.
About Botswana Bureau of Standards

Introduction
The Botswana Bureau of Standards catalogue reflects all BOS standards that have been printed. The catalogue is reviewed twice a year to reflect the new standards that would have been published in between.

Background
Following the adoption of the Standards Act by the Botswana Parliament in 1995, the Botswana Bureau of Standards (BOBS) became a Parastatal in April 1997 as envisaged in the Act. A twelve (12) member Standards Council heads the organization. BOBS is the official body responsible for all issues related to standardization and quality assurance at the national level. BOBS is also a full member of the International Organization for Standardization (ISO), the national contact point for all Southern African Development Community (SADC) programmes related to standardization and quality assurance and the national Enquiry Point for standards regulations under the World Trade Organization Technical Barriers to Trade Agreement (WTO/TBT).

BOBS was formed with the primary objectives of formulating Botswana standards and coordinating quality assurance activities in Botswana, with the mission to improve the quality of life of the citizens of Botswana. This is done through the following departments: Standards, Regulatory Compliance, Commercial Enterprise, and Corporate Services.

Information Centre
BOBS Information Centre is a depository of technical and technological information. The Centre is an international reference point for information about standards, technical regulations and certification systems in Botswana.

The range of standards available at the Centre includes, Botswana, regional and international standards. These standards are not available on loan, but can be used by anyone for reference purposes in the centre. The other alternative is of course to buy and details are found in the next section (How to place an order)
How to use the catalogue

Botswana standards are arranged in numerical order and by subject with an alphabetical subject index.

Sample entry

(a) (b)

BOS ISO 9001: 2015

(c) **Quality management systems: Requirements**

Requirements for a quality management system where an organization needs to demonstrate its ability to provide products that fulfil customer and applicable regulatory requirements and aims to enhance customer satisfaction.

ICS: 03.120.10  Price code: 17  Pages: 44

(e) (f) (g)

a) Code of the standards  b) Year of publication
c) Title  d) Scope
e) Classification number for the standard  f) Price code
g) Number of pages

How to place your order

Botswana Standards (BOS) are available at our Information Centre.

(a) **Customers from within Botswana**

Clients outside Gaborone may fax or mail their orders. Always quote the standard number as shown in the catalogue and/or quotation to avoid making mistakes.

Payment is by cash or company cheque in (Pula). Money can be deposited into BOBS bank account directly and proof of payment faxed or sent by email. The account number is availed upon request.

(b) **Customers outside Botswana**

Botswana Standards may be obtained through respective countries' national standards bodies. Payment is by bank drafts in US Dollars payable to Botswana Bureau of Standards.
For enquiries please contact:

Information Centre
Botswana Bureau of Standards
Private Bag BO 48
Gaborone

Tel: +267 390 3200
Fax: +267 390 3120
Toll free: 0 800 600 900
Email: info@hq.bobstandards.bw

Price Table
The prices for Botswana Standards are subject to change without notice.

**PRICES FOR BOTSWANA STANDARDS**

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<tr>
<th>CODE</th>
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<td>AFD</td>
<td>Agriculture and Food Division</td>
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<tr>
<td>ASTM</td>
<td>American Society for Testing and Materials</td>
</tr>
<tr>
<td>BCD</td>
<td>Building and Construction Division</td>
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<tr>
<td>BOBS</td>
<td>Botswana Bureau of Standards</td>
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<td>BOS</td>
<td>Botswana Standard</td>
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<td>BWP</td>
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<td>GPD</td>
<td>General Purpose Division</td>
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<td>SABS</td>
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<td>01</td>
<td>Generalities. Terminology. Standardization. Documentation</td>
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<td>97</td>
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Catalogue

Botswana standards listed in numerical order

**BOS 1: 2008  2nd ed.**  Water taps (metallic)
Requirements for three 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.
ICS: 23.040.40  Price code: 12  Pages: 24

Requirements for design and installation of photovoltaic energy systems on buildings such as Domestic, school, office and industrial buildings, whose total power does not exceed 10 000 watt peak.
ICS: 27.160  Price code: 16  Pages: 36

**BOS 3-1: 2002**  The handling, storage & distribution of liquefied petroleum gas in domestic, commercial & industrial installations – Part 1: Liquefied petroleum gas installations involving gas storage containers of individual water capacity not exceeding 500 l & a combined water capacity not exceeding 3 000 l per installation
This part of Botswana Standard gives recommendations of the materials, the methods of construction and installation of equipment used in the handling, storage or distribution of liquefied petroleum gas in domestic, commercial and industrial installations that involve gas storage containers of individual water capacity not exceeding 500 l and of a combined water capacity not exceeding 3 000 l. It also gives recommendations regarding the installation of appliances, piping, fittings and other components. It covers the maintenance, inspection and testing of the various components of equipment. It does not cover any installation to caravans or mobile homes.
ICS: 23.020.30  Price code: 19  Pages: 52

**BOS 3-2:2017**  The handling, storage, distribution and maintenance of liquefied petroleum gas in domestic, commercial and industrial installations. Part 2: Installation of LPG systems in mobile units, including but not limited to caravans, motor homes, park homes and mobile kitchens
ICS: 75.200  Price code: 16  Pages: 40

**BOS 3-3: 2011**  The handling, storage and distribution and maintenance of liquefied petroleum gas in domestic, commercial and industrial installations – Part 3: Liquefied petroleum gas (LPG) installations involving storage vessels of individual water capacity exceeding 500 l – Specification
This part of Botswana Standard specifies requirements for the layout, design and installation of liquefied petroleum gas equipment and of storage vessels of individual water capacity exceeding 500 l and associated vaporizers, pipe work and fittings up the outlet of the first pressure reduction stage in the line. Recommendations are also given in regard to the fitting of automatic and other devices (operative in the event of physical damage to the installation) for the purpose of ensuring maximum security, for the storage of the gas from a design point of view, and for limiting the escape of liquid through normal pressure-relief fittings.

It also covers provisions for underground and above ground liquefied petroleum gas (LPG) storage tanks and associated equipment such as pumps, dispensers and pipework at service stations, container filling sites and consumer installations.

It also covers dedicated LPG dispensing stations.

It does not cover refrigerated LPG storage.

**Standards catalogue  Updated: June 2018**  13
BOS 3-4: 2005 The handling, storage & distribution of liquefied petroleum gas in domestic, commercial & industrial installations - Part 4: Transportation of LPG in bulk by road – Code of practice
This part of the code of practice contains recommendations for the design, construction, inspection, fittings and filling ratio of tanks used in transportation of LPG in bulk by road, the design of vehicles and ancillary equipment, and operating practice.

BOS 3 – 7: 2011 The handling, storage, distribution and maintenance of liquefied petroleum gas in domestic, commercial and industrial installations - Part 7: Storage and filling sites for refillable liquefied petroleum gas (LPG) containers of capacity not exceeding 9kg and the storage of individual gas containers not exceeding 48kg – Code of practice
This part of BOS 3 specifies the minimum requirements for the location and installation of and operations at the storage and filling sites for refillable liquefied petroleum gas (LPG) containers of capacity not exceeding 9kg and the storage of individual gas containers of capacity not exceeding 48kg. It identifies safe methods of filling and storing refillable containers and makes recommendations towards safe working procedures that cover all aspects of the storage and filling of refillable containers.

This standard also covers the storage of non-refillable containers.

BOS 4: 2012 2nd ed. Tomato – Grading requirements
This Botswana Standard applies to fresh tomatoes of varieties “or cultivars” grown from *Lycopersicon esculentum Mill*, which are for direct human consumption and excludes tomatoes for industrial processing. It is intended to define the quality attributes of fresh tomato after harvesting and to grade them according to the different quality levels. It also covers aspects of pesticide residue limits and post-harvest activities, all intended for marketing purposes.

BOS 5: 2009 2nd ed. See page 109

BOS 6-1: 2016 Symbolic safety signs – Part 1: Standard signs and general requirements
Requirements for standard ordinary non-reflective symbolic safety signs, including signs applied on mirrors or on vinyl sheets (decals). The standard also specifies general requirements applicable to self-luminous (radio-luminescent), internal illuminated, retro-reflective and photo-luminescent symbolic safety signs (complete with their backing sheets, where applicable).

This standard does not cover road signs.

BOS 8 – 1: 2008 see page 109

This Botswana Standard specifies the basic requirements for ostrich feeds
BOS 9:2014 General requirements for labelling and presentation of pre-packaged products
Specifies requirements for providing information regarding pre-packaged products. It sets rules of a general nature applicable to all pre-packaged products put on the market.

It is applicable to pre-packaged products to be delivered as such to the ultimate consumer, but excludes foods, feeds, tobacco and pharmaceutical products. It also addresses some aspects relating to presentation of pre-packaged products.

This standards prohibits the use of information that would mislead the purchaser.

Other legislation might exist for labelling requirements for reasons of health, safety or tax, or for other purposes such as date limit for sale or use, and storage temperature; however, such labelling requirements (including those specified in applicable product standards) should be taken into account as appropriate.

ICS: 55.020 Price code: 6 Pages: 12

BOS 11: 2000 Paints and varnishes – Undercoats for paints
Requirements for two grades of undercoat for use under air-drying paints.

ICS: 87.040 Price code: 8 Pages: 16

This Botswana Standard specifies the requirements for conventional solvent-borne paints suitable for marking traffic bearing bituminous or concrete road surfaces, and makes provision for white, yellow and other colours.

Note: Paints applied over bituminous screeds less than three months old or over concrete surfaces less than one month old are regarded as temporary markings with an expected service life or less than six months.

ICS: 93.080.30 Price code: 12 Pages: 24

Solar heating systems for domestic hot water which use flat plate collectors to directly or indirectly heat water.

ICS: 27.160 Price code: 13 Pages: 28

Solar heating systems for domestic hot water in which the solar collector also functions as a heat (water) storage device.

ICS: 27.160 Price code: 8 Pages: 16

BOS 14: 2000 Penetration grade bitumen
Four penetration grades of bitumen suitable for road construction and similar purposes

ICS: 75.140 Price code: 6 Pages: 12

BOS 15: 2000 Semi-flexible vinyl tiles
Smooth-surfaced semi-flexible vinyl floor tiles of six types based on tile thickness.

ICS 75.140 Price code: 12 Pages: 24
BOS 16: 2010 2nd ed. Metal roofing tiles - Specification
This standard covers the requirements for metal roofing tiles (coated or uncoated) supplied in the form of carbon steel sheets, aluminium alloy sheets or stainless steel sheets (each comprising a series of simulated tile units), and for trim sections (of the same materials) designed for use in conjunction with tile units of the same material and appropriate profile.
ICS: 77.140.50; 77.150.10; 91.06.20 Price code: 10 Pages: 20

BOS 17: 2000 Cutback bitumen
Requirements for medium curing (ML) cutback for road construction and similar purposes
ICS: 75.140 Price code: 10 Pages: 20

BOS 18: 2000 Cationic bitumen road emulsions
Requirements for three types (of the appropriate grade(s) given in table 1) of cationic bitumen road emulsions suitable for the preparation and treatment of road and other surfaces carrying wheeled and foot traffic.
ICS: 75.140 Price code: 8 Pages: 16

BOS 19: 2000 Stationery - Ball point pens
Requirements for single – cartridge ballpoint pens, replacement refills and direct-fill ball point pens, which have black, blue, green or red inks.
ICS: 97.180 Price code: 13 Pages: 28

BOS 20: 2000 Paints and vanishes – Primers for wood for interior and exterior use
Covers primers for wood for interior and exterior use.
ICS: 87.040 Price code: 8 Pages: 16

BOS 21: 2000 Paints and vanishes – Decorative high gloss enamel paint for interior and exterior use
Covers the following types of ready mixed decorative high gloss alkyd base enamel paint for interior and exterior use as a finishing coat on metal, wood, sealed plaster walls and concrete surfaces, composition board, and similar materials that have been primed or painted previously.
ICS: 87.040 Price code: 13 Pages: 28

BOS 22: 2000 Paints and vanishes – Bituminous aluminium paint
Covers one type of bituminous aluminium paid for interior and exterior use on primed metal, masonry asbestos cement, and wood surfaces.
ICS: 87.040 Price code: 10 Pages: 20

BOS 23: 2000 Paints and vanishes – Finishing paint aluminium type
Covers the following grades of aluminium paint for use as a finishing coat on primed surfaces for interior and exterior exposure.
ICS: 87.040 Price code: 12 Pages: 24

BOS 24: 2009 Concrete roofing tiles - Specification
The Botswana Standard specifies the requirements for concrete roofing tiles, limited to those described in the text, for assembly into pitched roof coverings.
ICS: 91.100.30 Price code: 12 Pages: 24
BOS 25: 2008 2nd ed. see page 109

BOS 26: 2009 2nd ed. see page 109

BOS 27: 2000  Concrete masonry units
Precast solid and precast hollow concrete masonry units for use in walling.
ICS: 91.100.30  Price code: 12  Pages: 24

BOS 28: 2016  Burnt clay masonry units
This standard covers burnt clay masonry units for use in masonry walling
ICS: 91.100.20  Price code: 13  Pages: 28

BOS 29: 2016  Concrete paving blocks
Covers blocks made from concrete, which are used for the construction of paved surfaces.
ICS: 91.100.30; 93.080.20  Price code: 12  Pages: 24

BOS 30: 2000  Burnt clay paving units
Specifies the characteristics of burnt clay paving units.
ICS: 91.100.15; 91.100.20; 93.100.20  Price code: 8  Pages: 16

Specifies the quality of acceptable drinking water, defined in terms of microbiological, organoleptic and chemical determinants.
Water that complies with this Botswana standard is deemed to present an acceptable health risk for lifetime consumption.
ICS: 13.060.20  Price code: 8  Pages: 16

BOS 33: 2000  Anionic bitumen road emulsions
Requirements for stable-mix type grade 60 anionic bitumen road emulsion suitable for the preparation and treatment of road and other surfaces carrying wheeled and foot traffic.
ICS: 75.140  Price code: 8  Pages: 16

BOS 34: 2009  Flexible vinyl flooring – Specification
This Botswana Standard specifies the characteristics of smooth-surfaced flexible vinyl flooring, in tile or sheeting form. The flooring may be marbled or mottled throughout its thickness.
ICS: 75.140  Price code: 12  Pages: 24

BOS 35: 2000  Fibre concrete roofing tiles
Requirements for fibre concrete roofing tiles. Also specifies the quality of raw materials, dimensional requirements and performance characteristics of the finished tiles.
ICS: 91.100.30  Price code: 12  Pages: 24

This Botswana Standard covers windows, casement doors and sidelights, and fanlights fabricated from hot rolled mild steel sections, complete with fittings and ancillary components.
ICS: 91.060.50  Price code: 18  Pages: 48
BOS 38: 2001  Water quality – Determination of colour
Specifies three methods for examination and determination of colour: by visually observing a water sample in a bottle.
ICS: 13.060.50  Price code: 6  Pages: 12

BOS 40-1: 2001 see page 109

BOS 41-1: 2001  13 A plugs, socket-outlets, adaptors and connection units – Part 1: Rewirable and non-rewirable 13 A fused plugs
Specifies requirements for 13 A fused plugs having insulating sleeves on line and neutral pins, for household, commercial and light industrial purposes, with particular reference to safety in normal use.
ICS: 29.120.20  Price code: 21  Pages: 64

Requirements for a 13 A switched and unswitched shuttered socket – outlets for household, commercial and light industrial purposes, with particular reference to safety in normal use.
ICS: 29.120.30  Price code: 20  Pages: 60

Requirements for adaptors having insulating sleeves on the line and neutral plug pins and suitable for use with socket-outlets complying with BOS 41: part 2.
ICS: 29.120.30  Price code: 22  Pages: 80

This part of BOS 41 specifies requirements for 13 A fused connection units for household, commercial and light industrial purposes, with particular reference to safety in normal use. The connection units are suitable for the connection of appliances, in a.c. circuits only, operating at voltages not exceeding 250 V r.m.s. at 50 Hz.
ICS: 29.120.30  Price code: 19  Pages: 52

BOS 42: 2001  Masonry walling – Code of practice
Guidance on the correct selection and use of materials in the construction of masonry walling in general situations.
ICS: 91.060.10  Price code: 22  Pages: 70

BOS 43: 2011 2nd ed.  Onions – Grading requirements
This Botswana Standard specifies requirements for the grading of onions (Allium cepa L.), varieties (cultivars) which are for direct consumption. This standard defines the quality attributes of onions after harvesting and grades them according to the different sizes and quality levels. It also covers aspects of pesticides residue limits, sampling, inspection, packaging and labelling. It does not cover onions for industrial processing.
ICS: 67.080.20  Price code: 6  Pages: 12

BOS 45: 2001  Paints and varnishes
Covers one type of calcium plumbate primer with an alkyd base.
ICS: 87.040  Price code: 10  Pages: 20

BOS 47: 2001  Paint and varnishes – Roof paints
Covers two types of roof paints for use on treated or weathered galvanized iron roofs.
ICS: 87.040  Price code: 10  Pages: 20

Standards catalogue  Updated: June 2018  18
This Botswana Standard defines the grading requirements that will be used to assess fully serviced hotels in Botswana.
ICS: 03.080.30
Price Code: 14
Pages: 32

This Botswana Standard defines the grading requirements that will be used to assess selected service hotels in Botswana
ICS: 03.080.30
Price Code: 13
Pages: 28

This Botswana Standard defines the grading requirements that will be used to assess game lodges and tented camps in Botswana
ICS: 03.080.30
Price Code: 16
Pages: 36

This Botswana Standard defines the grading requirements that will be used to assess bed and breakfast establishments in Botswana
ICS: 03.080.30
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This Botswana Standard defines the grading requirements that will be used to assess guesthouses in Botswana
ICS: 03.080.30
Price Code: 14
Pages: 32

This Botswana Standard defines the grading requirements that will be used to assess self-catering establishments in Botswana
ICS: 03.080.30
Price Code: 16
Pages: 36

BOS 50-7:2016 Hotels and related establishments – Grading requirements – Part 7: Remote camping grounds – Specification
Defines grading requirements for assessing remote camping grounds.
ICS: 03.200; 97.200.30
Price code: 10
Pages: 20

Defines grading requirements for assessing urban camping grounds.
ICS: 03.200; 97.200.30
Price code: 10
Pages: 20

Defines grading requirements for assessing wilderness camping grounds.
ICS: 03.200; 97.200.30
Price code: 4
Pages: 8

Standards catalogue Updated: June 2018
Defines grading requirements for assessing participation tented mobile safaris that combine active and participation safaris.
ICS: 03.200; 97.200.30  Price code: 10  Pages: 20

Defines grading requirements for assessing non-participation tented mobile safaris, also referred to as fully serviced safaris.
ICS: 03.200; 97.200.30  Price code: 12  Pages: 24

BOS 51: 2003  Electrical installations in buildings – Code of practice
Covers the design, selection, erection, inspection and testing of electrical installations.
ICS: 91.140.50  Price code: 6  Pages: 12

BOS 54: 2002  Domestic solar heating systems for hot water – On site test method – Thermal performance
Specifies an on-site test method for the indication of thermal performance of the installed domestic solar water heating systems.
ICS: 27.160  Price code: 6  Pages: 12

Covers the examination and testing for roadworthiness of all vehicles used on public roads. It has to be used in conjunction with the Road Traffic Act, 1975 and its regulations.
ICS: 43.020  Price code: 20  Pages: 56

BOS 58: 2011 2nd ed.  Headed cabbage – Grading requirements
This Botswana Standard specifies requirements for common headed cabbages of cultivars grown from *Brassica oleracea var. Capitata* L. (including red cabbages) to be supplied fresh to the consumer. It also covers post-harvest activities all intended for marketing purposes. It does not cover headed cabbages for industrial processing.
ICS: 67.080.20  Price code: 6  Pages: 12

BOS 59: 2011  Potatoes – Grading requirements
This Botswana Standard specifies grading requirements for potatoes of cultivars grown from *Solanum tuberosum* L. To be supplied fresh to the consumers. The standard also covers post-harvest activities all intended for marketing purposes. It does not cover potatoes for industrial processing.
ICS: 67.080.20  Price code: 6  Pages: 12

BOS 60: 2009  Road vehicles – Leaf spring – Specification
This Botswana Standard covers general requirements for materials, leaf spring assembly and individual spring leaves for road vehicles.
ICS: 77.140.25  Price code: 10  Pages: 20

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BOS 73: 2011 2nd ed.  Concrete non-pressure pipes – Specification
This Botswana Standard specifies requirements for two types of concrete non-pressure cylindrical pipes, one (SC) intended mainly for storm water-drain and culvert purposes and the other (SI) intended mainly for sewer and irrigation purposes.

ICS: 23.040.50  Price code: 12  Pages: 24

This Botswana Standard specifies requirements for precast reinforced concrete culverts of different strength classes, according to the span of culvert intended primarily for conveying water that is not under pressure.

ICS: 91.100.30  Price code: 12  Pages: 24

This Botswana Standard specifies requirements for reinforced concrete cylindrical pipes (other than prestressed pipes) for use under pressure.

ICS: 23.040.50  Price code: 12  Pages: 24

BOS 76: 2007 2nd ed.  Precast concrete manhole sections and components - Specification
This Botswana Standard covers precast concrete sections, slabs, bases, lids and frames intended for use in the construction of manholes (including inspection chambers) in storm water, drainage and sewage pipelines.

ICS: 91.100.30  Price code: 17  Pages: 44

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

ICS: 23.040.20  Price code: 16  Pages: 40

Covers two duties (normal and heavy) of unplasticized polyvinyl chloride (PVC-U) pipes of nominal sizes 110 mm – 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.

ICS: 23.040.20  Price code: 17  Pages: 42

Covers plain, unthreaded and threaded polypropylene homopolymer (type PP-H), copolymer (type PP-B) and random polymer (PP-R) and pressure pipes and integral and threaded fittings fitted by the manufacturer, intended for above and below ground applications for the conveyance of fluids under pressure.

ICS: 13.060.50  Price code: 12  Pages: 24

Requirements for the following two types of flexible polyvinyl chloride garden hose for use with cold water.

ICS: 13.060.50  Price code: 8  Pages: 16
BOS 84: 2003  Aggregates from natural sources – Fine aggregates for plaster and mortar – Specification
The standard specifies requirements for fine aggregate from natural sources, for use in mortar and plaster.
ICS: 91.100.15  Price code: 8  Pages: 16

BOS 90: 2014  Citrus fruit – Grading requirements
This standard is applicable to citrus fruit of varieties grown from lemon (Citrus limon), Mexican lime (Citrus aurantifolia), Persian lime (Citrus latifolia), mandarin or tangerine (Citrus reticulate), sweet orange (Citrus sinensis), pummelo or Shaddock (Citrus grandis), grapefruit (Citrus paradisi) and any hybrid thereof to be supplied fresh to the consumer, citrus fruit for industrial processing being excluded.
ICS 67.120.10  Price code: 8  Pages: 16

BOS 92: 2004 see page 109

BOS 93: 2012 2nd ed. Waste water – Physical, microbiological and chemical requirements - Specification
This Botswana Standard specifies requirements for physical, microbiological and chemical limits for waste water discharged into sewer, a watercourse and open environment.
ICS: 13.060.45  Price code: 8  Pages: 16

BOS 94: 2004  Glass-fibre-reinforced thermosetting plastics (GRP) pipes for water supply, sewerage and drainage – Specification
This standard applies to GRP pipes of nominal sizes 25 mm to 3 600 mm (inclusive), nominal pressure (PN) classes 2.5, 6, 8, 10, 12.5, 16, 20, 25, 32 and 40, and nominal stiffness (SN) classes 630, 1 250, 2 500 and 5 000, suitable for use in water systems, service and distribution piping systems, and transmission piping systems above or underground.
ICS: 13.060.50  Price code: 14  Pages: 32

This Botswana standard specifies requirements for pipes, fittings, and joint assemblies manufactured from glass fibre-reinforced thermosetting resins for the conveyance of liquid or gas hazardous chemical substances in industrial applications, that are designed for general operation under conditions of internal pressure or vacuum product of maximum allowable pressure (PS), in bar, and nominal diameter (DN), in millimetres, does not exceed the value of 6 000 for liquids and gases, and that can be lined or unlined.
ICS: 23.040.20  Price code: 22  Pages: 66

BOS 94-3: 2008  Glass fibre-reinforced thermosetting plastics (GRP) pipes Part 3: Pipes, fittings, and ancillaries for underground (buried) fire protection services - Specification
This Botswana standard covers the design, manufacture, certification, transportation, installation and inspection of GRP pipes, fittings and ancillaries for use as underground (buried) fire protection services.
ICS: 23.040.20  Price code: 16  Pages: 36

BOS 95-1: 2005  Sawn softwood timber Part 1: General requirements
This part of BOS 95 specifies requirements for visually, mechanically and proof graded sawn softwood timber, for use as structural timber, bracing and battens, for frame wall construction and for industrial purposes, driven from coniferous trees of the genus Pinus.
ICS: 91.080.20  Price code: 13  Pages: 28
BOS 95-2: 2005  Sawn softwood timber – Part 2: Stress-graded structural timber and timber for frame wall construction
This standard specifies requirements for three stress grades of visually graded structural timber and three stress grades of mechanically graded structural timber (including finger-jointed structural timber).
ICS: 91.080.20  Price code: 10  Pages: 20

This part of BOS 95 specifies requirements for six grades of timber intended for industrial use but not for structural use. This standard should be read in conjunction with BOS 95-1, except under the certification mark scheme, assessment of compliance with the requirements of 5.6 requires special agreement between supplier and purchaser.
ICS: 91.080.20  Price code: 8  Pages: 16

BOS 96: 2005  Wood mosaic flooring – specification
Requirements for two grades of mosaic flooring in the form of prefabricated panels that are made from fillets of certain species of wood and are intended to be bonded to a supporting base.
ICS: 91.060.30  Price code: 8  Pages: 20

BOS 97: 2004  Softwood flooring boards – Specification
This standard covers the requirements for three grades; clear flooring; select flooring and flooring of softwood flooring boards obtained from timber derived from coniferous trees of the genera Pinus, Cedrus, Podocarpus and Cupressus.
ICS 91.060.30  Price code: 10  Pages: 20

BOS 98: 2004  Wood-wool panels (cement-bonded) – Specification
This standard covers the materials and the dimensional, constructional, and physical requirements for two types of cement-bonded wood-wool panels for use in buildings 

ICS 91.100.30  Price code: 10  Pages: 20

BOS 100: 2004  The installation of resilient thermoplastic and similar flexible floor covering materials – Code of practice
This standard covers established methods of good practice for the installation of resilient thermoplastic and similar flexible and semi-flexible floor covering materials, as well as guidance on the selection and properties of the materials.
ICS 91.100.30  Price code: 10  Pages: 20

This Botswana Standard covers the components of precast concrete suspended slabs of two different systems; hollow core slabs and beam and infill block slabs, as used in buildings for floors and roofs.
ICS 91.100.30  Price code: 10  Pages: 20

Requirements for the installation of concrete paving blocks on roads, commercial projects, industrial areas, domestic paving and specialized applications.
ICS 91.100.30: 93.080.20  Price code: 14  Pages: 32

BOS 103: 2011 2nd ed.  Precast concrete kerbs, edgings and channels - Specification
This standard specifies the dimensional and physical requirements for various types of precast concrete kerbs, edgings and channels intended for use in the construction of roads and footpaths.
ICS 91.100.30: 93.080.20  Price code: 10  Pages: 20
BOS 104: 2012 2nd ed.  Prefabricated concrete components for fences

Specification
This Botswana Standard specifies requirements for prefabricated concrete components of the following types, for use in concrete fences:

a) posts;
b) plain panels;
c) decorative panels.

ICS: 91.090; 91.100.30  Price code: 10  Pages: 20

BOS 105: 2004  Concrete flooring tiles – Specification
This standard covers natural coloured, single coloured and terrazzo concrete flooring tiles.

ICS 91.100.30  Price code: 6  Pages: 12

BOS 106: 2004  Fruit juices and fruit drinks
Prescribes the requirements for fruit juices and fruit drinks

ICS: 67.160.20  Price code: 6  Pages: 11

BOS 107-1: 2005  Road signs – Part 1: Retro-reflective sheeting material – Specification
This part of BOS 107 specifies requirements for retro-reflective sheeting material and non-retro-reflective black sheeting for use on road signs on public roads.

ICS: 93.080.30  Price code: 10  Pages: 20

This part of BOS 107 covers the performance requirements of retro-reflective and non-retro-reflective road signs for use as regulatory, warning, information and guidance signs on public roads. This standard shall be used in conjunction with the Botswana traffic Signs manual and the Road Traffic legislation. This standard does not cover portable temporary road signs.

ICS: 93.080.30  Price code: 10  Pages: 20

BOS 108: 2005  Rotational moulded polyethylene water storage tanks - Specification
This standard covers the requirements of materials, dimensions construction, shape, workmanship, performance requirements and inspection and testing of rotational moulded polyethylene water storage with a nominal service temperature from 1°C to 50°C. These tanks are not meant for underground applications.

ICS: 23.020.01  Price code: 10  Pages: 20

BOS 110: 2005  The design and installation of ceramic tiling – Code of practice
Deals with all work involved in the internal and external laying of ceramic wall, floor tiles and mosaics.

ICS: 91.100.25  Price code: 22  Pages: 72

This Botswana Standard applies to maize grains as defined for direct human consumption that is ready for its intended use as a human food, presented in packaged form or sold loose from the package directly to the consumer. This standard specifies requirements for whole grain shelled dent maize, Zea mays indentata L., and/ or shelled flint maize, Zea mays indurate L., or their hybrids. It does not apply to processed maize and other products derived from maize grains.

ICS: 67.060  Price code: 8  Pages: 16
BOS 115:2015  Bakery products — Loaf of bread — Specification
Specifies the requirements and quality test methods for white bread, brown bread, wholemeal bread and enriched bread, referred to as loaves of bread.
ICS: 67.060  Price Code: 8  Pages: 16

BOS 116: 2011 2nd ed. See page 109

BOS 117: 2011 2nd ed. See page 109

BOS 118: 2005 see page 109

BOS 119: 2005  White chalks — Specification
This specification covers soft, hard and soft dust-free white chalks.
ICS: 97.180  Price code: 6  Pages: 12

BOS 120: 2005  Coloured chalks — Specification
Specifies requirements for coloured chalks (soft and dust-free) and pastels, intended for use in schools.
ICS: 97.180  Price code: 12  Pages: 24

BOS 121: 2005  The measurement of noise emitted by road vehicles when stationary — Code of practice
Covers the measurement, at a readily available site, of noise produced by road vehicles when stationary, as a check on vehicles in service.
ICS: 17.140.30; 43.020  Price code: 6  Pages: 12

BOS 122: 2005  Engine speed (S values), reference sound levels and permissible sound levels of stationary vehicles — Code of practice
The Botswana Standard is intended to be used in conjunction with BOS 121, and contains the following information regarding a road vehicle: the reference sound level (see 3.2), if supplied by the motor vehicle manufacturer; the stationary sound level limit (see 3.3); and the S value see 3.4).
ICS: 17.140.30; 43.020  Price code: 12  Pages: 24

Covers the determination of manganese in water and wastewater.
ICS: 13.060.50  Price code: 4  Pages: 8

Specifies a method of determining the manganese content of water and wastewater, using an air-acetylene flame and direct flame atomic absorption.
ICS: 13.060.50  Price code: 4  Pages: 8

BOS 125: 2005  Water quality - Determination of dissolved solids
Specifies a method of measuring the concentration of dissolved solids in water and in wastewater by gravimetric determination of the dry residue of the sample after filtration through a membrane filter, size 0.45 um.
ICS: 13.060.60  Price code: 4  Pages: 8
BOS 126: 2013  Milk and milk products – Ultra high temperature treated cow’s milk - Specification
This Botswana Standard specifies the requirements for cow's milk or homogenized cow's milk, which has been treated by the Ultra High Temperature method.

ICS: 67.100.10  Price code: 6  Pages: 12

This Botswana Standard specifies requirements for the material, basic properties, and design of extruded profiles produced from unplasticized polyvinyl chloride (PVC- U) for the construction of window and door frames for external use.

ICS: 91.060.50  Price code: 16  Pages: 40

BOS 128: 2005  Men’s and women’s leather belts
Covers the requirements for the materials, basic, design, size and construction of lined, unlined and reversible men’s and women’s leather belts.

ICS: 61.040  Price code: 8  Pages: 16

BOS 129: 2005  The manufacture of sanitary towels
Covers the manufacturing and performance requirements for four types of sanitary towel for external use.

ICS: 59.080.30  Price code: 12  Pages: 24

BOS 131: 2005  Elasticated, disposable diapers for adults
Specifies performance requirements for 4 sizes of elasticated, disposable diapers for adults.

ICS: 59.080.30  Price code: 8  Pages: 16

BOS 134: 2005  The measurement of motor vehicle exhaust emissions – Code of practice
This code of practice gives specifications for the testing and determination of motor vehicle emissions for petrol and diesel powered vehicles operating under steady-state conditions. It specifies the maximum permissible values of carbon monoxide (CO), hydrocarbons (HCs) and smoke (opacity) for the exhaust gases emitted.

ICS: 13.040.50  Price code: 4  Pages: 8

BOS 135: 2005  Ready-mixed concrete
Requirements for ready-mixed concrete, its constituent materials, batching and mixing equipment, production and delivery, testing, quality control, keeping of records and defines the responsibilities of the purchaser and the supplier.

ICS: 91.100.30  Price code: 10  Pages: 20

BOS 138: 2011  Wooden doors – Specification
This Botswana standard covers the requirements for wooden doors of three exposure classes and three performance classes. This Botswana standard does not cover the requirements for the doors manufactured in accordance with BOS 397.

ICS: 91.060.50  Price code: 16  Pages: 36

BOS 143: 2011  Bottled water other than natural mineral water – Specification
This Botswana standard specifies the physical chemical and microbiological requirements for bottled water other than natural water for human consumption. It also specifies permissible treatments and the requirements for bottling and labelling. The water may be offered as bottled non-carbonated (still)
water or bottled carbonated (sparkling) water. This standard excludes water that contains sugar, sweeteners, flavourants or other additives.

ICS: 13.060.20  Price code: 10  Pages: 20

**BOS 144: 2011**  **Floor and furniture polish – Wax emulsion polish – Specification**
This standard specifies requirements for wax emulsion paste polish and two types of wax emulsion liquid polish suitable for use on furniture and floors. Wax polish containing organic solvent (s) shall not be used on thermoplastic (asphalt), semi-flexible vinyl (vinyl-asbestos), flexible vinyl, linoleum and rubber surfaces.

ICS: 75.140  Price code: 8  Pages: 16

**BOS 145: 2005**  **Wax polish solvent-based for floors and furniture – Specification**
This standard covers two forms, i.e. liquid and paste, of solvent-based wax polish suitable for use on furniture and floors, other than those of thermoplastic (asphalt), semi-flexible vinyl (vinyl-asbestos), flexible vinyl, linoleum and rubber.

ICS: 75.140  Price code: 8  Pages: 16

**BOS 146: 2005**  **Scouring compounds – Soap base (metric units) – Specification**
This Botswana Standard covers two types of scouring compounds, powder and paste (see 4.1) for the removal of tenacious soil from hard surfaces.

ICS 75.140  Price code: 6  Pages: 12

**BOS 147: 2009**  **Scouring powder: Synthetic detergent base – Specification**
This Botswana Standards covers scouring powder used for the removal of tenacious soil from hard surfaces.

ICS: 71.100.40  Price code: 8  Pages16

**BOS 148: 2005**  **Steel bars for concrete reinforcement – Specification**
This specification covers the physical and mechanical requirements for carbon steel bars intended for use as reinforcement for concrete. It does not cover any surface treatment of the steel bars. The users attention is drawn to the following standards; BOS 150, SANS 1200G, BOS 214-1, BOS 214-2 and SANS 10144.

ICS: 77.140.15; 77.140.60; 91.080.40  Price code: 12  Pages: 24

**BOS 149: 2005**  **Welded steel fabric for reinforcement of concrete**
The characteristics of steel fabric of hard-drawn steel wire, consisting of longitudinal and cross wires welded together, and intended for use as a form of reinforcement for concrete.

ICS: 77.140.15; 77.140.50; 91.080.40  Price code: 8  Pages: 16

**BOS 150: 2005**  **Bending dimensions and scheduling of steel reinforcement for concrete.**
Bending dimensions, the methods of measuring bending dimensions and the scheduling of steel bars that are used for the reinforcement of concrete.

ICS: 77.140.15; 77.140.60; 91.100.30  Price code: 12  Pages: 24

**BOS 151: 2005**  **Industrial solar heating systems for hot water – On site test method – thermal performance**
Specifies an on-site test method for the indication of thermal performance of installed industrial solar water heating systems.

ICS: 27.160  Price code: 8  Pages16

*Standards catalogue  Updated: June 2018* 28
BOS 152: 2005  Definitions and measurement procedure – Code of practice
This code of practice defines body dimensions for the preparation of garment patterns and garment stands, and specifies a standard procedure for measuring the body.
ICS: 61.020  Price code: 10  Pages: 20

BOS 153: 2005  Size designation of clothes – Men's and boys' wear garments – Specification
This standard specifies a system of designating the sizes of men's and boys' wear garments that are classified as covering the upper or the whole body or covering the lower body only, and it applies to civilian and uniform garments. Both the control dimensions on which the size designation system is based, and the method of indicating the size designation on a garment label are specified.
ICS: 61.020  Price code: 8  Pages: 16

BOS 154: 2005  Size designation of women's and girl's wear – Specification
This standard establishes a system of designating the sizes of women's and girl's outerwear and underwear garments that are classified as covering the upper or the whole body or covering the lower body only, and it applies to civilian and uniform garments. Both the control dimensions on which the size designation system is based, and the method of indicating the size designation on a garment label are specified. This standard also contains details of a size coding scheme, which is to be included on the garment label together with the control dimensions.
ICS: 61.020  Price code: 8  Pages: 16

BOS 155: 2005  Cereals – Sorghum malt
Specifies requirements for sorghum malt intended for human consumption.
ICS: 67.060  Price code: 8  Pages: 16

Specifies a method for the determination of diastatic power of malts prepared from sorghum grain.
ICS: 67.060  Price code: 6  Pages: 12

Specifies requirements for sorghum meal and sorghum flour intended for direct human consumption.
ICS: 67.060  Price code: 8  Pages: 16

BOS 158: 2011 2nd ed.  see page 109

BOS 159: 2011 2nd ed.  see page 109

BOS 160: 2011 2nd ed.  see page 109

This Botswana standard covers the requirements for the performance of safety glazing materials in buildings with regard to injuries (cutting or piercing) sustained on human impact. It also covers the requirements for the performance of organic coated safety glass in buildings only when the entire area of the glass pane is covered. The standard does not cover glass with organic coatings that are applied to the glass at any place other than the works of a manufacturer. It does not cover the performance of safety glazing materials under fire conditions.
Note: Provisions on the use of safety glazing materials are contained in SANS 10137 and SANS 17.
ICS: 81.040.20  Price code: 12  Pages: 24
This Botswana Standard covers requirements for the performance of bullet-resistant glazing materials intended for use in areas of buildings that may be subjected to attack with firearms. This standard does not cover requirements for the retention of bullet resistant or shot resistant properties for a stated period of time.

ICS: 81.040.20 Price code: 8 Pages: 16

BOS 162: 2005 PVC-U window and door frames for external use - Windows with frames made from PVC-U profiles – Specification
This Botswana standards specifies requirements for the material, construction, types, dimensions, properties and performance of windows with frames made from extruded unplasticized polyvinyl chloride (PVC-U) profiles which meet the requirements of BOS 127. The scope of this standard extends to such windows within a curtain-walling system, with the exception of curtain walls that span across horizontal structural members or floors. Windows with PVC-U frames in which any frame member is longer than 3m are also excluded.

ICS: 91.060.50 Price code: 18 Pages: 48

This Botswana Standard covers the principles, responsibilities and requirements generally applicable to all civil engineering construction and building works.

ICS: 93.010 Price code: 12 Pages: 24

This Botswana Standard covers the principles, responsibilities and requirements generally applicable to all civil engineering construction and building work on small projects such as piling, drilling and sports field contracts, and on buildings, bridges and similar isolated structures and on other minor works.

ICS: 93.020 Price code: 10 Pages: 20

This Botswana Standard specifies the requirements for offices and the minimum associated facilities for the use of the engineer on site. It covers the scheduled number of identical offices and allows for mobile and semi-mobile accommodation.

ICS: 93.020 Price code: 6 Pages: 12

BOS 163-5: 2010 Civil engineering construction – Part 5: General (structural)
This Botswana Standard covers the principles, general responsibilities and requirements applicable to the construction or fabrication and erection of a structure or group of structures in concrete (cast-in-situ, precast or prestressed), steel, aluminium or structural timber.

Note: Terminology used throughout the standardized specifications is explained because, in terms of the conditions of contract, the employer, the contractor and the engineer have certain rights and obligations that can be exercised most equitably when all parties have a clear understanding of the operations that are covered by each item in the schedule of quantities. As this specification is applicable only to construction, on a prepared site or foundation, of a structure or group structures that fall within a single work classification (See Annex A to SANS 10120-1). Only one item is scheduled to cover that cost of the contractor’s obligations of a preliminary and general nature.

ICS: 93.010 Price code: 8 Pages: 16
This code of practice covers the construction of gabions and stone pitching for the protection of earthworks against erosion. It covers gabion walls and aprons used as retaining walls, channel linings, and the like and covers light to heavy pitching, with and without mortar.

ICS: 93.020			Price code: 10	Pages: 20

This Botswana Standard covers:
- a) The construction, up to and including the selected layer, of the subgrade in new roads,
- b) The reconstruction of existing roads, and
- c) Except where BOS 163-33 forms part of the contract document, the construction of gravel road surfaces in urban and industrial areas.

ICS: 93.020			Price code: 12	Pages: 24

This Botswana Standard covers the bedding (bedding cradle and selected fill blanket) for buried pipes carrying fluids under pressure or gravity.

ICS: 93.020			Price code: 10	Pages: 20

This Botswana Standard covers the general construction requirements for sewerage systems including connecting sewers, manholes, and the like, but excluding sewer rising mains, pump stations, treatment works, and ancillary works.

ICS: 93.020			Price code: 13	Pages: 28

BOS 163-32: 2007 Civil engineering construction- Part 32: Roads (General) - Specification
This Botswana standard covers definitions and testing applicable to the construction of the controlled layers and surfacing of urban and industrial roads. It covers construction of cuts within the road prism and intersections, removal to spoil of unsuitable or excess material, compaction of the road bed, construction and compaction of fills and the selected layer using material from cuts in the road prism or from approved borrow pits, and finishing of cuts and fills, up to the stage where the sub-grade is ready for the placing of the sub-base or base (or both) and the shoulders.

ICS: 93.020			Price code: 17	Pages: 44

This Botswana Standard covers the requirements for base for light pavement structures, shoulders, footways and paved areas of category C and D in accordance with TRH 4 and category UC and UD in accordance with UTG 3. It covers the procuring, furnishing, classification, placing, compaction and finishing of approved natural gravel, stabilized gravel or crushed stone and water bound macadam.

ICS: 93.020			Price code: 10	Pages: 20

This Botswana Standard covers the priming of the sub-base and the construction of two types of hot-mix asphalt base and surfacing namely:
- a) Continuously graded asphalt; and
- b) Gap-graded and open-graded asphalt which, in the case of surfacing, includes rolled-in pre-coated chips or a friction course of open graded asphalt.

ICS: 93.020			Price code: 14	Pages: 32

Standards catalogue Updated: June 2018
This Botswana Standard covers the paving of roads and other areas with precast concrete segmental blocks laid closely together, the joints between the units being filled with jointing sand.

ICS: 93.020  Price code: 8  Pages: 16

This Botswana Standard covers:
   a) The supply and installation of metal W – section guardrails for rails
   b) The supply and erection of permanent road signs alongside and cover carriageways, ramps, and cross roads
   c) The permanent marking of road surfaces with white or yellow painted lines and symbols and the supply and fixing of retro – reflective road studs.

ICS: 93.080.01  Price code: 14  Pages: 32

BOS 164: 2006  Lime for soil stabilization
Covers quick limes and slaked (hydrated) limes of three types, namely calcium, magnesium and dolomitic, for use in soil stabilization and produced by: calcining of limestone, treatment of calcium carbide.

ICS: 91.100.10  Price code: 8  Pages: 16

BOS 165: 2006  Aggregates from natural resources – Aggregates for concrete
This standard specifies the requirements for fine and coarse aggregates from natural sources for use in concrete.

ICS: 91.100.30  Price code: 8  Pages: 16

BOS 166: 2006  Precast concrete paving slabs – Specification
This Botswana Standard specifies requirements for precast concrete paving slabs for use as a wearing surface for pavements, footpaths, etc, but not for roads.

ICS: 91.060.30  Price code: 12  Pages: 24

BOS 170-1: 2006  Suspended ceilings – Part 1: Code of practice for design
This standard gives recommendations for the design of suspended ceilings of dry construction with suspension systems of lightweight steel or aluminium alloy sections.

ICS: 91.060.30  Price code: 13  Pages: 28

BOS 170-2: 2006  Suspended ceilings – Part 2: Performance of components and assemblies
This part of BOS 170 specifies materials and tolerances as well as requirements for performance of components and complete assemblies of dry construction suspended ceilings, with suspension systems of lightweight steel or aluminium alloy sections and infill units of the types described in clause 6.

ICS: 91.060.30  Price code: 12  Pages: 24

This standard gives recommendations for the installation, earth continuity testing and maintenance of suspended ceilings complying with BOS 170-2.

ICS: 76.080  Price code: 8  Pages: 16
BOS 171: 2006  Adhesives for tiles – Specification
This Botswana standard is applicable to ceramic tile adhesives for internal and external tile installations on walls and floors. It gives the terminology concerning the products, working methods, application properties for ceramic tile adhesives. It also specifies the values of performance requirements for the adhesives (cementitious, dispersion and reaction resin adhesives.)

ICS: 01.040.83; 01.040.91; 83.180; 91.100.10  Price code: 10  Pages: 20

BOS 172: 2006  Gypsum plasterboard - Specification
This standard specifies the requirements for gypsum plasterboard that is intended to be used as vertical or horizontal linings in buildings, but does not include plaster board that has been subjected to secondary manufacturing operations. The standard includes boards manufactured to receive either direct surface decoration or gypsum plaster finishes.

ICS: 91.100.10  Price code: 12  Pages: 24

BOS 173: 2006  Preservative treated timber – Specification
This standard specifies treatment requirements (other than the method of treatment) for preservative-treated timber and timber products (other than for composite board products that fall within the scopes of BOS 204-1, BOS 204-2,SANs 753 and BOS 176) that have a predicted service life at various levels of preservative treatment which are considered to be acceptable for a range of hazard conditions.

This standard is not applicable to treatment with fire retardants or to treatments aimed at improving the physical properties of timber and timber products, nor does it cover the inherent quality of timber or timber products, or properties other than in respect of preservative treatment.

Note 1: Except under the certification mark scheme, assessment of compliance with the requirements of 4.1, 4.3, 4.4 (in the cases of class C and class W preservatives), 4.6 (except where quantitative analysis has been agreed upon) and 4.7, requires special agreement between the supplier and the purchaser.

Note 2: Where class G preservatives have been used, previous grading of timber in respect of moisture content, splits, checks, warp, dimensions and finish may be invalidated.

Note 3: This standard should be read in conjunction with BOS 174.

ICS: 71.100.50  Price code: 13  Pages: 28

BOS 174: 2006  The preservative treatment of timber – Specification
This standard covers the classification of timber preservatives, hazard conditions for timber, the solvents used for timber preservatives, the preparation of timber for treatment, the various timber processes and the use of preservative treated timber in Southern Africa. Recommendations relating to the handling and safety of preservative treated timber are also given. This specification does not cover treatment with fire retardants.

ICS: 79.040  Price code: 13  Pages: 28

BOS 176: 2006  Eucalyptus poles, cross-arms and spacers for power distribution and telephone systems -Specification
This standard specifies requirements for eucalyptus 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 telephone systems, and as upright supports, cross-arms and spacers (in five-pole structures) for power distribution lines.

ICS: 79.040  Price code: 16  Pages: 36
BOS 177: 2006  Glass-fibre reinforced plastics sectional tanks for cold water storage – Specification
This Botswana Standard specifies requirements for rectangular glass-reinforced plastics (GRP) sectional tanks constructed from square or rectangular panels, for storage of cold water above ground for both domestic and industrial use. The water is in contact with the GRP tank surface.
ICS: 23.020.10  Price code: 14  Pages: 32

BOS 180: 2006 see page 109

This standard covers requirements for rear under-run protection devices and their installation on category M, N and O vehicles having a gross vehicle mass (GVM) exceeding 3 500 kg and intended for use on public roads, except for the vehicles listed in 1.2.
ICS: 43.040.60  Price code: 6  Pages: 12

BOS 190: 2006  Animal feeding stuffs- Pig feeds – Specification
The standard specifies requirements for the following types of feeds:
  a) pig creep meal
  b) pig weaner meal
  c) pig grower meal
  d) pig finisher meal
  e) lactation meal, and
  f) dry sow and boar meal
ICS: 65.120  Price code: 10  Pages: 20

BOS 191: 2006  Scholastic stationery – Specification
This standard covers several types of books and sheets of paper intended for scholastic and related uses. It specifies the covers, bindings, grades of paper and the types of ruling.
ICS: 85.080  Price code: 16  Pages: 40

BOS 192: 2006  Chalk writing boards for schools – Specification
This specification covers chalk writing boards made from metal, hardboard, composite board, plywood or high-pressure laminated board or a combination of these. It covers two classes of writing surface and four types of construction as well as boards with ruled writing surfaces and with chalk rails.
ICS: 85.080  Price code: 12  Pages: 24

BOS 193: 2006  Wood cased pencils and extruded plastic pencils, with graphite lead and coloured lead – Specification
This standard specifies the characteristics of:
  a) wood cased graphite lead pencils (of 14 hardness degrees) and of wood cased coloured lead pencils for general writing, drafting and drawing purposes
  b) wood cased graphite lead and coloured lead pencils intended for young children, and
  c) extruded plastics graphite lead pencils and extruded plastics coloured lead pencils for general writing, drafting and drawing purposes
ICS: 97.180  Price code: 13  Pages: 28

BOS 196: 2006 see page 109

BOS 198: 2008  Cheese – General specification
This Botswana Standard specifies the requirements for all cheese types ripened or unripened (soft, semi-hard, hard and extra-hard) derived from cow’s milk.
Note: Subject to the provisions of this specification, standards for individual varieties of cheese may contain provisions which are more specific than those in this specification and in these cases, those specific provisions apply.

ICS: 67.100.30 Price code: 8 Pages: 16

This Botswana Standard specifies requirements for comb, chunk and liquid honey. Honey is a natural product produced by bees with a wide range of colour, appearance, taste, viscosity, aroma and flavour.

ICS: 67.180.10 Price code: 10 Pages: 20

BOS 200: 2016 Fresh chicken table eggs (unfertilized) – Specification
 Specifies requirements for fresh eggs for sale which are produced by domesticated chicken (Gallus domesticus).

ISC: 67.120.20 Price code: 10 Pages: 20

BOS 201: 2006 see page 109

This part of BOS 202 specifies the constructional and operational requirements for gaming and related equipment that resides on, or is operated on (or both) the gaming floor of the casino.

ICS: 35.240.99 Price code:20 Pages: 60

BOS 202-2: 2006 Gaming equipment - Part 2: Monitoring and control systems for gaming equipment
This part of BOS 202 specifies the general hardware and software requirements and the list of significant events required for a monitoring and control system (MCS) for use in a casino.

ICS: 35.240.99 Price code: 14 Pages: 32

BOS 202-3: 2006 Gaming equipment - Part 3: Wagering record keeping systems
This part of BOS 202 specifies the general hardware and software requirements and the list of significant events required by the Botswana Licensing Authority (LA), for record keeping systems for the acceptance by the licensed operators of wagers on events permitted by the LA.

ICS: 35.240.99 Price code: 16 Pages: 36

BOS 202-4: 2006 Gaming equipment - Part 4: Local area and wide area jackpot and progressive jackpot equipment
This standard sets out the requirements for gaming equipment that is added to existing gaming equipment to provide an addition layer of prizes referred to as jackpots. These jackpots may consist of a single fixed-value prize or may increment from a nominated base amount according to the amounts played on a single machine or, more usually a group of linked machines (Progressive Jackpot).

ICS: 35.240.99 Price code: 10 Pages: 20

BOS 202-5: 2006 Gaming equipment - Part 5: Tokens
This standard specifies constructional and design requirements for tokens (used as betting and wagering media in gaming equipment), to be used on licensed premises, as specified by the licensing authority.

ICS: 35.240.99 Price code: 4 Pages: 8

BOS 204-1: 2006 Wooden poles, droppers, guard rails posts Part 1: Hardwood species
This Botswana standard specifies requirements for preservative-treated hardwood structural poles, agricultural poles, fencing poles, round droppers, guardrail posts and spacer blocks. The poles are
intended for the erection of fences and vine trellises, for general use in orchards and for structural purposes. The droppers are intended for fencing. The posts and spacer blocks are intended for the erection of steel guardrails at the sides of roads.

Timber used in ground contact and exterior above ground contact, should have an expected life span of at least 20 years when treated in accordance with the requirements applicable to the exposure classes (see Table 3 and Table 4). Timber treated for interior above ground exposure class should have an expected life span equal to that of the structure it is used in.

NOTE Except under the certification mark scheme, assessment of compliance with the requirements of 6.2 to 6.6 (inclusive) and, except in the case of units treated with creosote or a creosote and waxy oil mixture, 4.4, requires special agreement between the supplier and the purchaser.

ICS: 91.080.20 Price code: 18 Pages: 48

BOS 204-2: 2006 Wooden poles, droppers, guard rails posts and spacer blocks
Part 2: Specification

This standard specifies requirements for preservative-treated softwood poles, droppers, guardrail posts and spacer blocks. The poles are intended for the erection of fences and vine trellises, for general use in orchards and for structural purposes. The droppers are intended for fencing. The posts and spacer blocks are intended for the erection of steel guardrails at the sides of roads. Timber used in ground contact and exterior above ground contact, should have an expected lifespan of at least 20 years when treated in accordance with the requirements applicable to the exposure classes (see Table 3). Timber treated for interior above ground exposure class should have an expected life span equal to that of the structure it is used in.

NOTE 1 Except under the certification mark scheme, assessment of compliance with the requirements of 5.2 to 5.6 (inclusive) and, except in the case of units treated with creosote or a creosote and waxy oil mixture, Table 3, requires special agreement between the supplier and the purchaser.

NOTE 2 Steps should be taken to prevent the "mushroom top phenomena" (cutting of wire into the pole) in poles to be used as straining poles, as in vineyards.

ICS: 91.080.20 Price code: 17 Pages: 44


This standard covers two types of polyester and cotton fabric suitable for nurse’s uniforms.

ICS: 59.080.30 Price code: 8 Pages: 16

BOS 206: 2006 Polyester and wool uniform fabrics – Specification

This standard covers seven types of dyed polyester and wool fabric suitable for lightweight uniform.

ICS: 59.080.30 Price code: 8 Pages: 16

BOS 207: 2015 National Flag – Specification

This standard covers the materials, design and make of four types of the National Flag of the Republic of Botswana.

ICS: 59.080.99 Price code: 12 Pages: 24

BOS 208: 2006 Care labelling of textiles and clothing – Specification

This Botswana Standard covers a system of graphical symbols for use in the permanent marking of textile piece-goods for retail sale and make-up textile articles, to provide the consumer, dry-cleaner or launderer with information on the appropriate cleaning treatment essential for the care of the fabric or article. This standard does not cover a system of graphical symbols for textile floor coverings and upholstered articles.

ICS: 61.020 Price code: 10 Pages: 20

BOS 209: 2006 Sewing threads – Specification

This Botswana Standard specifies the requirements for cotton, polyamide, polyester and core-spun sewing threads suitable for use in the manufacture of textiles articles, clothing and footwear.
ICS: 59.080.20  
Price code: 8  
Pages: 16

**BOS 211: 2006**  
*Printed labels for textiles – Specification*  
This Botswana Standard covers printed fabric labels suitable for informative labelling of textile articles and garments.

ICS: 61.020  
Price code: 6  
Pages: 12

**BOS 213: 2006**  
*Cereals – Milled maize products – Specification*  
This standard applies to milled maize products for direct human consumption prepared from kernels of common maize, *Zea mays* L., as described in BOS 114.

ICS: 67.060  
Price Code: 6  
Pages: 12

**BOS 214-1: 2006**  
*The structural use of concrete – Part 1: Design – Code of Practice*  
This standard establishes principles for the structural use of concrete under the following stipulations:  
a) **method 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, pre-stressed and precast structures of elements and in plain concrete walls;  
c) **types of structures:** buildings and structures in which all load bearing elements (e.g. slabs, columns, walls etc.) are of concrete

ICS 91.100.30  
Price code: 25  
Pages: 196

**BOS 214-2: 2006**  
*The structural use of concrete Part 2: Materials and execution of work – Code of practice*  
This part of BOS 214 covers the materials and execution of work related to the structural use of concrete in buildings and structures where the design of reinforced, pre-stressed and precast concrete is entrusted to appropriately qualified structural or civil engineers and the execution of the work is carried out under the direction of approximately qualified supervisors. This part of BOS 214 does not cover the structural use of concrete made with high-alumina cement.

ICS 91.100.30  
Price code: 22  
Pages: 76

**BOS 225: 2006**  
*Poultry feeds – Broiler breeder feeds - Specification*  
This Botswana Standard specifies the basic requirements for broiler breeder feeds

ICS 65.120  
Price code: 4  
Pages: 8

**BOS 227: 2006**  
*Gel detergent cleaner (non-abrasive) – Specification*  
This Botswana Standard specifies the requirements for a gel detergent cleaner, without abrasive properties, not intended for normal dishwashing, but suitable for the cleaning of stainless steel, aluminium, corrosion resistant metal, ceramic tiles, glass, polyvinyl chloride and painted surfaces. This product is not suitable for the cleaning of floors that have a coating of polish. This Botswana Standard covers packing and marking which compliments BOS 66-1 which deals with classification, packaging and labelling of chemicals.

ICS: 71.100.40  
Price code: 6  
Pages: 12

**BOS 228: 2006**  
*Liquid furniture polish (non-wax emulsion type) – Specification*  
This Botswana Standard covers a non-wax emulsion type liquid furniture polish suitable for general application to untreated wooden furniture. The standard covers packing and marking which compliments BOS 66-1, classification, packaging and labelling of chemicals.

ICS: 71.100.40  
Price code: 6  
Pages: 12
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>BOS 229: 2006</td>
<td><strong>Polish stripper – Specification</strong></td>
<td>This Botswana Standard covers an ammoniated and a non-ammoniated type of polish stripper that are both suitable for use in the removal of polymer coatings and wax coatings from all types of floor other than unsealed wood and cork floors.</td>
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<td>ICS: 71.100.40</td>
<td>Price code: 8</td>
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<td><strong>BOS 229: 2016 2ND Ed</strong></td>
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<tr>
<td></td>
<td><strong>BOS 231: 2006</strong></td>
<td>Health, safety and environmental guidelines for the construction and operation of timber treatment plants – Code of practice</td>
</tr>
<tr>
<td></td>
<td>This Botswana Standard serves as a practical guide on occupational health and safety and environmental aspects in and around timber treatment plants with the intention to reduce health and safety and environmental risks. It is applicable to any treatment process (as described in BOS 174 in which waterborne preservatives, flame-retardants, anti-sap stain chemicals, organic solvent-based preservatives or oil-borne preservatives are used.</td>
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<td>ICS: 13,100; 79.020</td>
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<td><strong>BOS 233-1: 2007</strong></td>
<td><strong>School clothing – Part 1: General requirements – Specification</strong></td>
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<tr>
<td></td>
<td>This Botswana Standard specifies the general requirements for materials, workmanship, packing, care-labelling, marking and inspection of school clothing.</td>
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<td><strong>BOS 233-2: 2007</strong></td>
<td><strong>School clothing – Part 2: Blazers – Specification</strong></td>
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<td></td>
<td>This Botswana Standard covers the requirements for the materials, sizes and make of school blazers for boys and girls.</td>
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<td>ICS 61.020</td>
<td>Price code: 8</td>
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<td><strong>BOS 233-3: 2007</strong></td>
<td><strong>School clothing – Part 3: Trousers and shorts – Specification</strong></td>
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<tr>
<td></td>
<td>This Botswana Standard specifies the materials, cut, make and trim of boys’ trousers and shorts.</td>
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<td>ICS 61.020</td>
<td>Price code: 6</td>
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<td><strong>BOS 233-4: 2007</strong></td>
<td><strong>School clothing – Part 4: Shirts – Specification</strong></td>
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<td>This standard specifies the materials, cut, make and trim of shirts for boys and girls.</td>
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<td>ICS 61.020</td>
<td>Price code: 6</td>
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<td><strong>BOS 233-5: 2007</strong></td>
<td><strong>School clothing – Part 5: Dresses, tunics and gym dresses – Specification</strong></td>
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<tr>
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<td>This standard specifies the materials, cut, make and trim of dresses, tunics and gym dresses.</td>
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<td><strong>BOS 233-6: 2007</strong></td>
<td><strong>School clothing – Part 6: Girls’ slacks and skirts - Specification</strong></td>
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<td>This standard specifies the materials, cut, make and trim of girls’ slacks and skirts.</td>
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<td>ICS 61.020</td>
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BOS 233-7: 2007  School clothing – Part 7: Jerseys and cardigans - Specification
This Botswana Standard covers the requirements for the materials, size, and make of school jerseys and cardigans.
ICS 61.020  Price code: 8  Pages: 16

BOS 233-8: 2007  School clothing – Part 8: Tracksuits - Specification
This Botswana Standard covers the requirements for the materials, size and make of tracksuits.
ICS 61.020  Price code: 6  Pages: 12

This Botswana Standard covers the requirements for materials, size and make of athletic wear made from woven or knitted fabrics (or both).
ICS 61.020  Price code: 6  Pages: 12

This Botswana Standard covers the requirements for two types of knee-high stockings and two types of ankle socks for school wear.
ICS 61.020  Price code: 10  Pages: 20

This Botswana Standard specifies the basic requirements for guinea fowl feeds.
ICS 65.120  Price code: 6  Pages: 12

This Botswana Standard covers the definitions, basic requirements, requirements for packing, labelling, marking, and the inspection and testing of fabrics that are suitable for use in the manufacture of school clothing. Specific requirements are covered by the relevant individual parts of BOS 235.
ICS 59.080.30  Price code: 6  Pages: 12

This Botswana Standard covers the specific requirements for six types of plain dyed fabric and one type of striped fabric suitable for use in the manufacture of school wear blazers.
ICS 59.080.30  Price code: 6  Pages: 12

This Botswana Standard covers the requirements for polyester-and-wool fabrics suitable for use in the manufacture of clothing.
ICS 59.080.30  Price code: 6  Pages: 12

This Botswana Standard covers the requirements for polyester-and-viscose fabrics of three weave structures, suitable for use in the manufacture of school clothing.
ICS 59.080.30  Price code: 6  Pages: 12

This Botswana Standard covers the requirements for polyester-and-viscose fabrics of two weave structures, suitable for use in the manufacture of school clothing.
ICS 59.080.30  
Price code: 6  
Pages: 12

BOS 235-6: 2007  
School wear fabrics – Part 6: Shirting and blouse fabrics - Specification  
This Botswana Standard covers the requirements for fabrics suitable for use in the manufacture of school wear shirts and blouses.

ICS 59.080.30  
Price code: 6  
Pages: 12

BOS 235-7: 2007  
School wear fabrics – Part 7: Fabrics containing textured yarns - Specification  
This Botswana Standard covers the requirements for fabrics, of two weave structures, containing textured yarns and suitable for use in the manufacture of school clothing.

ICS 59.080.30  
Price code: 6  
Pages: 12

BOS 235-8: 2007  
School wear fabrics – Part 8: Warp-knitted fabrics -Specification  
This Botswana Standard covers the specific requirements for one type of warp-knitted fabric suitable for use in the manufacture of school clothing.

ICS 91.140.70  
Price code: 10  
Pages: 20

BOS 236-1: 2007  
Shower trays - Shower trays made from acrylic material Part 1- Specification  
This Botswana Standard specifies the requirements for prefabricated shower trays made from acrylic materials. This Botswana Standard is applicable to all sizes and shapes of shower trays. No requirements are given for nominal shower tray sizes or dimensional coordination.

No requirements are given for the method of supporting shower trays as methods vary, but the rigidity is ensured by the installation meeting the general performance requirements specified in this standard.

ICS 85.080.20  
Price code: 8  
Pages: 16

BOS 243: 2007  
Toilet paper- Specification  
This Botswana Standard covers three types (see 4.1) of creped toilet paper supplied in rolls and inter-leaving sheets.

ICS 85.080.20  
Price code: 8  
Pages: 16

BOS 246: 2007  
Animal feeding stuffs – Rabbit feeds - Specification  
This Botswana Standard specifies the basic requirements for rabbit feeds

ICS 65.120  
Price code: 8  
Pages: 16

BOS 248: 2007  
The use of reinforcement cover devices for reinforced concrete - Code of practice  
This code of practice covers recommendations for provisions to achieve and maintain cover over reinforcement in insitu reinforced concrete members that are subject to normal construction loads. Where appropriate, the basic principles can also be applied to precast concrete or proprietary systems.

ICS 77.140.15; 77.140.60; 91.100.30  
Price code: 12  
Pages: 24

BOS 251-1: 2016 2nd ed.  
Furniture - Part 1: Seating - Specification  
This part of BOS 251 specifies the characteristics of seating. It covers the stability, strength and durability of seating other than school and outdoor seating. Ergonomic features of seating intended for use at a workstation, desk or table are covered. Requirements for the use of low-flammable textile fabrics are included. The toxicity aspect of the materials used in the manufacture of seating has not been taken into account (see Annex A).
Note: It is recommended that cognizance be taken of foreign standards when export of furniture is to be considered.

ICS 97.140  

BOS 251-2: 2016 2nd ed.  
**Furniture- Part 2: Desk, tables, and computer stands - Specification**  
This part of BOS 251 specifies the characteristics of desks, tables and computer stands. It includes workstation furniture and covers items that are freestanding and items that are integrated into office partitions.

Note: It is recommended that cognizance be taken of foreign standards when export of furniture is to be considered.

ICS 97.140  

BOS 251-3: 2007  
**Furniture- Part 3: Storage unit**  
This part of BOS 251 specifies the characteristics of storage units for use in domestic and office situations. It covers such items as sheet steel furniture, kitchen units, shelving, credenzas and chests of drawers. It does not cover such items as industrial racking and shelving.

Note: It is recommended that cognizance be taken of foreign standards when export of furniture is to be considered.

ICS 97.140  

BOS 251-4: 2007  
**Furniture – Part 4: Bunk beds for domestic use – Specification**  
This part of BOS 251 specifies the characteristics of bunk beds for domestic use. It covers bunk beds that can be converted to single beds and bunk beds that consist of a single elevated bed above, for example, a storage area. This part of BOS 251 does not cover mattresses.

ICS: 97.140  

BOS 251-5: 2007  
**Furniture – Part 5: High chairs for domestic use – Specification**  
This part of BOS 251 specifies the characteristics of children’s high chairs for domestic use. It covers high chairs that are also intended to convert to low chairs with separate or attached tables. This part of BOS 251 does not cover high chairs that convert to pushchairs, walking frames, car chairs or swings.

ICS: 97.140  

BOS 251-6: 2007  
**Furniture – Part 6: Children’s cots for domestic use – Specification**  
This part of BOS 251 specifies the characteristics of children’s cots for domestic use. It covers cots that are intended to prevent children from climbing out. This standard does not cover rocking, swinging or folding cots, nor does it cover cot mattresses.

ICS: 97.140  

BOS 252: 2007 see page 109

BOS 255:2007  
**Metallic hose assemblies for liquid petroleum gases and liquefied natural gases — Specification**  
Specifies requirements and test methods for metallic hose assemblies used for the loading and unloading of liquefied petroleum gases under pressure. The metallic hose assemblies are suitable for use at a pressure of 25 bar and temperatures from –200 °C to 70 °C.

ICS: 75.200  

Standards catalogue  

Updated: June 2018  

41
BOS 256:2007  Appliances operating on liquefied petroleum gas — Safety aspects
Covers the safety aspects of appliances that operate on liquefied petroleum gas at a consumption rate not exceeding 10 kg/h and used in conjunction with refillable petroleum gas (LPG) cylinders. It also covers the safety aspects where applicable of appliances that operate on natural gas.

ICS: 75.160.30  Price code: 22  Pages: 11

BOS 258: 2007  Wooden scaffold board - Specification
This standard specifies the requirements for four types of wooden scaffold board (see 4.1 and 3.10)

ICS: 79.040; 91.220  Price code: 12  Pages: 24

BOS 259: 2007  Wooden ceiling and panelling boards – Specification
This specification covers three grades of profiled boards (planed or planed and sanded) manufactured from hardwood or softwood timber and intended for use in ceilings and panelling.

ICS: 79.080; 91.060.30  Price code: 10  Pages: 20

This standard gives specifications for asbestos-free fibre cement manholes and inspection chambers for use in buried drains and sewers with gravity flow at atmospheric pressure.

Note: Complete manholes and prefabricated elements may not be used for other such as pumping stations, items of drainage, items for sewage treatment or sewage disposal, when corresponding additional requirements according to the relevant international standards are fulfilled.

ICS: 13.060; 93.030  Price code: 12  Pages: 24

BOS 262: 2011  Bottled natural water - Specification
This Botswana standard specifies the physical chemical and microbiological requirements for bottled natural water for human consumption, bottled at source. It also specifies permissible treatments and the requirements for bottling and labelling. The water may be offered as bottled non-carbonated (still) water or bottled carbonated (sparkling) water. This standard excludes water that contains sugar, sweeteners, flavourants or other additives.

ICS: 13.060.20  Price code: 8  Pages: 16

BOS 263: 2007  Precast concrete products- Street and garden furniture – Specification
This Botswana Standard specifies the requirements for street furniture and garden products in precast concrete. This kind of prefabricated, non-structural products and accessories can be used in public and private areas such as gardens, parks, foot-paths, squares, essentially for the landscaping, without, however, being subject to loads resulting from vehicle traffic. They can also be used for internal applications.

ICS: 91.100.30  Price code: 16  Pages: 36

BOS 264: 2007  Hexagonal steel wire mesh gabions and revet mattresses – Specification
This Botswana Standard specifies the characteristics of steel wire gabion cages of hexagonal woven wire mesh (that are to be used as gabions when filled with stones) and revet mattresses.

ICS: 77.140.65  Price code: 8  Pages: 16

BOS 265: 2007  Cast iron surface boxes and manhole and inspection covers and frames - Specification
This standard specifies the material, dimensional, mass, constructional and strength requirements for
a) fifteen types of cast iron manhole covers and frames,
b) eleven types of cast iron surface boxes (with covers) for meters, valves, stopcocks, and hydrants, and
c) two types of cast iron inspection covers and frames

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<td>77.080.10</td>
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**BOS 268: 2007 Fibre cement sheets (flat and profiled) – Specification**
This Botswana Standard specifies requirements for flat and profiled (straight and curved) sheets manufactured from fibre-cement.  
**Note:** Fibre-cement sheets should be used and fixed in accordance with the instructions of the relevant manufacturer, who will also be able to advise of the health risks involved and recommend precautions to be taken when working with the material. This standard does not cover coatings that are applied after the manufacture of the sheets.

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**BOS 269: 2008 The installation of wood and laminate flooring – Code of practice**
This Botswana Standard deals with the general principles of the installation of solid wood as well as suspended wood flooring.

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<td>79.040; 91.060.30</td>
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<td>68</td>
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**BOS 270: 2007 Monoplanar prefabricated timber roof trusses (nail-plated) – Specification**
This Botswana Standard specifies requirements for monoplanar prefabricated timber roof trusses assembled with nail plates. This standard is not applicable to bolted timber trusses manufactured on building sites.

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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* grown in Southern Africa.

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**BOS 272: 2013 Sweet pepper- Specification**
This Botswana standard applies to sweet pepper of varieties (cultivars) grown from *Capsicum annuum* L. Var. *Grossum* to be supplied fresh to the consumer.

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**BOS 276: 2008 High temperature wood preserving creosote- Specification**
This standard covers creosote that is derived entirely from coal tar produced by the high temperature carbonized of bituminous coal, and that is intended for use in the preservation of timber.

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**BOS 278: 2008 Thatched roof construction - Code of Practice**
This Botswana Standard covers the general requirements and methods of construction for thatched roofs of span not exceeding 6 m and supported by structural walls.  
**Note:** For spans exceeding 6 m or not supported by structural walls, a rational design approach should be considered (See SANS 10400, BOS 204-1 and BOS 204-2)

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**BOS 281: 2008 Natural stone – Sandstone building blocks – Specification**
This Botswana Standard specifies the requirements for sandstone building blocks cut from natural sandstone rock and used for building works.

ICS: 91.100.15 Price code: 8 Pages: 16

**BOS 282-1: 2008** Signs for street and property identification Part 1: Retro-reflective signs
This part of BOS 282 covers requirements for signs that are retro-reflective and that are used for the identification of streets and properties.

**Note:**
- a) Should any requirements of this part of BOS 282 conflict with statutory requirements, the later shall prevail.
  - b) The standards referred to in this part of BOS 282 are listed in Clause 2
  - c) Requirements that must be specified by the purchaser are listed in Annex A
  - d) Notes regarding signs for street and property identification are given in Annex B
  - e) Guidance on the verification of the quality signs produced to the requirements of this part of the specification is given in Annex C.
  - f) Except under a Certification Mark Scheme, assessment of compliance with the requirements of 4.5 requires special agreement between the manufacturer and the purchaser

ICS 93.080.30 Price code: 12 Pages: 24

**BOS 288-1: 2009** Woven household fabrics and articles Part 1: Basic requirements for piece-goods and made-up articles – Specification
This part of BOS 288 covers the definitions, basic requirements, requirements for packing, labelling, marking, and the inspection and testing of woven household fabric piece-goods and made-up articles. Specific requirements are covered by the relevant individual parts of BOS 288

ICS 59.080.30 Price code: 8 Pages: 16

This part of BOS 288 covers the specific requirements of three types of raised sheeting fabric, and articles in the form of winter sheets and pillowcases.

ICS 59.080.30 Price code: 10 Pages: 20

This Botswana Standard covers the specific requirements of four types of cotton sheeting fabric and articles in the form of sheets and pillowcases

ICS 59.080.30 Price code: 10 Pages: 20

This part of BOS 288 covers the specific requirements of six types of polyester-and-cotton sheeting fabric, and articles in the form of sheets and pillowcases.

ICS 59.080.30 Price code: 10 Pages: 20

**BOS 288-5: 2009** Woven household fabrics and articles Part 5: Terry towelling, towels, and other terry weave articles – Specification
This part of BOS 288 covers the specific requirements of five types of cotton terry towelling fabric, and articles in the form of bibs, face cloths, napkins, towels and bathmats.

ICS 59.080.30 Price code: 10 Pages: 20
This Botswana Standard covers the specific requirements of two types of cotton fabric suitable for curtaining.
ICS 59.080.30  Price code: 6  Pages: 12

BOS 288-7: 2009  Woven household fabrics and articles Part 7: Cotton curtain lining – Specification
This part of BOS 288 covers the specific requirements of two types of cotton fabric suitable for curtain linings.
ICS 59.080.30  Price code: 8  Pages: 16

BOS 288-8: 2009  Woven household fabrics and articles Part 8: Bedspread fabrics and bedspreads - Specification
This part of BOS 288 covers the specific requirements of three types of cotton fabric and articles in the form of bedspreads.
ICS 59.080.30  Price code: 10  Pages: 20

This Botswana Standard covers the specific requirements of one type of cotton flannelette fabric and articles in the form of dusters.
ICS 59.080.30  Price code: 8  Pages: 16

This Botswana Standard covers the specific requirements of two types of cotton fabric suitable for mattress ticking.
ICS 59.080.30  Price code: 8  Pages: 16

This part of BOS 288 covers the specific requirements of two types of cotton fabric and suitable for the use in the manufacture of feather pillows.
ICS 59.080.30  Price code: 8  Pages: 16

This part of BOS 288 covers the specific requirements of four types of cotton kitchen cloth fabric and made-up kitchen cloths.
ICS 59.080.30  Price code: 10  Pages: 20

This part of BOS 288 covers the specific requirements of one type of cotton huckaback towelling fabric and articles in the form of hemmed or roller towels.
ICS 59.080.30  Price code: 10  Pages: 20

This part of BOS 288 covers the specific requirements of three types of cotton fabric, and articles in the form of table cloths and table napkins.
This part of BOS 288 covers the specific requirements of three types of cotton fabric, and articles in the form of dishcloths.

This Botswana Standard covers requirements for the construction and performance of four types and three sizes of flush valves for WC flushing cisterns.

BOS 292: 2008  WC flushing systems (low flushing capacity) that operate with flushing cisterns – Specification
This Botswana Standard specifies requirements for the components, assembly and combined performance of WC flushing systems that operate in conjunction with cisterns that have stored water capacities of 6 litres and less.

Note: The major components of the system will be marked to indicate that they are intended to be used as part of a low-capacity flushing system. Although marked in this way, low flush pans covered by this standard could also be used effectively in conjunction with normal flushing cisterns (9 litres, 11 litres and 13 litres). However, low-capacity cisterns should not be installed in systems other than low-flushing systems.

BOS 293: 2008  WC flushing cisterns – Specification
This Botswana 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.

BOS 294: 2008  Indoor Venetian blinds – Specification
This Botswana Standard covers the dimensional and constructional requirements for Venetian blinds (other than black-out blinds), of area not exceeding 11.125m² and width not exceeding 4m, of the following types:
- type A: Blinds fitted with slats of width 50 mm
- type B: Blinds fitted with slats of width 35 mm
- type C: Blinds fitted with slats of width 25 mm

Note: Special auxiliary fittings and mechanisms are not covered by this specification and, if required, their construction, operation, method of attachment, etc. must be agreed upon between purchaser and supplier.

BOS 295: 2008  Classroom furniture – Specification
This standard covers the requirements for the materials, construction, finish and performance of tables, teachers’ desks, chairs and stools for use in classrooms.

This Botswana Standard specifies requirements for pet (cats and dogs) foods.
BOS 298: 2008  Cereals – Whole and dehulled pearl millet grains - Specification
This Botswana Standard applies to whole and dehulled pearl millet grains intended for human consumption, which is obtained from Pennisetum typhoides (sys. P. Americanum L.)
ICS: 67.060  Price code: 4  Pages: 8

BOS 300-1: 2009  Laboratory furniture and fittings Part 1 - Introduction
This Botswana Standard covers general safety considerations for laboratory furniture and fittings
ICS 97.140  Price code: 6  Pages: 12

BOS 300-2: 2009  Laboratory furniture and fittings Part 2 - Specification for performance
This Botswana Standard specifies strength and stability of laboratory furniture, and the performance of its exposed surface finishes. Additional requirements relating to work surfaces and surfaces likely to be exposed to wet conditions are also given.
Note:
- a) G general use
- b) H heavy use
- c) S severe use
These are related to the level of use and degree of care it is likely to receive in service. They are defined separately for strength and stability of the item of furniture and for the performance of its exposed surface finishes.
ICS 97.140  Price code: 20  Pages: 60

BOS 300-3: 2009  Laboratory furniture and fittings Part 3 - Recommendations for design
The Botswana Standard gives recommendations for the design of laboratory furniture and fittings that are specific to bench scale laboratories. Laboratory layout design is described in sufficient detail to illustrate the functional requirements of the furniture. The detail design of laboratories, however, is complex and outside the scope of this standard.
ICS 97.140  Price code: 12  Pages: 24

BOS 300-4: 2009  Laboratory furniture and fittings Part 4 - Recommendations
This Botswana Standard gives recommendations for the installation of laboratory furniture and fittings that are specific to bench scale laboratories
ICS 97.140  Price code: 10  Pages: 20

BOS 301: 2008  Dry pre-mix for mortar - Specification
This Botswana Standard covers the requirements for the dry pre-mix for floor screed mortar, plaster mortar and brick laying mortar; its constituent materials, batching and mixing equipment, production and packaging, testing, quality control, keeping of records and defines the responsibilities of the purchaser and the manufacturer.
ICS: 91.100.10  Price code: 8  Pages: 16

This Botswana Standard covers requirements for plastics safety glazing materials for use on Category M, N and O motors vehicles, excluding the windscreens of Category M or N motor vehicles.
ICS: 43.040.65; 83.140.20  Price code: 14  Pages: 32

This Botswana Standard covers incandescent tungsten filament lamps of the following categories for use in motor vehicles and trailers: R2, H1, H2, H3, H4, P21W, P21/5W, R5W, R10W, C5W, C18W, C21W, T4W, W3W and W5W. This Botswana Standard also covers other categories of lamp that are covered in SANS 20037.
This part of the specification covers the requirements for the photometric properties of headlights emitting an asymmetrical dipped beam or a main beam, or both, and used in headlight systems meeting left-hand rule-of-road requirements. As the requirements of this part of the specification are based on those given in ECE Regulations No. 1, No. 5, No. 8, No. 20 and No. 31, reciprocity of compliance of headlights with the relevant requirements can be assumed.

Note: Guidance on the verification of the quality headlights produced to this part of the specification, and a sampling plan to be used to assess compliance with the specification of a lot of headlights are given in Annex A.

BOS 303-3: 2008  Lights for motor vehicles - Part 3 - Secondary lights
This part of the specification covers the photometric characteristics of secondary lights for vehicles (see 3.1) (i.e. position lights, stop lights, direction-indicator lights, parking lights, rear registration-plate lights and end-outline marker lights) and of assemblies of these.

BOS 304: 2009 see page 109

BOS 305: 2009 see page 109

BOS 306: 2008  Bottled water – Code of hygiene practice
This code specifies appropriate general practices for collecting, processing, packaging, storing, and transporting bottled water for direct human consumption, including bottled natural water and bottled water either than natural water, so as to guarantee a safe and healthy wholesome product.

BOS 311: 2009  The manufacture and erection of lightweight metal trusses- Code of Practice
This Botswana standard gives guidance on the manufacture, erection and bracing of lightweight metal roof trusses.

This Botswana standard covers the requirements for built-in and free-standing steel kitchen unit cupboards made from sheet steel.

Note: Requirements that must be specified by the purchaser and those that must be agreed upon between supplier and the purchaser are listed in Annex A.

BOS 315: 2009  Stainless steel sit-on sinks with draining boards (for domestic use) – Specification
This Botswana standard covers material, dimensional, and constructional requirements for the stainless steel sinks with draining boards for domestic use.

Note: Requirements that are specified by the purchaser are listed in Annex A.

BOS 316: 2009  Mild steel nails - Specification
This Botswana Standard covers the requirements for wire and cut mild steel nails and tacks for general use, and eight types of wire nails for pneumatic gun nailers.
BOS 317: 2009  Coats and jackets (protective, unlined) – Specification
This Botswana Standard covers the requirements for the materials and make of jackets and three-quarter length and full length coats suitable for use by personnel employed in light industry and in the medical profession.

ICS: 13.340.10  Price Code: 10  Pages: 20

BOS 318: 2009  High foam laundry detergent – Specification
This Botswana Standard specifies characteristics of two types of powder laundry detergents intended for the washing (by hand and in domestic washing machines), in either hard or soft water, of textiles made of cotton and or synthetic fibre yarns.

ICS: 71.100.40  Price Code: 8  Pages: 16

BOS 319-8: 2010  Construction works – Part 8: Concrete works (structural)
This Botswana Standard covers concrete works related to the structural use of concrete in buildings and structures where the design and supervision of plain, reinforced, pre-stressed (by means of pre-tensioning or post-tensioning) and precast concrete are under the direct control of appropriately qualified engineers and technologists. It does not cover the structural use of concrete in piles, harbour and marine works, and underground works in mines.

ICS: 93.010  Price Code: 21  Pages: 64

BOS 319-9: 2010  Construction works – Part 9: Concrete works (minor works)
This Botswana Standard covers 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.

ICS: 93.010  Price Code: 12  Pages: 24

BOS 321:2014  Fixed electric storage water heaters – General Requirements
Specifies the characteristics of thermostatically controlled fixed electric storage water heaters intended for indoor and outdoor domestic use and for operation on a.c. supplies at voltages not exceeding 250 V for single phase and 480 V for other appliances.

This standard is also applicable to fixed electric storage water heaters used in conjunction with collectors for solar water heating.

ICS: 91.140.65  Price code: 20  Pages: 56

BOS 329-1: 2010  Steel tubes for non-pressure purposes Part 1: Sections for scaffolding, general engineering and structural applications
This part of BOS 329 covers the requirements for;
  a) tubes for scaffolding
  b) hollow sections for structural and general engineering purposes, and
  c) cold-drawn and cold-formed hollow sections made from welded or seamless tubes

ICS: 77.140.75; 91.080.10  Price Code: 12  Pages: 24

BOS 330-1: 2011  The design, erection, use and inspection of access scaffolding – Part 1: Steel access scaffolding
This part of BOS 330 covers the design, erection use and inspection of steel access scaffolding commonly used for supporting workers and materials, plant or equipment during construction, maintenance and demolition work.
This part of BOS 330 does not cover:
• Scaffolding for false work (i.e. where scaffolding materials are used primarily for temporary support of the works during construction).
• Industrial rope access work, which is covered by SANS 10333.
• Suspended scaffolding
• The use of scaffolding for construction of temporary seating stands and stages which are covered in SANS 1169.

ICS: 91.220  Price Code: 22  Pages: 68

**BOS 333: 2010  Burglar – resistant safes – Specification**
This Botswana Standard specifies requirements for eight categories of burglar-resistant safes.

**Note:** Requirements that must be specified by the purchaser and those that must be agreed upon between the supplier and the purchaser are listed in Annex A

ICS: 97.040.10  Price Code: 10  Pages: 20

**BOS 334: 2010  Servicing, repair and reconditioning of safes, strong room doors, vault doors and fire resistant equipment – Code of practice**
This Botswana Standard specifies requirements for servicing, repair and reconditioning of safes, strong room doors, vault doors and fire resistant equipment.

ICS: 13.310  Price Code: 6  Pages: 12

**BOS 337: 2012  Plastics material for food contact use – Specification**
This standard specifies requirements for materials and the procedure for use during the various stages of production of plastics materials, coating and printing of plastics items for food contact and subsequent use. This includes such items as packages, domestic containers, wrapping materials, utensils or any other plastics items intended for food contact applications.

ICS: 67.250  Price Code: 19  Pages: 52

**BOS 358: 2009  Low foam laundry detergent — Specification**
This Botswana Standard specifies characteristics of a powdered low – foam laundry detergent intended for the washing (using domestic washing machines), in either hard or soft water, of textiles made of cotton and or synthetic fibre yarns.

ICS: 71.100.40  Price code: 5  Pages: 10

**BOS 365: 2010  Drinking water for livestock and poultry – Specification**
This Botswana Standard specifies physical, chemical and microbiological requirements for water (including treated waste water) used for consumption by livestock and poultry.

ICS: 13.060.45  Price Code: 8  Pages: 16

**BOS 374: 2010  Ammoniated liquid detergent cleaner – Specification**
This Botswana Standard specifies characteristics of an ammoniated liquid detergent cleanser that has a mild abrasive action and is suitable for the cleaning of hard surfaces, but is not suitable (either concentrated or diluted) for the cleaning of floors that have a coating of polish.

ICS: 71.100.40  Price Code: 6  Pages: 12

**BOS 378: 2010  Concrete retaining blocks – Specification**
This standard specifies requirements for blocks made from concrete, which are dry stacked into a wall which is used to retain earth, sand or stone and other superimposed loads.

ICS: 93.010  Price Code: 10  Pages: 20
BOS 380: 2011  The construction of installation of vacuum sewerage system
This Botswana Standard provides guidance for construction and installation of vacuum sewerage systems. The sewerage system is applicable to the following situations:
   a) Areas with insufficient terrain slope;
   b) Connections to lower parts of buildings and locations;
   c) Locations with high ground water level;
   d) Locations with low population density
   e) Water preservation areas;
   f) Places where wastewater occurs only intermittently e.g. camp sites
ICS: 79.020       Price Code: 22       Pages: 68

BOS 385: 2012  The manufacture, production, processing and treatment of canned meat products - Specification
This standard specifies requirements for the manufacture, production, processing and treatment of canned meat products intended for human consumption.
ICS: 67.120.30     Price Code: 21       Pages: 64

BOS 393: 2010  Strong room and vault doors- Specification
This standard specifies six categories of strong room and vault doors that will also give protection against fire for a maximum period of 30 min.
ICS: 91.060.50     Price Code: 10       Pages: 20

BOS 394: 2010  Fire-resistant record protection equipment – Specification
This specification covers the requirements for four groups of fire resistant record protection equipment for the protection of paper records and magnetic storage media.
ICS: 13.220.20     Price Code: 8        Pages: 16

This standard specifies the requirements for two categories of strong rooms intended for the storage of firearms and their ammunition
ICS: 13.310        Price Code: 6        Pages: 12

BOS 396: 2010  Fire resisting door units for record rooms – Specification
This specification covers the requirements for metal fire resisting door units that are capable of passing a test in which they are gradually heated (over a period of 60 min) to a temperature of 945 °C and are then maintained at that temperature for 30 min.
ICS: 13.220.20 91.060.50     Price Code: 8        Pages: 16

BOS 397: 2010  Fire doors and fire shutters – Specification
This Botswana standard specifies requirements for six classes of fire-door and fire shutter assemblies that are intended to close permanent openings in walls or partitions, to provide a fire resistance for at least 30min in order to stop the spread of fire and to limit the spread of smoke. This standard does not apply to fire dampers.
ICS: 13.220.20 91.060.50     Price Code: 14       Pages: 32

BOS 404: 2010  The construction of strongrooms – Code of practice
This Botswana Standard gives recommendations for the construction of four categories of strongrooms.

Note: The recommendations given in the code should be regarded as the minimum standards to be used in construction.
ICS: 13.310        Price Code: 6        Pages: 12
**BOS 425: 2012**  
**Industrial boots (including safety boots) with direct-vulcanized soles and heels – Specification**  
This standard specifies the requirements for the materials and construction of industrial boots, including safety boots, made in accordance with the direct-vulcanized principle.

ICS: 61.060  
Price Code: 18  
Pages: 48

**BOS 426: 2012**  
**Industrial boots (including safety boots) with stuck-on pre-moulded or direct-injection-moulded soles and heels – Specification**  
This standard specifies the requirements for the materials and construction of industrial boots, including safety boots, made in accordance with the stuck-on pre-moulded or direct-injection-moulded principle.

ICS: 61.060  
Price Code: 17  
Pages: 44

**BOS 430: 2012**  
**Carrot – Grading requirements**  
This Botswana Standard specifies requirements for fresh carrots of varieties “or cultivars” grown from *Daucus carota* L, which are for direct human consumption and excludes carrots for industrial processing. It is intended to define the quality attributes of fresh carrots after harvesting and to grade them according to the different quality levels. It also covers the aspects of pesticides residue limits and post-harvest activities, all intended for marketing purposes.

ICS: 67.080.20  
Price Code: 6  
Pages: 12

**BOS 449: 2011 see page 109**

**BOS 450: 2011 see page 109**

**BOS 455: 2012**  
**Boiler suits and workwear suits – Specification**  
This standard specifies the requirements for the material, cut, make and trim of boiler suits and separate jackets and pairs of trousers of workwear suits.

ICS: 13.340.10  
Price Code: 14  
Pages: 32

**BOS 463: 2011**  
**Water quality for irrigation – Specification**  
This Botswana Standard specifies requirements for physical, chemical, biological and microbiological requirements of water used for irrigation purposes, irrespective of its source (domestic water, grey water, borehole, river, waste water etc.) whether it has been treated or not.

**Note:** The standard is intended to provide information to make judgements on the suitability of water to be used for irrigation purposes, primarily for crop production.

ICS: 13.060.20  
Price Code: 8  
Pages: 16

**BOS 471: 2012**  
**Butternut – grading requirements**  
This Botswana standard specifies requirements for the squash *Cucurbita moschata*, butternut type to be supplied fresh to the consumer. It excludes butternut squash for industrial processing or butternut that underwent post-harvest processing. This standard is intended to define the quality attributes of the above mentioned squash after harvesting and to grade it according to the different quality levels. It also covers aspects of pesticide residue limits and post-harvest activities all intended for marketing purposes.

ICS: 67.120.10  
Price Code: 6  
Pages: 12

**BOS 472: 2012**  
**Beekeeping and bee products – Code of practice**  
This Botswana Standard gives guidelines for the orderly conduct of beekeeping, for the improvement of the products of beekeeping and for the prevention and eradication of diseases and pests among them. It covers primary production of bee products of which include the following activities and practices:

a) Beehive management
b) Pest and disease control and veterinary treatments

ICS: 67.180.10 Price Code: 8 Pages: 16

BOS 473: 2011 Addictives in fruit and vegetable drinks and non-alcoholic drinks
– Specification
This Botswana Standard specifies requirements for use of addictives in fruit and vegetable drinks and non-alcoholic drinks.

ICS: 67.160.20 Price Code: 8 Pages: 16

BOS 489: 2011 Textured wall coatings, emulsion based, for interior and exterior use – Specifications
This Botswana Standard specifies requirements for general purpose pigmented wall coatings that have an emulsion base and are suitable for interior and exterior use. The coatings are intended for use on crazed concrete and plaster surfaces to obliterate hair-line cracks and to prevent their recurrence, on off-shutter concrete surfaces, brickwork, stone work and fibre cement.

ICS: 87.040 Price Code: 12 Pages: 24

BOS 498: 2012 Ambient air quality – Limits for common pollutants
This Botswana standard specifies limit values for common air pollutants to ensure that the negative effects of such pollutants on human health and the environment are prevented or reduced.
Note: Limit values for underground and air quality shall be as specified in the latest version of the Mines, Quarries, Works and Machinery Act of Botswana.

ICS: 13.020.10 Price Code: 16 Pages: 36

BOS 513-1: 2012 Conductors for overhead electrical transmission lines – Part 1: Copper wires and stranded copper conductors
This part of the specification applies to uninsulated, non-alloyed copper (in the annealed or in the hard-drawn condition) in the form of single wires or stranded conductors and intended use as
   a) Annealed jointing wire
   b) Annealed binding wire
   c) Hard-drawn circular wire for telecommunication purposes, and
   d) Stranded hard-drawn conductors for overhead transmission lines and overhead service connectors.
Note 1: Requirements that should be specified by the purchaser are listed in Annex A
Note 2: Assessment of compliance with the requirements of 4.2.1 and, in the case of stranded conductors, 5.1 requires special agreement between supplier and purchaser.

ICS: 29.240.20 Price Code: 10 Pages: 20

BOS 513-2: 2012 Conductors for overhead electrical transmission lines – Part 2: Stranded aluminium conductors
This part of the specification applies to uninsulated, hard drawn aluminium conductors for overhead transmission lines.

Note 1 Requirements that should be specified by the purchaser are listed in Annex A
Note 2 Assessment of compliance with the requirements of 4.1 and 5.1 requires special agreement between supplier and purchaser.

ICS: 29.240.20 Price Code: 10 Pages: 20

BOS 513-3: 2012 Conductors for overhead electrical transmission lines – Part 3: Aluminium conductors, steel reinforced
This part of BOS 513 specifies requirements for uninsulated stranded hard-drawn aluminium conductors, steel reinforced, for overhead transmission lines.

ICS: 29.240.20 Price Code: 8 Pages: 24
BOS 514: 2013  
Cultured marble sanitary ware – Specification
This Botswana Standard specifies requirements for cultured marble sanitary ware.

ICS: 91.140.70  
Price Code: 8  
Pages: 16

BOS 529-1: 2013  
Compressed earth building units Part 1: Kgalagadi sands building units – Specification
This Botswana Standard specifies requirements for Kgalagadi sand building units for use in masonry walling.

NOTE  
For the purpose of this standard, Kgalagadi sand shall be considered to have the same meaning as Kalahari sand.

ICS: 91.100.50  
Price Code: 13  
Pages: 28

BOS 529-2: 2013  
Compressed earth building units Part 2: Kgalagadi sand– Code of manufacturer
This Botswana Standard gives guidance on the manufacturing process of Kgalagadi sand building units for use in masonry walling.

ICS: 91.100.50  
Price Code: 8  
Pages: 16

BOS 531: 2012  
Beetroot – grading requirements
This Botswana standard applies to fresh beetroot of varieties “or cultivars” grown from Beta vulgaris variety cicla. L., of the Crass group, which are for direct human consumption and excludes beetroot for industrial processing. This standard specifies the quality attributes of fresh beetroots after harvesting and to grade them according to the different quality levels. It also covers aspects of pesticide residue limits and post-harvest activities all intended for marketing purposes

ICS: 67.120.10  
Price Code: 3  
Pages: 6

BOS 536-1:2014  
Basics of structural design and actions for buildings and Industrial structures – Part 1: Basis of structural design
1.1 Covers the basis of design and actions on building structures; and industrial structures utilizing structural systems similar to those of building structures.

This standard is also applicable to the structural appraisal of existing structures, for developing the design of repairs and alterations or for assessing changes of use.

1.2 It does not cover the following:

a) actions due to fire;

b) actions on structures subject to internal pressures from the contents (for example bunkers, silos, water tanks);

c) actions due to hydrodynamic effects;

d) actions on chimneys, towers and masts;

e) actions on bridges;

f) actions on special industrial structures; or

g) actions due to internal or external explosions (for example, from gas explosive materials).

ICS: 91.010.30  
Price code: 22  
Pages: 72
BOS 536-2:2014  Basics of structural design and actions for buildings and 
Industrial structures – Part 2: Self weight and imposed loads
This standard gives guidance on the design and actions for the structural design of buildings and 
industrial structures. It includes the following:

a) densities of construction materials and stored materials;
b) self – weight of construction works; and
c) imposed loads for buildings.

Where a building or structural member can be expected to be subject to actions not listed in here, 
the most appropriate information should be used.

This part of BOS 536 does not cover design situations and effects of actions in silos and tanks 
caused by water or other materials.

ICS: 91.010.30  Price code: 16  Pages: 36

BOS 536-3:2014  Basics of structural design and actions for buildings and 
Industrial structures – Part 3: Wind actions
The scope of application of this part of BOS 536 falls within the general scope of application as given in BOS 536-1.

Scope of BOS 536-3
1.2.1 This part of BOS 536 gives guidance on the determination of natural wind actions for the 
structural design of buildings and industrial structures including the entire structure, part of the structure, 
or elements attached to the structure.
1.2.2 This part of BOS 536 is intended to predict characteristic wind actions on land-based structures 
and includes the following:
■ buildings and structures with an overall height of up to 100 m;
■ elements of buildings and structures having a natural frequency greater than 5 Hz; and
■ chimneys with circular cross-sections, with heights of less than 60 m and a height to diameter ratio 
of less than 6.5.
1.2.3 This part of SANS BOS 536 does not cover the following structures:
   a) structures and buildings higher than 100 m;
   b) dynamic effects and design of dynamically sensitive structures (for example slender chimneys);
   c) off-shore structures;
   d) bridge structures;
   e) structures and buildings of unusual shapes;
   f) structures, or their components, which are not fixed permanently but are designed to accommodate 
      movement (for example, revolving antennas, telescope dishes and movable roofs);
   g) high risk structures (for example those containing nuclear or biological material); or
   h) transmission lines.
1.2.4 This part of BOS 536 does not cover wind loads and wind effects due to high intensity winds, 
for example, tornadoes or micro-bursts.

NOTE  The high intensity winds are particularly rare and localised events, therefore, having a very 
small probability of occurrence at specific geographical location. However, wind forces generated by 
short duration gusts can be significantly greater than those considered in the international standard 
design practice.

This part of BOS 536 does not cover designs assisted by testing and measurements where wind tunnel 
tests or properly validated numerical methods (or both), are used to obtained the load and response 
information, based on appropriate models of the structure, topography and the boundary-layer wind 
conditions.

NOTE  Design standards are not able to consider the infinite permutations and combinations of building 
forms used in the modern design. The degree of applicability of the generic information included in the 
loading code to specific cases of structures to be designed needs to be assessed. In cases in which 
the agreement between the loading code information and the structure to be designed is poor, it is 
advisable to seek expert advice or design by testing (or both).

This part of BOS 536 does not cover designs where the wind parameters appropriate to the specific 
site (for example a site which is significantly influenced by topography), as well as load response data 
have to be obtained from appropriate full-scale measurements.
NOTE In these cases the designer could consult appropriate standards such as EN 1991-1-4, or specialist literature.

ICS: 91.030 Price code: 24 Pages: 88

BOS 536-5:2014 Basics of structural design and actions for buildings and Industrial structures – Part 5: Basis for geotechnical design and actions
This part of BOS 536 sets out the basis for geotechnical design and gives guidance on the determination of geotechnical actions on buildings and industrial structures including

- vertical earth loading,
- earth pressure,
- ground water and free water pressure, and
- actions caused by ground movement.

The standard also gives procedures for determining representative values for geotechnical actions.

It does not cover the design of geotechnical structures such as slopes, embankments or free-standing retaining structures.

ICS: 91.010.30 Price code: 16 Pages: 40

BOS 536-6:2014 Basics of structural design and actions for buildings and Industrial structures – Part 6: Actions induced by cranes and machinery
This part of BOS 536 specifies imposed loads associated with overhead travelling bridge cranes on runway beams at the same level as well as the actions induced by stationary machinery.

The scope of application of BOS 536-6 falls within the general scope of application as given in BOS 536-1.

ICS: 91.010.30 Price code: 17 Pages: 44

BOS 536-8:2014 Basics of structural design and actions for buildings and Industrial structures – Part 8: Actions during execution
This part of BOS 536 gives general principles and rules for the determination of actions to be taken into account during the execution of buildings and industrial structures.

NOTE The allocation of responsibilities during the construction process forms part of the contractual documents for each individual project and are generally based on the responsibilities as assigned in appointments and contracts. Such responsibilities are therefore not implied in this part of BOS 536.

The standard may be used as guidance for the determination of actions to be taken into account for different types of construction works, including structural alterations such as refurbishment and partial or full demolition (see Annex A).

It gives rules for the determination of actions to be used for the design of auxiliary construction works needed for the execution of buildings and industrial structures.

This part of BOS 536 does not cover design rules for auxiliary construction works.

NOTE These design rules for auxiliary construction works may be defined for the individual project. Guidance may be found in European standards such as EN 12812.

Rules concerning safety of people in and around the construction site are out of the scope of this part of BOS 536. Such rules may be defined for the individual project in terms of the relevant national legislation (see foreword).

ICS: 91.010.30 Price code: 12 Pages: 24
BOS 544: 2013        Edible oils – Specification
This Botswana Standard specifies requirements for refined edible oils derived from oil seeds, oil-bearing fruit and any other edible oils of plant origin. These oils are suitable for use as cooking oils and salad oils.

ICS: 67.200.10        Price Code: 10        Pages: 20

BOS 563:2013        Distribution of transformers - Specification
1.1 This standard specifies requirements for single-phase and three-phase distribution transformers, including installation requirements of the oil-immersed type that
i) are category-sized in accordance with IEC 60076-1 up to and including 3 150 kVA,
j) have rated maximum voltages (Uₘ) that do not exceed 36 kV,
k) have uniformly insulated windings,
l) have a high-voltage and a low-voltage winding or, in the case of an auto-transformer, a series and
   a common winding and, in each case, if necessary, a stabilizing winding or an auxiliary winding, and
m) are suitable for off-circuit tap changing only.

NOTE Although distribution transformers are generally designed to receive power at a voltage that exceeds 3.3 kV and to deliver power to systems that have a nominal voltage of 230/400 V or 525 V, this standard covers transformers that have any combination of rated primary and secondary voltages.

1.2 This standard is not applicable to transformers that have more than two windings, other than those referred to in 1.1(d).

1.3 This standard applies to distribution transformers that are designed for use, at full continuous rating, under the conditions specified in IEC 60076-1 and also under the following conditions:
   n) at an altitude that does not exceed 1 800 m;
   o) at a system voltage frequency of 50 Hz; and
   p) under the conditions to which the electrical installations being served could be exposed.

NOTE Requirements that have to be specified by the purchaser and those that have to be agreed upon by the manufacturer and the purchaser are listed in Annex A.

ICS: 29.180          Price Code: 18        Pages: 48

BOS 572:2014        The application of soil insecticides for the protection of buildings
– Code of practice.
This standard gives directives for the effective application of soil insecticides to building sites to
protect buildings that are to be erected on the sites and to existing buildings (other than
wooden structures in contact with the ground) against subterranean wood-destroying termites.
It also gives guidance on the precautions to be taken when soil insecticides are handled, and
describes the action to be taken in the event of contamination or poisoning.

ICS: 65.100.10; 91.120.99    Price code: 12    Pages: 24

BOS 575: 2013        Maximum permissible limits for environmental noise
This Botswana Standard specifies limits for environmental noise expressed in decibels.
It is not applicable for noise in the occupational environment.

ICS: 17.140.01        Price Code: 8        Pages: 16

Specifies the requirements for two grades of automotive diesel fuel (low sulphur grade and
standard grade) suitable for use in compression-ignition engines, including high-speed engines

ICS: 75.160.20        Price code: 10    Pages: 16

BOS 577:2014        Unleaded petrol – Specification
Specifies requirements and test methods for marketed and delivered metal-free unleaded
petrol grades suitable for use in spark-ignition internal combustion engines excluding aviation
piston engines

ICS: 75.160.20        Price code: 12    Pages: 24
BOS 578:2014  Kerosene for domestic heating and illuminating – Specification
Specifies the requirements for a hydrocarbon fuel for use in wick-fed pressure vaporizing and other kerosene burning appliances for space heating, cooking and illumination

ICS: 75.160.20  Price code: 8  Pages: 16

BOS 580-1:2015  The petroleum industry — Part 1: Storage and distribution of petroleum products in above-ground bulk installations – Code of practice
This standard 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 which relevant standards exist.

ICS: 75.200  Price code: 24  Pages: 88

BOS 580-2:2015  The petroleum industry — Part 2: Electrical and other installations in the distribution and marketing sector – Code of practice
1.1 This part of BOS 580 covers the recommended safe practices in the design, construction, installation and maintenance of electrical, earthing and bonding systems intended to be used in flammable and combustible liquid storage, pumping, distribution and marketing facilities.
1.2 This part of BOS 580 does not cover the requirements for flammable dust. This standard also does not apply to refineries or exploration facilities, unless if any of these installations are similar to facilities listed in clause 1.1 above.

ICS: 75.200  Price code: 19  Pages: 52

BOS 580-3:2015  The petroleum industry — Part 3: The installation, modification, and decommissioning of underground storage tanks, pumps/dispensers and pipework at service stations and consumer installations – Code of practice
1.1 This part of BOS 580 covers provisions for the installation of underground storage tanks of individual capacity not exceeding 85 000 m³, pumps/dispensers and pipework at service stations and consumer installations.
1.2 This part of BOS 580 does not cover the installation of pressurized underground storage tanks such as liquefied petroleum gas (LPG) and compressed natural gas (CNG) storage vessels.

ICS: 75.200  Price code: 16  Pages: 40

BOS 582: 2013  Electric welded low carbon steel pipes for aqueous fluids (large bore) - Specification
This Botswana Standard covers three grades of carbon steel pipes of size 219.11 mm to 2 230 mm used in the conveyance of water and other aqueous fluids.

ICS: 77.140.75  Price Code: 10  Pages: 20

BOS 589-1:2014  Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/ 3 300 V) — Part 1: Packaging and marking — Requirements
1.1 This part of BOS 589 covers requirements for packing and marking, for single-core and multicore extruded solid dielectric insulated cables of rated operating voltage (U0/ U) in the range 300/500 V to 1 900/3 300 V, for use in fixed installations, as covered by BOS 589-2, and SANS 1507-3 to SANS 1507-6.
1.2 Specific requirements are given for a number of types of cables in common use. The types are as follows:
  - single-core and multicore cables, armoured and unarmoured;
  - multicore flat cables with and without an earth continuity conductor;
  - multicore round cables with aluminium / PVC laminate and an earth continuity conductor;
  - cables with concentric conductors;
  - cables with split concentric neutral and earth conductors;
panel/cubicle cables, excluding flexible cables and cords; and
insulated earth conductors.

1.3 This specification also covers cables that reduce the overall risk associated with fires.

ICS 29.060.20 Price code: 5 Pages: 9

BOS 589-2:2014 Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V) – Part 2: Wiring cable - Specification
This part of BOS 589 covers the requirements for construction, materials, dimensions and electric properties of unarmoured single-core and multicore extruded dielectric insulated cables with rated operating voltages (U0/U) and 600/1 000 V, up to and including a conductor cross-sectional area of 16 mm² for use in fixed installations.

This part of BOS 589 also covers the following specific types of cables:

a) insulated wire (600/1 000 V);
b) multicore flat and circular sheathed cables (300/500 V);
c) single-core unsheathed panel/cubicle cables (300/500 V); and
d) multicore round cables with aluminium/PVC laminate and an earth continuity conductor (300/500 V).

ICS 29.060.20 Price code: 10 Pages: 20

BOS 590: 2013 Head Lettuce – Specification
This Botswana standard applies to fresh head lettuce including crisp head and iceberg type lettuce, Lactuca sativa var. capitata L. to be supplied fresh to the customer. It does not apply to produce for industrial processing, produce presented as individual leaves, lettuce with root ball or lettuces in pots.

ICS: 67.080.20 Price Code: 6 Pages: 12

BOS 598-10:2016 Civil engineering test methods, Part 10: AVC (aggregate crushing value) and 10% Fact (fines aggregate crushing test) value of coarse aggregates

This specification covers the requirements for motor vehicle models of category M2 and M3, and minibuses, not previously registered or licensed in Botswana, designed or adapted for operation on a public road.

ICS: 43.080.20 Price code: 12 Pages: 24

BOS 613- 1: 2014 Conveyor belt idlers – Part 1: Troughed belt conveyor idlers (metallic and non- metallic) for idler roller rotational speeds of up to 750 revolutions per minute - Specification
This part of BOS 613 specifies the characteristics of conveyor belt idlers that have metallic or non- metallic rolls for belt widths of up to 2 400 mm and for rotational speeds of up to 750 revolutions per minute.

ICS: 53.040.20 Price Code: 14 Pages: 32

BOS 613- 2: 2014 Conveyor belt idlers - Part 2: Link suspended idlers and fixed- form suspended idlers (metallic and non- metallic) for idler roller rotational speeds of up to 750 revolutions per minute- Specification
This part of FDS 613 specifies requirements for link suspended conveyor belt idlers and fixed- form suspended idlers not included in FDS 613-1.

Note: initially, this part of FDS 613 will cover only equal roll 127 mm diameter series 25 idlers for link suspended idlers and fixed- form suspended idlers.

Standards catalogue Updated: June 2018
BOS 613-3:2014  Conveyor belt idlers – Part 3: Performance specifications for troughed belt conveyer idlers (metallic and non-metallic) for idler roller rotational speeds of up to 750 revolutions per minute
Specifies the performance specifications for troughed belt conveyer idlers that have metallic or non-metallic rolls for idler roller rotational speeds of up to 750 revolutions per minute for belt widths of up to and including 2400 mm.

BOS 618:2014  Ladies’ shoes, flat lasted, with stuck-on outer soles — Specification
Specifies the requirements for materials and construction for ladies’ shoes made in accordance with the flat-lasted stuck-on principle.

BOS 619:2014  Men’s flat lasted shoes, with stuck-on outer sole — Specification
Specifies the requirements for materials and construction for men’s shoes with stuck-on outer soles, made in accordance with the flat lasted principle.

BOS 622: 2014  Broccoli – Grading Requirements
This Botswana standard specifies grading requirements for broccoli (single heading or calabrese type) and covers varieties (cultivars) grown from Brassica oleracea var. italica Plenck to be supplied fresh to the consumer. Broccoli for industrial processing is excluded.

BOS 623: 2014  Cauliflower – Grading Requirements
This Botswana standard covers grading requirements for cauliflowers of varieties (cultivars) grown from Brassica oleracea var. botrytis L. to be supplied fresh to the consumer, cauliflowers for industrial processing being excluded.

BOS 626: 2016  Automotive biodiesel – Fatty Acid Methyl Esters (FAME) for diesel engines – Requirements and test methods
This 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 in accordance with the requirements of BOS 576. At 100 % concentration it is applicable to fuel for use in diesel engine vehicles designed or subsequently adapted to run on 100 % biodiesel.

NOTE  BOS 576 deals with automotive fuel for diesel engines.

BOS 628: 2015  High performance engine oil for petrol engines (for API service category SJ).
This standard covers one type of engine lubricating oil suitable for the crankcase lubrication of spark-ignition engines of passenger cars (naturally aspirated or turbo charged), light duty trucks and heavy duty trucks that operate under API service category SJ.

BOS 629: 2015  High performance engine oil for petrol engines (for API
service category SL).
This standard covers one type of engine lubricating oil suitable for the crankcase lubrication of spark-ignition engines of passenger cars (naturally aspirated or turbo charged), light duty trucks and heavy duty trucks that operate under API service category SL.

ICS: 75.100  Price Code: 10  Pages: 20

BOS 639: 2014  Leafy vegetables – Grading requirements
This Botswana standard applies to grading of varieties (cultivars) grown from Brassica oleracea var acephala (kales) Brassica napus (Rape), Brassica carinata (Ethiopian mustard), Brassica juncea (Mustard greens Leaf mustard, Brown mustard), Tsunga and Beta vulgaris var cicla to be supplied fresh to the customer. Leafy vegetables for industrial processing are excluded.

ICS: 67.080.20  Price Code: 6  Pages: 12

BOS 640: 2014  Cucumber – Grading Requirements
This standard applies to cucumbers of varieties (cultivars) grown from cucumis sativus L. To be supplied fresh to the customer, cucumbers for industrial processing and gherkins being excluded.

ICS: 67.080.20  Price Code: 6  Pages: 12

BOS 642:2014  Watermelons – Grading requirements
Specifies the requirements of watermelons of varieties (cultivars) grown from citrullus lanatus (Thunb.) to be supplied fresh to the consumer, watermelons for industrial processing being excluded.

ICS: 67.080.20  Price Code: 6  Pages: 12

BOS 656:2015  Chicken meat – Specification
This Botswana Standard applies to chicken meat from domestic fowls (Gallus domesticus) covering fresh and frozen meat at processing plant and until delivered to market.

ICS: 67.120.10  Price code: 4  Pages: 8

BOS 660: 2014  Jam, Jellies and Marmalades – Specification
This Botswana standard covers specification for jams, jellies and marmalades offered for direct consumption, including for catering purposes or for repacking if required by the purchaser. This Standard does not apply to:

a) products when indicated as being intended for further processing such as those intended for use in the manufacture of fine bakery wares, pastries or biscuits;

b) products which are clearly intended or labelled as intended for special dietary uses;

c) reduced sugar products or those with a very low sugar content;

d) products where the foodstuffs with sweetening properties have been replaced wholly or partially by food additive sweeteners.

ICS: 67.080.20  Price Code: 10  Pages: 20

BOS 670:2015  Good agricultural practices for horticulture – Code of practice
The GAP code covers the production, harvesting and post-harvest handling of fresh fruits and vegetables on farm and post-harvest handling in locations where produce is packed for sale. This code may be used for all types of production systems but it is NOT a standard for certification of organic products or GMO free products.

ICS: 67.080.20  Price Code: 14  Pages: 32
BOS 671:2014  Beeswax – Specification
This standard specifies the minimum requirements and methods of test for beeswax.
Price code: 9
ICS: 67.140.10

BOS 672: 2015  Bottled tomato sauce – Specifications
This Botswana standard prescribes the requirements and the method of test for tomato sauce.
ICS: 67.080.20

Specifies requirements and quality test methods of mageu for direct human consumption.
ICS: 67.160

BOS 681: 2015  Food grade salt – Specification
This standard 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 additive and/or nutrients.
ICS: 71.060.50

BOS 683: 2016  Pastry pies - Specification

BOS 686:2015  Requirements for a Hazard Analysis and Critical Control Point (HACCP) System
 Specifies the requirements for the development, implementation and maintenance of a HACCP system as a preventative system to enhance the safety of food.
ICS: 67.020

BOS 690: 2015  Food management System – Requirements for prerequisite programmes (PRPs)
This Botswana standard specifies the requirements for the development, implementation, maintenance and continual improvement of prerequisite programmes (PRPs) for food safety management.

Note: where exclusions are made or alternative measures implemented, these need to be justified by documented evidence. Any exclusions or alternative measures adopted should not affect the ability of the food handling organisation to comply with the requirements of this standard.
ICS: 67.020

BOS 696-2:2016  Flexible polyurethane foam sleeping mats and mattresses Part 2: foam mattresses for domestic and hotel use

BOS 701: 2016  Non-automatic fire-fighting systems in buildings – Code of practice

BOS 705: 2016  Steel tanks for flammable and combustible liquids – Specification
Specifies requirements for the design and construction of steel tanks for the storage of flammable and combustible liquids. It sets out requirements for tank joints and accessories (e.g. vents, manholes, fill level indicators) and specifies tank testing requirements.

It applies only to tanks that are used to store substances that are liquid at ambient temperatures and atmospheric pressures.
ICS: 23.020.10, 75.200

BOS 712:2017  Egg trays — Specification
This standard gives specification for egg trays made of raw materials, such as pulp, recycled pulp, plastic or recycled plastic, for transportation and storage of eggs (heinafter, “trays”).

ICS: 97.180, 97.145  Price code: 6  Pages: 12

BOS 720:2016  Sanitary appliances – Baths made from cross-linked cast acrylics sheets – Requirements and test methods

BOS 726:2017  Galvanized steel sheets (plain and corrugated) – Specification
Covers the requirements of plain and galvanized steel sheets and coils and corrugated galvanized sheets for roofing and cladding purposes.

ICS: 77.140.50  Price code: 10  Pages: 20

BOS 730: 2016  Workmanship on building sites – Sitework with insitu and precast concrete – Code of practice

BOS 731: 2016  Workmanship on building sites – Mixing and transporting concrete – Code of practice

BOS 735:2016  Banana – Grading Requirements

BOS 738: 2016  Workmanship on building sites – Cementitious levelling screeds and wearing screeds – Code of practice

BOS 741: 2016  Cereals – Barley grains – Specification

BOS 742: 2016  Cashew kernels – Specification

BOS 763:2016  Pear – Grading Requirements

BOS 766:2016  Sweet Potato – Grading Requirements

BOS 780:2017  Redeposition index of laundry detergent

BOS 781:2017  Fluorescent whitening agent fluorescence emission of laundry Detergent

BOS 793:2016  Cosmetics - Terms and definitions

This document follows the food chain from primary production to the final consumer, setting out the necessary hygiene conditions for producing food which is safe and suitable for consumption.

ICS: 67.020  Price Code: 14  Pages: 31

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Household and similar electrical appliances – Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliance

This International Standard deals with the safety of electric vacuum cleaners and water-suction cleaning appliances for household and similar purposes, including vacuum cleaners for animal grooming, their rated voltage being not more than 250 V. It also applies to centrally-sited vacuum cleaners and automatic battery-powered cleaners.

This standard also applies to motorized cleaning heads and current-carrying hoses associated with a particular vacuum cleaner.

Appliances not intended for normal household use, but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops and other premises for normal housekeeping purposes, are within the scope of this standard.

NOTE 101 – Examples of such appliances are appliances intended to be used for normal housekeeping purposes in hotels, offices, schools, hospitals and similar premises.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account persons (including children) whose

- physical, sensory or mental capabilities; or
- lack of experience and knowledge prevents them from using the appliance safely without supervision or instruction;
- children playing with the appliance

NOTE 102 Attention is drawn to the fact that
- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the natural water supply authorities and similar authorities.

NOTE 103 This standard does not apply to
- appliances intended exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- wet and dry vacuum cleaners, including power brush, for commercial use (IEC 60335-2-69).


This International Standard deals with the safety of electric dry irons and steam irons, including those with a separate water reservoir or boiler having a capacity not exceeding 5 L, for household and similar purposes, their rated voltage being not more than 250 V.

Appliances not intended for normal use, but which nevertheless may be source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances, which are encountered by all persons in and around the home. However, in general, it does not take into account
- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge prevents them from using the appliance safely without supervision or instruction;
- children playing with the appliance.

NOTE 101 Attention is drawn to the fact that
- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;
- additional requirements for pressure vessels may be specified by the national authorities responsible for safety of pressure vessels.

NOTE 102 This standard does not apply to
- ironers (IEC 60335-2-44);
- appliances designed exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as presence of a corrosive or explosive atmosphere (dust, vapour or gas).

IEC 60335-2-7:2012, Household and similar electrical appliances – Safety - Part 2-7: Particular requirements for washing machines

This International Standard deals with the safety of electric washing machines for household and similar use, that are intended for washing clothes and textiles, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

This standard also deals with the safety of electric washing machines for household and similar use employing an electrolyte instead of detergent. Additional requirement for these appliances are given in Annex CC.

NOTE 101 Guidance is given in Annex DD for requirements that may be used to ensure an acceptable level of protection against electrical and thermal hazards for washing machines fitted with a power driven wringer.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

NOTE 102 Examples of such appliances are washing machines for commercial use in blocks of flats or in launderettes.
As far as is practicable, this standard deals with the common hazards presented by washing machines that are encountered by all persons in and around the home. However, in general, it does not take into account
- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge
prevents them from using the appliance safety without supervision or instruction;
- children playing with the appliance.

NOTE 103 Attention is drawn to the fact that
- for washing machines intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

NOTE 104 This standard does not apply to
- washing machines intended exclusively for industrial purposes (ISO 10472-2);
- appliances intended to be used in locations where special conditions prevail, such as the presence of corrosive or explosive atmosphere (dust, vapour or gas).

This International Standard deals with the safety of electric deep fat fryers having a recommended maximum quantity of oil not exceeding 5 L, frying pans, woks an other appliances in which oil is used for cooking, and intended for household use and similar use, their rated voltage being not more than 250 V.
Appliances intended for normal household and similar use and that may also be used by laymen in shops, in light industry and on farms are within scope of this standard. However, if the appliance is intended to be used professionally to process food for commercial consumption, the appliance is not considered to be for household and similar use only.
- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge
prevents them from using the appliance safety without supervision or instruction;
- children playing with the appliance.

NOTE 101 Attention is drawn to the fact that
- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

NOTE 102 This standard does not apply to
- deep fat fryers for commercial use (IEC 60335-2-37);
- commercial multi-purpose cooking pans (IEC 60335-2-39);
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour and gas).

IEC 60335-2-14:2012, Household and similar electrical appliances – Safety - Part 2-14: Particular requirements for kitchen machines
This International Standard deals with the safety of electric kitchen machines for household and similar purposes, their rated voltage being not more than 250 V.

NOTE 101 Examples of appliances within the scope of this standard are
- bean slicers;
- berry-juice extractors;
- blenders;
- can openers;
- centrifugal juicers;
- churns;
- citrus-fruit squeezer;
- coffee-mills not exceeding 500 g hopper capacity;
- cream whippers;
- egg beaters;
- food mixers;
- food processors;
- grain grinders not exceeding 3 l hopper capacity;
- graters;
- ice-cream machines, including those for use in refrigerators and freezers;
- knife sharpeners;
- knives
- mincers;
- noodle makers;
- potato peelers;
- shredders;
- sleving machines;
- slicing machines.

Appliances intended for normal household and similar use and that may also be used by laymen in shops, in light industry and on farms are within scope of this standard. However, if the appliance is intended to be used professionally to process food for commercial consumption, the appliance is not considered to be for household and similar use only.

NOTE 102 Use of a kitchen machine in a bed and breakfast premises, for example, is considered to be household use.

As far as practicable, this standard deals with the common hazards presented by appliances which are encountered by all persons in and around the home. However, in general, it does not take into account:
- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge
prevents them from using the appliance safety without supervision or instruction;
- children playing with the appliance.

NOTE 103 Attention is drawn to the fact that
- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

NOTE 104 This standard does not apply to
- slicing machines having a circular knife the blade of which is inclined at an angle exceeding 45° to the vertical;
- food waste disposers (IEC 60335-2-16);
- ice-cream appliances with incorporated motor compressors (IEC 60335-2-24);
- kitchen machines intended for commercial purposes (IEC 60335-2-64
- kitchen machines intended for industrial purposes;
- kitchen machines intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour and gas).


This International Standard deals with the safety of the following appliances, their rated voltage being not more than 250 V for single-phase appliances, 480 V for other appliances and 24 V d.c. for appliances when battery operated.
- refrigerating appliances for household and similar use;
- ice-makers incorporating a motor-compressor and ice-makers intended to be incorporated in frozen food storage compartments;
- refrigerating appliances and ice-makers for use in camping, touring caravans and boats for leisure purposes.

These appliances may be operated from the mains, from a separate battery or operated either from the mains or from a separate battery.

This standard also deals with the safety of ice-cream appliances intended for household use, their rated voltage being not more than 250 V for single-phase and 480 V for other appliances.

It also deals with compression-type appliances for household and similar use, which use flammable refrigerants.
This standard does not cover features of the construction and operation of those refrigerating appliances which are dealt with in other IEC standards. Refrigerating appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as - refrigerating appliances used in staff kitchen areas in shops, offices and other working environments, - refrigerating appliances used in farm houses and by clients in hotels, motels and other residential type environments. - refrigerating appliances used in bed and breakfast type environments, and - refrigerating appliances used in catering and similar non-retail applications are within the scope of this standard. As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account - persons (including children) whose  • physical, sensory or mental capabilities; or  • lack of experience and knowledge prevents them from using the appliance safely without supervision or instruction; -children playing with the appliance. NOTE 1 Attention is drawn to the fact that -for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary; -in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities. NOTE 2 This standard does not apply to -appliances intended to be used in the open air; -appliances designed exclusively for industrial purposes; -appliances intended to be used in locations, where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas); -appliances incorporating a battery intended as a power supply for the refrigerating function; -appliances assembled on site by the installer; -appliances with remote motor-compressors; -motor-compressors (IEC 60335-2-34); -commercial dispensing appliances and vending appliances (IEC 60335-2-75); -commercial refrigerators and freezers used for the display of food products, including beverages, for retail sale (IEC 60335-2-89); -commercial ice-cream appliances.

IEC 60335-2-25:2010, Household and similar electrical appliances – Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens

This International Standard deals with the safety of microwave ovens for household and similar use, their rated voltage being not more than 250 V. This Standard also deals with combination microwave ovens, for which Annex AA is applicable. This Standard also deals with microwave ovens intended to be used on boardships, for which Annex BB is applicable. Appliances not intended for normal house hold use but which nevertheless may be a source of danger to the public, such as appliances intended to be used by layman in shops, in light industry and on farms, are within the scope of this standard. However, if the standard is intended to be used professionally to process food for commercial purposes, the appliance is not considered to be for household and similar use only. As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account - persons (including children) whose  • physical, sensory or mental capabilities; or  • lack of experience and knowledge prevents them from using the appliance safely without supervision or instruction -children playing with the appliance. NOTE 101 Attention is drawn to the fact that - for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary:
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

NOTE 102 This standard does not apply to
- commercial microwave ovens (IEC 60335-2-90)
- industrial microwave heating equipment (IEC 60519-6)
- appliances for medical purposes (IEC 60601)
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive and explosive atmosphere (dust, vapour or gas).


This International Standard deals with the safety of electric room heaters for household and similar purposes, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.

NOTE 101 Examples of appliances that are within the scope the scope of this standard are
- convector heaters;
- fan heaters;
- liquid-filled radiators;
- panel heaters;
- radiant heaters;
- tubular heaters;
- ceiling mounted heat lamp appliances.

For extraction fans of ceiling mounted heat lamp appliances, IEC 60335-2-80 is applicable as far as is reasonable.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account
- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge
prevents them from using the appliance safely without supervision or instruction
- children playing with the appliance.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;
- for appliances intended to be used in the presence of combustible dust, for example in barns or stables, additional requirements may be necessary.

NOTE 103 This standard does not apply to
- appliances intended exclusively for industrial purposes;
- appliances intended to be used where special conditions prevail, such as the presence of corrosive or explosive atmosphere (dust, vapour or gas);
- heaters that are built into air conditioners (IEC 60335-2-40);
- clothes dryers and towel rails (IEC 60335-2-43);
- heaters for saunas (IEC 60335-2-53);
- thermal-storage room heaters (IEC 60335-2-61);
- heating appliances for breeding and rearing animals (IEC 60335-2-71);
- foot warmers and heating mats (IEC 60335-2-81);
- flexible sheet heating elements for room heating (IEC 60335-2-96);
- heated carpets;
- central heating systems;
- heating cables (IEC 60800).

This International Standard deals with the safety of electric instantaneous water heaters for household and similar purposes and intended for heating water below boiling temperature, their rated voltage being not more than 250 V for single-phase appliance and 480 V for other appliances.
NOTE 101 instantaneous water heaters incorporating bare heating elements are within the scope of the standard.
Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended for use in shops, in light industry and on farms, are within the scope of this standard.
As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account:
- persons (including children) whose:
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge prevents them from using the appliance safely without supervision or instruction
- children playing with the appliance.
NOTE 102 Attention is drawn to the fact that:
- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries, additional requirements are specified by the national health authorities, national authorities responsible for the protection of labour and similar authorities;
- in many countries regulations exist for the installation of equipment connected to the water mains.
NOTE 103 This standard does not apply to:
- appliances for heating liquids (IEC 60335-2-15);
- storage water heaters (IEC 60335-2-21);
- appliances intended exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- commercial dispensing appliances and vending machines (IEC 60335-2-75).

This International Standard deals with the safety of electric fans for household and similar purposes, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.
NOTE 101 Examples of fans that are within the scope of this standard are:
- ceiling fans;
- duct fans;
- partition fans;
- pedestal fans;
- table fans.
This standard also applies to separate controls supplied with fans.
Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended for use in shops, in light industry and on farms, are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account:
- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge
  prevents them from using the appliance safely without supervision or instruction
- children playing with the appliance.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;

NOTE 103 This standard does not apply to
- appliances intended exclusively for industrial purposes;

- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);

- fans incorporated in other appliances

IEC 60335-2-91:2008, Household and similar electrical appliances – Safety - Part 2-91: Particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers

This International Standard deals with the safety of electric powered walk-behind and hand-held lawn trimmers and lawn edge trimmers, with cutting element(s) of non-metallic filament line or freely pivoting non-metallic cutter(s), with a kinetic energy of not more than 10 J each, used by a standing operator for cutting grass, their rated voltage not being not more than 250 V for a.c. or 50 V d.c.

In this standard, hand-held and walk-behind lawn trimmers and lawn edge trimmers are referred to collectively as trimmer(s).

So far as is practicable, this standard deals with the common hazards presented by trimmers which are encountered by all persons in the normal use and reasonably foreseeable misuse of the trimmers.

NOTE 101 Attention is drawn to the fact that in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities.

This standard does not apply to
- scissor type or lawn trimmers and lawn edge trimmers with cutting means other than those described above;
- self-propelled lawn trimmers or lawn edge trimmers;
- lawn trimmers or lawn edge trimmers which do not have a distance of at least 600 mm between the cutting means control and the cutting head;
- battery-powered trimmers fitted with batteries that have to be removed for charging.

NOTE 102 Requirements for tools with this type of battery can be found in Annexes K and L of IEC 60745-1.

EMC and environmental aspects, except noise, have not been considered in this standard.

NOTE 103 The method of calculating the kinetic energy for the purposes of this standard is given in 22.103.

IEC 60745-2-1:2008, Hand-held motor-operated electric tools – Safety – Part 2-1: Particular requirements for drills and impact drills

This part of IEC 60745 deals with the safety of hand-held motor-operated or magnetically driven electric tools, the rated voltage of the tools being not more than 250 V for single-phase a.c. or d.c. tools, and 440 V for three-phase a.c. tools.

So far as is practicable, this standard deals with the common hazards presented by hand-held tools which are encountered by all persons in the normal use and reasonably foreseeable misuse of the tools.
Tools with an electric heating element are within the scope of this standard. They should also comply with relevant parts of IEC 60335.

Requirements for motors not isolated from the supply, and having basic insulation not designed for the rated voltage of the tools, are given in Annex B. Requirements for rechargeable battery-powered motor-operated or magnetically driven tools and the battery packs for such tools are given in Annex K. Those for such tools that are also operated and/or charged directly from the mains or a non-isolated source are given in Annex L.

Handheld electric tools, hereinafter referred to as tools, which can be mounted on a support or working stand for use as fixed tools without any alteration of the tool itself, are within the scope of this standard. Requirements for such supports or working stands are given in Annex M.

This standard does not apply to:
- hand-held tools intended to be used in the presence of explosive atmosphere (dust, vapour or gas);
- hand-held tools used for preparing and processing food;
- hand-held tools for medical purposes (IEC 60601);
- hand-held tools which are covered by IEC 60335-2-45.

For hand-held tools intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary.

For hand-held tools intended to be used in tropical countries, special requirements may be necessary. NOTE Attention is drawn to the fact that in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities, etc.

This standard applies to drills and impact drills.

IEC 60947-3:2012, Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units

This part of IEC 60947 applies to switches, disconnectors, switch-disconnectors and fuse-combination units to be used in distribution circuits and motor circuits of which the rated voltage does not exceed 1 000 V a.c. or 1 500 V d.c.

The manufacturer shall specify the type, ratings and characteristics according to the relevant standard of any incorporated fuses.

This part does not apply to equipment coming within the scope of IEC 60947-2, IEC 60947-4-1 and IEC 60947-5-1; however, when switches and fuse-combination units coming into the scope of this part are normally used to start, accelerate and/or stop an individual motor they shall also comply with the additional requirements given in Annex A.

The requirements for single pole operated three pole switches are included in Annex C.

Auxiliary switches fitted to equipment within the scope of this part shall comply with the requirements of IEC 60947-5-1.

This part does not include the additional requirements necessary for electrical apparatus for explosive gas atmospheres.

NOTE 1 Depending on its design, a switch (or disconnector) can be referred to as “a rotary switch (disconnecter),” “cam-operated switch (disconnecter),” “knife-switch (disconnecter),” etc.

NOTE 2 In this part, the word “switch” also applies to the apparatus referred to in French as “commutateurs”, intended to modify the connections between several circuits and inter alia to substitute a part of a circuit for another.

NOTE 3 In general, throughout this part switches, disconnectors, switch-disconnectors and fuse-combination units will be referred to as “equipment”.

The object of this part is to state
a) the characteristics of the equipment;
b) the conditions with which the equipment shall comply with reference to
1) operation and behaviour in normal service;
2) operation and behaviour in case of specified abnormal conditions, e.g. short circuit;
3) dielectric properties;
c) the tests for confirming that these conditions have been met and the methods to be adopted for these tests;
d) the information to be marked on the equipment or made available by the manufacturer, e.g. in the catalogue.

IEC 60947-2:2013, Low-voltage switchgear and controlgear – Part 2: Circuit-breakers
This standard applies to circuit-breakers, the main contacts of which are intended to be connected to circuits, the rated voltage of which does not exceed 1 000 V a.c. or 1 500 V d.c.; It also contains additional requirements for internally fused circuit-breakers.

It applies whatever the rated currents, the method of construction or the proposed applications of the circuit-breakers may be.

The requirements for circuit-breakers which are also intended to provide earth-leakage protection are contained in Annex B.

The additional requirements for circuit-breakers with electronic over-current protection are contained in Annex F.

The additional requirements for circuit-breakers for IT systems are contained in Annex H.

The requirements and test methods for electromagnetic compatibility of circuit-breakers are contained in Annex J.

The requirements for circuit-breakers not fulfilling the requirements for over-current protection are contained in Annex L.

The requirements for modular residual current devices (without integral current breaking device) are contained in Annex M.

The requirements and test methods for electromagnetic compatibility of circuit-breaker auxiliaries are contained in Annex N.

Supplementary requirements for circuit-breakers for the protection of wiring installations in buildings and similar applications, and designed for use by un instructed persons, are contained in IEC 60898.

The requirements for circuit-breakers for equipment (for example electrical appliances) are contained in IEC 60934.

For certain specific applications (for example traction, rolling mills, marine service) particular or additional requirements may be necessary.

NOTE - Circuit-breakers which are dealt with in this standard may be provided with devices for automatic opening under predetermined conditions other than those of over-current and under voltage as, for example, reversal of power or current. This standard does not deal with the verification of operation under such pre-determined conditions.

The object of this standard is to state:

a) the characteristics of circuit-breakers;
b) the condition with which circuit-breakers shall comply with reference to:
   1) operation and behaviour in normal service;
   2) operation and behaviour in case of overload and operation and behaviour in case of short-circuit, including co-ordination in service (discrimination and back-up protection);
   3) dielectric properties;
c) tests intended for confirming that these conditions have been met and the methods to be adopted for these tests;
d) information to be marked on or given with the apparatus.

Number of pages: 218

IEC 60335-2-6:2014, Household and similar electrical appliances – Safety - Part 2-6: Particular requirements for stationary cooking

This International Standard deals with the safety of stationary electric ranges, hobs, ovens, and similar appliances for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.
This International Standard also includes some requirements for ovens that are intended to be used on board ships.

NOTE 101 Examples of appliances that are within the scope of this standard are

- griddles;
- grills;
- induction hobs;
- induction wok elements
- pyrolytic self-cleaning ovens;
- steam ovens

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account
- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge
prevents them from using the appliance safely without supervision or instruction
- children playing with the appliance.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;

- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

NOTE 103 This standard does not apply to
- appliances intended for commercial catering;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);

- grills, toasters and similar portable cooking appliances (IEC 60335-2-9);
- microwave ovens (IEC 60335-2-25).


This International Standard deals with the safety of electric portable appliances for household and similar purposes that have a cooking function such as baking, roasting and grilling, their rated voltage being not more than 250 V.

NOTE 101 Examples of appliances that are within the scope of this standard are

- barbecues for indoor use;
- breadmakers;
- candy floss appliances;
- contact grills (griddles);
- cooker;
- food dehydrators;
- hotplates;
- induction wok hotplates;
- pop-corn makers;
- portable ovens;
- raclette grills;
- radiant grills;
- roasters;
- rotary grills;
- rotisseries
- toasters
- waffle irons

Examples are illustrated in Figure 101

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended for use in shops, in light industry and on farms, are within the scope of this standard. However, if the standard is intended to be used professionally to process food for commercial purposes, the appliance is not considered to be for household and similar use only. As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account - persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge
prevents them from using the appliance safely without supervision or instruction
- children playing with the appliance.
NOTE 102 Attention is drawn to the fact that
- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;

NOTE 103 This standard does not apply to

- stationary ovens and stationary grills (IEC 60335-2-6);
- warming plates (IEC 60335-2-12);
- frying pans and deep fat fryers (IEC 60335-2-13);
- microwave ovens (IEC 60335-2-25);
- barbecues for outdoor use (IEC 60335-2-78);
- appliances intended to burn charcoal or similar combustible fuels;
- appliances intended for commercial catering;
- appliances intended to be used in locations, where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

This part of IEC 60335 deals with the safety of electric heat pumps, including sanitary hot water heat pumps, air conditioners and dehumidifiers incorporating motor-compressors and hydronic room fan coils, their maximum rated voltages being not more than 250 V for single phase appliances and 600 V for all other appliances.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended for use in shops, in light industry and on farms, are within the scope of this standard.

This standard also applies to electric heat pumps, air conditioners and dehumidifiers containing flammable refrigerant. Flammable refrigerants are defined in 3.121.

The appliances referenced above may consist of one or more factory made assemblies. If provided in more than one assembly, the separate assemblies are to be used together, and the requirements are based on the use of matched assemblies.

NOTE 101 A definition of ‘motor compressor’ is given in IEC 60335-2-34, which includes the statement that the term motor-compressor is used to designate either a hermetic motor-compressor or semi-hermetic motor-compressor.

NOTE 102 Requirements for refrigeration safety are covered by ISO 5149, and requirements for containers intended for storage of the heated water included in sanitary hot water heat pumps are, in addition covered by IEC 60335-2-21.

This standard does not take into account chemicals other than group A1, A2, or A3 as defined by ANSI/ASHRAE [ISO] classification.
This standard specifies particular requirements for the use of flammable refrigerants. Unless specifications are covered by this standard, including the annexes, requirements for refrigerating safety are covered by ISO 5149.

The sections and clauses in ISO 5149 of particular concern to this standard are as follows:
- Section 3: “Design and construction equipment” applies to all appliances and systems.
- Section 4: “Requirements for utilization” applies to appliances and systems which are for “similar electric appliances”, i.e. commercial and light industrial.
- Section 5: “Operating procedures” applies to appliances and systems which are for “similar electric appliances”, i.e. commercial and light industrial.

Supplementary heaters, or a provision for their separate installation, are within the scope of this standard, but only heaters which are designed as a part of the appliance package, the controls being incorporated in the appliance.

NOTE 103 Attention is drawn to the fact that
- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- for appliances subjected to pressure, additional requirements may be necessary;
- in many countries, additional requirements are specified by the national health authorities responsible for the protection of labour and national authorities responsible for storage, transportation, building constructions and installations.

NOTE 104 This standard does not apply to
- humidifiers intended for use with heating and cooling equipment (IEC 60335-2-88);
- appliances designed exclusively for industrial processing;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

This International Standard deals with the safety of fixed electric immersion heaters for household and similar purposes that are intended for installation in a water tank open to the atmosphere for heating water to a temperature below its boiling point. The rated voltage is not more than 250 V for single-phase appliances and 480 V for other appliances.

NOTE 101 The water tank may have alternative means for heating water, such as circulation of hot water supplied from a separate boiler.

NOTE 102 Immersion heaters having a rated power input up to 25 kW for incorporation as an alternative heating source in central heating boilers are also within the scope of this standard.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended for use in shops, in light industry and on farms, are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account
- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledge
prevents them from using the appliance safely without supervision or instruction
- children playing with the appliance.

NOTE 103 Attention is drawn to the fact that
- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;
NOTE 104 This standard does not apply to
- appliances designed exclusively for industrial purposes;
- appliances intended to be used in locations, where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- heating elements incorporated in appliances such as
  - appliances for heating liquids (IEC 60335-2-15);
  - storage water heaters (IEC 60335-2-21);
  - instantaneous water heaters (IEC 60335-2-35);
- aquarium heaters (IEC 60335-2-55);
- portable immersion heaters (IEC 60335-2-74);
- engine preheaters such as those for cars and buses.

Number of pages: 12

IEC 60118-7: 1983  Hearing aids – Part 7: Measurement of the performance characteristics of hearing aids for quality inspection for delivery purposes

Gives recommendations for the measurement of performance characteristics of air-conduction hearing aids of a particular model for the purpose of comparing measured properties with those specified by the manufacturer. Describes practical reproducible methods for determining the compliance of a limited number of electroacoustical and electrical characteristics of delivered hearing aids with nominal performance data supplied by the manufacturer.

ICS: 17.140.50  Price code: 16  Pages: 36

IEC 60227-2: Ed. 2.1: 2003  Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 2: Test methods.

The methods of carrying out the tests specified in all parts of IEC 60227 are given in this part and in IEC 60332-1, 60811 and 60885.

ICS: 29.060.20  Price code: 12  Pages: 24

IEC 60227-3: Ed. 2.1: 1997  Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part3: Non-sheathed cables for fixed wiring.

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).

ICS: 29.060.20  Price code: 13  Pages: 28


Applicable to the safety of stationary electric cooking ranges, hobs, ovens and similar appliances, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

ICS: 97.040.20, 13.120  Price code: 18  Pages: 46


Deals with the safety of electric washing machines for household and similar purposes, intended for washing clothes and textiles. The rated voltage is not more than 250 V for single-phase appliances and 480 V for other appliances. It includes washing machines for communal use in blocks of flats and in laundrettes. Washing machines with a spin extraction function must comply with IEC 60335-2-4, and with a drying function must comply with IEC 60335-2-11.

ICS: 97.060, 13.120  Price code: 14  Pages: 32
This International Standard deals with the safety of electric floor treatment and wet scrubbing machines intended for household and similar purposes, their rated voltage being not more than 250 V.

ICS: 77.080.10  Price code: 9  Pages: 18

This International Standard deals with the safety of electric clothes dryers for drying textiles on racks located in a warm airflow and to electric towel rails, for household and similar purposes, their rated voltage being not more than 250 V.

ICS: 77.080.10  Price code: 10  Pages: 20

This International Standard deals with the safety of electric oral hygiene appliances for household and similar purposes, their rated voltage being not more than 250 V. Examples of appliances covered in this standard include oral irrigators and toothbrushes.

ICS: 77.080.10  Price code: 9  Pages: 18

This International Standard deals with the safety of electric appliances for use with aquariums and garden ponds for household and similar purposes, their rated voltage being not more than 250 V. Examples of appliances covered in this standard include aerators, aquarium heaters, automatic food dispensers and sludge suction appliances.

ICS: 77.080.10  Price code: 10  Pages: 20

This International Standard deals with the safety of electric air cleaning appliances for household and similar purposes, their rated voltage being not more than 250 V for a single phase appliances and 480V for other appliances.

Appliances not intended for normal household use but that nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

As far as it is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account persons (including children) whose
- Physical, sensory or mental capabilities; or
- Lack of experience and knowledge
Prevents them from using the appliance safely without supervision or instruction; children playing with the appliance.

ICS: 77.080.10  Price code: 10  Pages: 20

IEC 60598-1- Ed. 6.0: 2014  Luminaires - Part 1: General requirements and tests
This Part 1 of International Standard IEC 60598 specifies general requirements for luminaires, incorporating electric light sources for operation from supply voltages up to 1 000 V. The requirements and related tests of this standard cover: classification, marking, mechanical construction and electrical construction.

ICS: 29.140.40  Price code: 25  Pages: 374

Standards catalogue  Updated: June 2018  80
IEC 60598-2-1: 1979  Luminaires – Part 2: Particular requirements – Section One – Fixed general purpose luminaires
Specifies requirements for fixed general purpose luminaires for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V.

ICS: 29.140.40  Price code: 8  Pages: 16

This part of IEC 60598 specifies requirements for floodlights for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V. It is to be read in conjunction with those sections of IEC 60598-1 to which reference is made.

ICS: 29.140.40  Price code: 14  Pages: 30

Specifies requirements for luminaires with built-in transformers for filament lamps, with supply voltages and output voltages not exceeding: 1 000 V for class I and class II luminaires and - 250 V for class 0 luminaires.

ICS: 29.140.40  Price code: 14  Pages: 30

IEC 60598-2-7-Ed.1.0: 1982  Luminaires – Part 2: Particular requirements – Section Seven – Portable luminaires for garden use
Specifies requirements for portable pedestal luminaires for use in places such as gardens and for portable luminaires for use in places such as flower beds, for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 250 V.

ICS: 29.140.40  Price code: 12  Pages: 26

IEC 60598-2-8:2013-Consol. Ed. 2.1 (incl. am1) Luminaires – Part 2-8: Particular requirements – Hand lamps
Specifies requirements for hand lamps and similar portable luminaires which are held in the hand when used, for use with tungsten filament and tubular fluorescent lamps on supply voltages not exceeding 250 V.

ICS: 29.140.40  Price code: 15  Pages: 34

Specifies requirements for photo and film luminaires (non-professional) for use with low-pressure tungsten halogen lamps, specified in IEC 60357.

ICS: 29.140.40  Price code: 15  Pages: 34

Specifies requirements for portable child-appealing luminaires for use with tungsten filament lamps on supply voltages not exceeding 24 V (SELV).

ICS: 29.140.40  Price code: 12  Pages: 26

IEC 60598-2-17: 1984 Luminaires – Part 2: Particular requirements – Section Seventeen – Luminaires for stage lighting, television and film studios (outdoor and indoor)
Specifies requirements for stage, television and film studio luminaires (including spot and floodlighting projectors), for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V.

ICS: 29.140.40  Price code: 14  Pages: 30
IEC 60598-2-18: 1993 Luminares – Part 2: Particular requirements – Section 18: Luminares for swimming pools and similar applications
Specifies requirements for fixed luminares intended for use in water, or in contact with water, for example in swimming pools, fountains, paddling pools, and garden pools, and for use with tungsten filament lamps.

ICS: 29.140.40  Price code: 9  Pages: 18

Specifies requirements for lighting chains fitted with series or parallel connected incandescent lamps for use indoors or outdoors on supply voltages not exceeding 250 V.

ICS: 29.140.40  Price code: 18  Pages: 48

This section of IEC 60598-2 specifies requirements for emergency lighting luminares for use with electrical light sources on emergency power supplies not exceeding 1 000 V.

ICS: 29.140.40  Price code: 19  Pages: 54

Specifies requirements for extra low voltage systems for filament lamps intended for ordinary use on supply voltages not exceeding 1 000 V. The luminares, being connected in parallel, are supplied via freely suspended continuous supporting conductors or profiles. The current in the output circuit of the system is limited to 25 A.

ICS: 29.140.40  Price code: 13  Pages: 28

Specifies requirements for luminares intended for use where the necessity of limited temperature on the outer surface exists, due to the risk of combustible dust accumulating on the luminares, but where the risk of explosion in the atmosphere does not exist. The luminares are for use with electric light sources on supply voltages not exceeding 1000 V.

ICS: 29.140.40  Price code: 13  Pages: 28

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".

ICS: 29.220.20  Price code: 13  Pages: 28

This part of IEC 60896 applies to all stationary lead-acid cells and monobloc batteries of the valve regulated type for float charge applications, (i.e. permanently connected to a load and to a d.c. power supply), in a static location (i.e. not generally intended to be moved from place to place) and incorporated into stationary equipment or installed in battery rooms for use in telecom, uninterruptible power supply (UPS), utility switching, emergency power or similar applications. The objective of this part of IEC 60896 is to specify the methods of test for all types and construction of valve regulated stationary lead acid cells and monobloc batteries used in standby power applications

ICS: 29.220.20  Price code: 18  Pages: 48

Requirements
This part of IEC 60896 applies to all stationary lead-acid cells and monobloc batteries of the valve regulated type for float charge applications, (i.e. permanently connected to a load and to a d.c. power supply), in a static location (i.e. not generally intended to be moved from place to place) and incorporated into stationary equipment or installed in battery rooms for use in telecom, uninterruptible power supply (UPS), utility switching, emergency power or similar applications. The objective of this part of IEC 60896 is to assist the specifier in the understanding of the purpose of each test contained within IEC 60896-21 and provide guidance on a suitable requirement that will result in the battery meeting the needs of a particular industry application and operational condition.

ICS: 29.220.20  Price code: 16  Pages: 36

IEC 61056-1: 2002  General purpose lead-acid batteries (Valve regulated types) –
General requirements and functional characteristics – Methods of test.
This part of IEC 61056 specifies the general requirements, functional characteristics and methods of test for all general purpose lead acid cells and batteries of the valve regulated type
- For either cyclic or float charge application
- In portable equipment, for instance, incorporated in tools, toys or in static emergency, or uninterruptible power supply and general power supplies

ICS: 29.220.20  Price code: 12  Pages: 24

IEC 61056-2: 2002  General purpose lead-acid (Valve regulated types) – Part 2:
Dimensions, terminals and marking
This part of IEC 61056 specifies the dimensions, terminals and marking for the general purpose lead- acid cells and batteries of the valve regulated type
- For either cyclic or float charge application
- In portable equipment, for instance, incorporated in tools, toys or in static emergency, or uninterruptible power supply and general power supplies

ICS: 29.220.20  Price code: 10  Pages: 20
BOS ISO 161-1: 1996  Thermoplastics pipes for the conveyance of fluids -- Nominal outside diameters and nominal pressures -- Part 1: Metric series
Specifies the nominal outside diameters for metric thermoplastics pipes for the conveyance of fluids under pressure and non-pressure. It also specifies nominal pressure ratings and minimum required strengths for pipes for pressure.
ICS: 23.040.20  Price code: 8  Pages: 16

BOS ISO 384:2015  Laboratory glass and plastics ware — Principles of design and construction of volumetric instruments
This International Standard sets out principles for the design of volumetric instruments manufactured from glass or from plastics in order to facilitate the most reliable and convenient use to the intended degree of accuracy.
ICS: 17.060

BOS ISO 385:2005  Laboratory glassware — Burettes
This International Standard provides metrological and construction requirements for an internationally acceptable series of burettes, suitable for general laboratory purposes. The details specified are in accordance with the principles of design and construction of volumetric glassware given in ISO 384.
For piston burettes, see ISO 8655-3.
ICS: 17.060

BOS ISO 648:2008  Laboratory glassware — Single-volume pipettes
This International Standard specifies metrological and constructional requirements for volumetric pipettes with one mark (total delivery) and for volumetric pipettes with two marks, both of which are adequate for general laboratory purposes.
ICS: 17.060

BOS ISO 707: 1997  Milk and milk products — Guidance on sampling
Guidance on methods of sampling milk and milk products for microbiological, chemical, physical and sensory analysis except for sampling of ex-farm milk from individual animals and sampling of milk within quality payment schemes.
ICS: 67.100.01  Price code: 18  Pages: 48

BOS ISO 730-1:1994  Agricultural wheeled tractors -- Rear-mounted three-point linkage -- Part 1: Categories 1, 2, 3 and 4
Cancels and replaces the second edition (ISO 730-1 (1990) and ISO 730-3 (1982)). Describes the dimensions and requirements of the three-point linkage for the attachment of implements or equipment to the rear of agricultural wheeled tractors. Specifies four categories to be used on different ranges of agricultural tractors.
ICS: 65.060.10  Price code: 10  Pages: 20

BOS ISO 730-2: 1979  Agricultural wheeled tractor – Rear-mounted three point linkage – Part 2: Category 1N (Narrow hitch)
This International Standard specifies the requirements for the attachment of implements or equipment to the rear of narrow agricultural wheeled tractors by means of a three-link hitch in association with a power lift.
ICS: 65.060. 0  Price code: 6  Pages: 12

Standards catalogue  Updated: June 2018
BOS ISO 789-1: 1990  Agricultural tractors -- Test procedures -- Part 1: Power tests for power take-off
This part is the first of a series of eight. Specifies procedure for determining the power available at the power take-off, drawbar and belt pulley on tractors. Contains definitions and permissible measurement tolerances. Annex A includes a specimen test report. The measurement of tyre tread is given in annex B.
ICS: 65.060.10  Price code: 8  Pages: 16

BOS ISO 789-2: 1993  Agricultural tractors -- Test procedures -- Part 2: Rear three-point linkage lifting capacity
Specifies test procedures for determining the lifting capacity of rear-mounted three-point linkage systems: a) the maximum vertical force which can be exerted by the hydraulic lift at the lower hitch points throughout their full range of movement; b) the maximum vertical force which can be exerted by the hydraulic lift, at a point 610 mm to the rear of the hitch points on a frame attached to the three-point linkage, throughout its full range of movement; c) optionally, the ability of the lifting system to maintain the load in the lifted position without hydraulic power.
ICS: 65.060.10  Price code: 6  Pages: 12

BOS ISO 789-6: 1982  Agricultural tractors -- Test procedures -- Part 6: Centre of gravity
Specifies a simple, practical method, which requires the use of a weighbridge and crane. Alternative methods may be used if they locate the centre of gravity with respect to the specified reference planes and within the specified tolerances. The method is applicable to tractors having at least axles fitted with wheels or tracks. Three figures illustrate the determination in the different coordinates. An annex gives the specimen test report.
ICS: 65.060.10  Price code: 6  Pages: 12

BOS ISO 835:2007  Laboratory glassware — Graduated pipettes
This International Standard specifies metrological and constructional requirements for graduated pipettes, adequate for general laboratory purposes.
The details specified are in conformity with the principles of design and construction of volumetric glassware given in ISO 384.
NOTE For one-mark pipettes, see ISO 648. For piston-operated pipettes, see ISO 8655-2.

BOS ISO 874: 1980  Fruits and vegetables — Sampling
This International Standard specifies a method of sampling fresh fruits and vegetables, forming the subject of international trade, with view to determining the quality or particular characteristics of the goods.
ICS: 67.080  Price code: 4  Pages: 8

BOS ISO 1000: 1992  SI units and recommendations for the use of their multiples and of certain other units
This International Standard describes the International System of units (in clauses 3, 4 and 6); recommends selected decimal multiples and sub-multiples of SI units for general use and gives certain other units which may be used with the International System of Units (in clauses 5 and 7, and Annex A); quotes the definitions of the SI base units (in annex B).
ICS: 01.060  Price code: 16  Pages: 38

BOS ISO 1042:1998  Laboratory glassware — One-mark volumetric flasks
This International Standard specifies requirements for an internationally acceptable series of one-mark volumetric flasks, suitable for general laboratory purposes.
The specifications in this International Standard are in conformity with ISO 384 and with OIML
Recommendation No. 4.

ICS: 17.060

**BOS ISO 1072:1975**  Solid wood parquet - General characteristics
This International Standard specifies – the manufacturing characteristics (Cross-section, dimensions, permissible deviations, etc.), the inspection and delivery conditions and the marking of solid wood parquet Strips with rectangular face of any species of wood.

ICS: 79.080

The reference method for the determination of the fat content of milk.

ICS 67.100.10  Price code: 10  Pages: 20

**BOS ISO 1324:1985**  Solid wood parquet - Classification of oak Strips
This International Standard establishes the classification, by quality, of non-assembled solid oak parquet Strips.

ICS: 79.080

**BOS ISO 1769:1975**  Laboratory glassware - Pipettes - Colour coding
This International Standard specifies a System of colour coding for one-mark pipettes for identification of nominal capacities, and for graduated pipettes for identification of nominal capacities and units of sub-division.

ICS: 17.060

**BOS ISO 1772:1975**  Laboratory crucibles in porcelain and silica
This International Standard specifies requirements for an internationally acceptable series of porcelain and silica crucibles and lids for general laboratory requirements.

ICS: 17.040.20

This part of ISO 1920 specifies procedures for the sampling of fresh concrete. The samples are used for the testing of properties of fresh concrete, or for making test specimens to determine the properties of hardened concrete.

Note: ISO 1920-1 specifies the properties of fresh concrete and ISO 1920-3 gives the procedures for making and curing test specimens.

ICS 91.100.30  Price code: 8  Pages: 16

This part of ISO 1920 specifies procedures for testing fresh concrete. It specifies the following test methods: determination of consistence (slump test, Vebe test, degree of compatibility, flow-table test and for high-fluidity concrete, the slump-flow test), determination of fresh density and determination of air content by the pressure-gauge method and by the water-column method.

ICS 91.100.30  Price code: 22  Pages: 68

This part of ISO 1920 specifies the shape and dimensions of concrete test specimens for strength tests and the methods of making and curing these test specimens.

ICS 91.100.30  Price code: 14  Pages: 32

This part of ISO 1920 specifies procedures for testing the strength of hardened concrete.
ICS 91.100.30  
BOS ISO 1920-5: 2004  
Testing of concrete - Part 5: Properties of hardened concrete other than strength

This part of ISO 1920 specifies procedures for testing properties of hardened concrete other than strength.

ICS 91.100.30  
BOS ISO 1920-6: 2004  
Testing of concrete - Part 6: Sampling, preparation and testing of concrete cores

This part of ISO 1920 specifies a method for taking cores from hardened concrete, their examination, preparation for testing and determination of compressive strength. The part of ISO 1920 does not give guidance on the decision to drill cores or on the locations for drilling nor does it provide procedures for interpreting the core strength results.

Note: It is recommended that before coring, full agreement should be reached by all parties on the need for core testing and how the results should be interpreted.

ICS 91.100.30  
BOS ISO 1920-7: 2004  
Testing of concrete Part 7: Non-destructive tests on hardened concrete

This part of ISO 1920 specifies non-destructive test methods for use on hardened concrete.

ICS 91.100.30  
BOS ISO 2457:1976  
Solid wood parquet - Classification of beech Strips

This International Standard establishes the classification, by quality, of non-assembled solid beech parquet Strips.

ICS: 79.080  
BOS ISO 2859-1: 1999  
Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot – by – lot inspection

Sampling system for inspection by attributes.

ICS: 03.120.30  
BOS ISO 2859-2: 1985  
Sampling procedures for inspection by attributes – Part 2: Sampling plans indexed by limiting quality (LQ) for isolated lot inspection

LQ sampling plans and procedures for inspection by attributes compatible with ISO 2858/1 that can be used when the switching rules given in ISO 2859/1 are not applied.

ICS 03.120.30  
BOS ISO 2859-3: 1991  
Sampling procedures for inspection by attributes – Part 3: Skip – lot sampling procedures

Generic attribute skip-lot sampling procedures for reducing the inspection effort on products submitted by those suppliers who have demonstrated their ability to control, in an effective manner, all facets of quality and who consistently produce lots which meet requirements.

ICS: 03.120.30  
BOS ISO 2813:2014  
Paints and Varnishes – Determination of gloss value at 20, 60 and 85

This International Standard specifies a method for determining the gloss of coatings using the three geometries of 20°, 60° or 85°. The method is suitable for the gloss measurement of non-textured coatings on plane, opaque substrates.

NOTE On test specimens different from these mentioned above, comparative gloss measurements are possible. However, it is not ensured that the obtained gloss values correspond to the visual gloss perception (see Annex A).
ICS: 87.040

BOS ISO 2928:2003  Rubber hoses and hose assemblies for liquefied petroleum gas (LPG) in the liquid or gaseous phase and natural gas up to 25 bar (2.5 MPa) -- Specification
ISO 2928:2003 specifies requirements for rubber hoses and rubber hose assemblies used for the transfer of liquefied petroleum gas (LPG) in the liquid or gaseous phase and natural gas and designed for use at working pressures ranging from vacuum to a maximum of 25 bar (2.5 MPa) within the temperature range -30 °C to +70 °C or, for low-temperature hoses (designated -LT), within the temperature range -50 °C to +70 °C.

ICS: 23.040.70, 75.200  Price code: 10  Pages: 20

BOS ISO 2959:2011  Textiles — Woven fabric descriptions
This International Standard 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 not intended that the list of parameters is exclusive and additional information can be given as required. It is applicable to all woven fabrics except textile floor coverings.

ICS: 59.080.30

BOS ISO 3270:1984  Paints and Varnishes and their raw materials – Temperature and Humidity for conditioning and testing
This International Standard specifies conditions of temperature and relative humidity for general use in the conditioning and testing of paints and varnishes and their raw materials. It is applicable to paints and varnishes in liquid or powder form, to wet or dry films, and their raw materials.

ICS: 87.040, 87.060.01

BOS ISO 3572:1976  Textiles - Weaves - Definitions of general terms and basic Weaves
This International Standard gives definitions of general terms for describing weaves, and defines the three basic weaves.

ICS: 59.080.30, 01.040.59

BOS ISO 3585:1998  Borosilicate glass 3.3 — Properties
This International Standard specifies the characteristics of a type of glass designated “borosilicate glass 3.3” used for the construction of laboratory glassware, glass plant, pipeline and fittings.

NOTE — Annex A lists related International Standards

ICS: 81.040.01

BOS ISO 3819:2015  Laboratory glassware — Beakers
This International Standard specifies requirements for an internationally acceptable series of glass beakers for laboratory use.

ICS: 17.060

BOS ISO 4915: 1991  Textiles - Stitch types - Classification and terminology
This International Standard classifies, designates, describes and illustrates the various kinds of stitch types used in hand and machine-sewn seams.

ICS: 59.080.01

BOS ISO 4916: 1991  Textiles - Seam types - Classification and terminology
This International Standard classifies, illustrates and designates, the various kinds of stitched seams. It is not intended to be fully comprehensive but to illustrate a number of the most used seam types. It is applicable to seams used most particularly in the clothing industry. All illustrations show the cross section of the material configuration only. This International Standard should be read in conjunction with ISO 4915.

Standards catalogue  Updated: June 2018  88
ICS: 59.080.01

BOS ISO 4921:2000  Knitting — Basic concepts — Vocabulary
This International Standard defines terms for basic knitting concepts. The definitions of this vocabulary are complete in themselves; illustrations are used to clarify the content of a definition, but no standardization of any notational system is attempted.

ICS: 59.020

BOS ISO 3873: 1977  Industrial safety helmets
Specifies physical and performance requirements, methods of test and marking requirements. The mandatory requirements apply to helmets for general use in industry. Additional optional performance requirements are included: Shock absorption, penetration, flammability, electrical insulation, and lateral rigidity.

ICS: 13.340.20  Price code: 8  Pages: 16

This part of ISO 4064 specifies terminology, technical characteristics, metrological characteristics and pressure loss requirements for cold potable water and hot water meters. It applies to water metres that can withstand maximum admissible working pressures (MAP ≥ 1 MPa) (0.6 MPa for meters for use with pipe nominal diameters, DN ≥ 500mm) and a maximum admissible temperature, MAT for cold potable water meters of 30°C and for hot water meters up to 180°C, depending on class.

ICS: 91.140.60  Price code: 19  Pages: 52

BOS ISO 4074: 2002  Natural latex rubber condoms – Requirements and test methods
This International Standard specifies the minimum requirements and the test methods to be used for condoms made from natural rubber latex which are supplied to consumers for contraceptives purposes and to assist in the prevention of sexually transmitted infections.

ICS: 11.200  Price code: 20  Pages: 56

BOS ISO 4142:2002  Laboratory glassware – Test tubes
Specifies a range of test tubes, suitable for general laboratory use, fabricated from borosilicate, neutral or soda/lime glass, which are designated Type I, Type II and Type III respectively.

ICS: 71.040.20

BOS ISO 4788:2005  Laboratory glassware – Graduated measuring cylinders
Specifies dimensions, material and constructional and metrological requirements of graduated measuring cylinders of tall form (Type 1a and Type 1b) and of squat form (Type 2). All types are suitable for general laboratory use. The specifications in ISO 4788:2005 are in conformity with the principles of design and construction of volumetric glassware given in ISO 384.

ICS: 17.060

BOS ISO 4791-1:1985  Laboratory apparatus – Vocabulary relating to apparatus made essentially from glass, porcelain or vitreous silica – Part 1: Names for items of apparatus
This part of ISO 4791 lists the names of items of laboratory apparatus, made essentially from glass, porcelain or vitreous silica, together with items of equipment, made from other materials, which are commonly used in association with such apparatus. A vocabulary of technical terms, with their definitions and applicable to the manufacture, adjustment and use of such laboratory apparatus, will be issued as Part 2. The purpose of the vocabulary is to provide an aid to translators and readers of scientific literature. Because of the need to translate older documents, certain items of equipment now regarded as obsolete have been included. NOTE — In addition to terms used in the three official ISO languages (English, French and Russian), this part of ISO 4791 gives the equivalent terms in German; these have been included at the request of Technical Committee ISO/TC 48 and are published under the responsibility of the member body for the
Federal Republic of Germany (DIN). However, only the terms given in the official languages can be considered as ISO terms.

ICS: 71.040.20

BOS ISO 4793:1980  Laboratory sintered (fritted) filters – Porosity grading, classification and designation
Specifies a system of porosity grading, classifying and designating laboratory sintered (fritted) filters by the determination of pore size index. It is applicable to laboratory filters made of glass, vitreous silica, ceramics, metals and plastic materials. Test methods are included in annexes B and C for the determination of air permeability and uniformity of pore size, but these characteristics do not form part of the requirements of this International Standard.

ICS: 71.040.20

BOS ISO 4798:1997  Laboratory glassware – Filter funnels
This International Standard specifies requirements and dimensions for glass filter funnels suitable for general laboratory purposes, fitting together with other general-use glassware such as boiling flasks and volumetric flasks. NOTE — Annex A lists additional International Standards for other general-purpose laboratory glassware.

ICS: 71.040.20

BOS ISO 4799:1978  Laboratory glassware – Condensers
This International Standard specifies details for an internationally acceptable series of glass condensers suitable for general use in laboratories.

ICS: 71.040.20

BOS ISO 5084:1996  Textiles – Determination of thickness of textiles and textiles products
Describes a method for the determination of the thickness of textiles and textile products under specified pressure. Not applicable to textile floor coverings, nonwovens, geotextiles and coated fabrics. replaces the first edition.

ICS: 59.080.30

Specifies requirements for flexible load-bearing polyurethane foam of the polyurethane type. ISO 5999:2013 is applicable to flexible polyurethane cellular materials manufactured in block, sheet and strip form, in moulded and fabricated shapes, and as reconstituted material, used for load-bearing applications in general, but excluding carpet backing and underlay. It, thus, primarily relates to the quality of polyurethane foam used for comfort cushioning purposes.

83.100

BOS ISO 6556:2012  Laboratory glassware – Filter flasks
Specifies requirements to filter flasks with conical or cylindrical shape for general laboratory purposes.

ICS: 71.040.20

BOS ISO 6938:2012  Textiles — Natural fibres — Generic names and definitions
This International Standard gives the generic names and the definitions of the most important natural fibres according to their specific constitution or origin. An alphabetical list of names in common use is provided, together with the corresponding standardized denominations.

56.060.10
This part of ISO 8191 lays down a method of test to assess the ignitability of material combinations, such as covers and fillings used in upholstered seating when subjected to a smouldering cigarette as an ignition source.
The tests measure only the ignitability of a combination of materials used in upholstered seating and not the ignitability of a particular finished item of furniture incorporating these materials. They give an indication of, but cannot guarantee, the ignition behaviour of the finished item of furniture.
ICS: 97.140, 13.220.40

BOS ISO 5970:1979  Furniture – Chairs and tables for educational institutions – Functional sizes
The specified dimensions are confined to those which derive from anthropometric data; compliance with them ensures that the furniture permits good seating postures. The seven sizes for seating and related tables based on a reference stature are given in tables 1 and 2, and the references to the dimensions are shown in figures 1 and 2. This standard does not include special requirements applicable to “special schools” and adjustable furniture.
ICS: 97.140

BOS ISO 4915: 1991  Textiles - Stitch types - Classification and terminology
This International Standard classifies, designates, describes and illustrates the various kinds of stitch types used in hand and machine-sewn seams.
ICS: 59.080.01

BOS ISO 4916: 1991  Textiles - Seam types - Classification and terminology
This International Standard classifies, illustrates and designates, the various kinds of stitched seams. It is not intended to be fully comprehensive but to illustrate a number of the most used seam types. It is applicable to seams used most particularly in the clothing industry. All illustrations show the cross section of the material configuration only. This International Standard should be read in conjunction with ISO 4915.
ICS: 59.080.01

BOS ISO 4427-1: 2007  Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 1: General
This part of ISO 4427 specifies the general aspects of polyethylene (PE) piping systems (mains and service pipes) intended for the conveyance of water for human consumption, including raw water prior to treatment and water for general purposes. It also specifies the test parameters for the test methods to which it refers.
ICS: 23.040.20; 91.140.60; 93.025  Price code: 12  Pages: 24

This part of ISO 4427 specifies the pipes made from polyethylene (PE) intended for the conveyance of water for human consumption, including raw water prior to treatment and water for general purposes. It also specifies the test parameters for the test methods to which it refers.
ICS: 23.040.20; 91.140.60; 93.025  Price code: 13  Pages: 28

BOS ISO 4427-3: 2007  Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 3: Fittings
This part of ISO 4427 specifies the general aspects of fittings made from polyethylene (PE) for piping systems intended for the conveyance of water for human consumption, including raw water prior to treatment and water for general purposes. It also specifies the test parameters for the test methods to which it refers.
ICS: 23.040.20; 91.140.60; 93.025  Price code: 16  Pages: 40
This part of 4427 specifies the characteristics of the fitness for purpose of assembled piping systems made from polyethylene (PE) intended for the conveyance of water for human consumption, including raw water prior to treatment and water for general purposes. It also specifies the test parameters for the methods to which it refers.

ICS: 23.040.20; 91.140.60; 93.025 Price code: 8 Pages: 16

BOS ISO 4591: 1992 Plastics -- Film and sheeting -- Determination of average thickness of a sample, and average thickness and yield of a roll, by gravimetric techniques (gravimetric thickness)
Applies to all plastics films and sheeting and has special value when mechanical scanning is not sufficiently precise, particularly for measuring the thickness of embossed sheeting. The gravimetric thickness is calculated from measurements of mass, area and density of a sample.
ICS: 83.140.10 Price code: 6 Pages: 12

BOS ISO 4633: 2002 Rubber seals – Joint rings for water supply, drainage and sewage pipelines – Specification for materials
This International Standard specifies requirements for materials used in vulcanised 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).
This standard is applicable to joint seals for all pipeline materials, including iron, steel, clay, fibre cement, concrete, reinforced concrete, plastics and glass-reinforced plastics.
ICS: 83.140.50 Price code: 12 Pages: 24

BOS ISO 4706: 1989 Refillable welded steel gas cylinders
This International Standard gives minimum requirements for certain aspects concerning material, design, construction and workmanship, procedure and test at manufacture of refillable welded steel gas cylinders at a test pressure not greater than 75 bar \(^1\), and of water capacities from 1 L up to and including 150L for compressed, liquefied or dissolved gases, exposed to ambient temperatures.
ICS: 23.020.30 Price code: 13 Pages: 27

BOS ISO 4849: 1981 Personal eye-protectors – Specifications
Deals with general considerations, such as: designation, classification, requirements applicable to all types, some particular requirements, sampling, identification. The transmittance requirements and methods of test for particular uses are given in the International Standards listed in clause 3. Gives functional requirements for the various types used mainly in industry. Applies to all types used against various hazards which are likely to damage the eye or impair vision, with the exception of nuclear radiation, X-rays, laser beams and low-temperature infrared radiation.
ICS: 13.340.20 Price code: 8 Pages: 16

BOS ISO 4921:2000 Knitting — Basic concepts — Vocabulary
This International Standard defines terms for basic knitting concepts. The definitions of this vocabulary are complete in themselves; illustrations are used to clarify the content of a definition, but no standardization of any notational system is attempted.
ICS: 59.020, 01.040.59

Specifies a method for the enumeration of coliforms by means of the colony count technique at 30 °C.

Standards catalogue Updated: June 2018
BOS ISO 5541-2: 1986  Milk and milk products – Enumeration of coliforms – Part 2: Most probable number technique at 30°C.
Specifies a method for the enumeration of coliforms by means of the culture technique involving a liquid medium, and calculation of the most probable number (MPN) after incubation at 30 °C.

BOS ISO 5666: 1999  Water quality: Determination of mercury
This International Standard specifies two methods for the determination of mercury in water, for example in ground, surface and waste waters.

BOS ISO 5667–1: 2006  Water quality – Sampling – Part 1: Guidance on the design of sampling programmes and sampling techniques
This part of ISO 5667 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 ISO 5667. Also it does not include microbiological sampling, which is covered in ISO 19458. 

This part of ISO 5667 gives general principles 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. These guidelines are particularly appropriate when spot or composite samples cannot be analysed on-site and have to be transported to a laboratory for analysis.

This part of ISO 5667 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. Sampling for microbiological examination is not included. The main objectives are in 1.1 to 1.3.

This part of ISO 5667 establishes principles to be applied to the techniques of sampling water intended for human consumption. For purposes of this part of ISO 5667, water intended for human consumption comprises:

a) all water either in its original taste or after treatment, intended for drinking, cooking, food preparation, or other domestic purposes, regardless of its origin, plus.

b) all water used in any production undertaking for the manufacture, processing, preservation or marketing of products or substances intended for human consumption unless the competent national authorities are satisfied that the quality of the water cannot affect the wholesomeness of the foodstuff in its finished form.


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and streams.
This part of ISO 5667 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, chemical and microbiological assessment. It is not applicable to the sampling of estuarine or coastal waters and is of limited applicability to the microbiological sampling.

ICS: 13.060.45  Price code: 13  Pages: 28

This part of ISO 5667 contains details on the sampling of domestic and industrial waste water, i.e. the design of sampling programmes and techniques for the collection of samples. It covers waste water in all its forms, i.e. industrial waste water, and crude and treated domestic waste water. Sampling of accidental spillages is not included, although the methods described in certain cases may also be applicable to spillages.

ICS: 13.060.20  Price code: 10  Pages: 20

This part of ISO 5667 provides guidance on the sampling of ground waters. It informs the user of the necessary consideration when planning and undertaking groundwater sampling to survey the quality of ground water supply, to detect and access ground water contamination and to assist in ground water resource management, protection and remediation. This part of ISO 5667 does not apply to sampling related to the day-to-day operational control of groundwater abstractions for potable purposes. The guidance includes sampling of groundwater from both the saturated (below water table) zone and the unsaturated (above the water table) zone.

ICS: 13.060.45  Price code: 16  Pages: 40

BOS ISO 5681: 1992  Equipment for crop protection – Vocabulary
Defines 9 general terms, 146 terms for equipment for applying sprays, 11 terms for equipment for applying dust, 8 terms for equipment for applying granules, and 23 other terms.

ICS: 65.060.40; 01.040.65  Price code: 12  Pages: 24


ICS: 65.060.40  Price code: 13  Pages: 28

This part of ISO 5682 specifies the methods of testing and assessing the performance and accuracy distribution of hydraulic sprayers for field crops. It is applicable to agricultural hydraulic sprayers for field crops, except for manual sprayers and aircraft-mounted sprayers.

ICS: 65.060.40  Price code: 8  Pages: 16

Specifies the test method for volume/hectare adjustment systems of sprayers in order to assess precision of spraying and performance. Suitable for agricultural hydraulic pressure sprayers used for protection and/or fertilization of crops.

ICS: 65.060.40  Price code: 8  Pages: 16

Two methods for determination of cadmium: flame atomic absorption spectrometry (AAS) (Section 2) and electro thermal atomisation (AAS) (Section 3).
ICS 13.060.50  Price code: 8  Pages: 16
Titrmetric method using ethylenediaminetetraacetic acid (EDTA) for the determination of the calcium content of ground waters, surface waters and drinking waters.

ICS: 13.060.50  Price code: 6  Pages: 12
Titrmetric method using ethylenediaminetetraacetic acid (EDTA) for the determination of the sum of the calcium and magnesium concentrations in ground waters, surface waters and drinking waters.

ICS: 13.060.50  Price code: 6  Pages: 12
BOS ISO 6222: 1999  Water quality – Enumeration of culturable micro-organisms – Colony count by inoculation in a nutrient agar culture medium
This standard specifies a method for the enumeration of culturable micro-organisms in water by counting the colonies formed in a nutrient agar culture medium after aerobic incubation at 36°C and 22°C. The method is intended to measure the operational efficiency of the treatment process of public drinking water supplies and for general application to all types of water. It is particularly applicable to the examination of water intended for human consumption, including water in closed containers and to natural mineral waters.

ICS: 13.060.50  Price code: 6  Pages: 12
This part of ISO 6461 specifies a method for the detection and enumeration of the spores of sulphite-reducing anaerobes (clostridia) by membrane filtration.

ICS: 13.060.45  Price code: 6  Pages: 12
This part of ISO 6490 specifies titrimetric method for the determination of calcium content of animal feeding stuffs. The method is applicable to all animal feeding stuffs having calcium greater than 1g/kg.

ICS: 65.120  Price code: 4  Pages: 8
This International Standard specifies spectrometric method for the determination of the phosphorus content of animal feeding stuffs. The method is applicable to animal feeding stuffs with a phosphorus content less than 50g/kg. It is particularly appropriate for the analysis of products with low phosphorus content. For products with higher phosphorus content, application of a gravimetric method is advised, using for instance quinoline phosphomolydate.

ICS: 65.120  Price code: 8  Pages: 16
BOS ISO 6496: 1999  Animal feeding stuffs – Determination of moisture and other volatile matter content
This International Standard specifies a method for the determination of the moisture and other volatile matter content of animal feeding stuffs. The method is applicable to animal feeding stuffs with the exception of:
- milk products
- mineral substances
- mixtures containing a considerable amount of milk products or mineral substances, for example
milk replacers
- animal feeding stuffs containing humectants (e.g. propylene glycol)

ICS: 65.120

BOS ISO 6498: 1999 Animal feeding stuffs – Preparation of test samples
This International Standard specifies methods for the preparation of test samples from laboratory samples of animal feeding stuffs including pet foods.

ICS: 65.120

BOS ISO 6644: 2002 Flowing cereals and milled products – Automatic sampling by mechanical means – Specification
This International Standard specifies requirements for the automatic sampling, by mechanical means, of cereals (as grain) or of milled cereal products moving in bulk, for assessment of their quality. It is not applicable to commodities in sacks or in packages, to static bulks in wagons, ships, bulk tankers, silos or warehouses. It does not apply to seed grain.

ICS: 67.060

This International Standard specifies two methods for the determination of aflatoxin B₁ in animal feeding stuffs. These methods can only be used for semi-quantitative determinations.

ICS: 65.120

Specifies the reference method for the determination of the total solids content of milk, cream and evaporated milk.

ICS: 67.100.10

BOS ISO 6866: 1985 Animal feeding stuffs – Determination of free and total gossypol
This International Standard specifies a method for the determination of the content of free and total gossypol and chemically related substances in animal feeding stuffs.

ICS: 65.120

BOS ISO 6938:2012 Textiles — Natural fibres — Generic names and definitions
This International Standard gives the generic names and the definitions of the most important natural fibres according to their specific constitution or origin.
An alphabetical list of names in common use is provided, together with the corresponding standardized denominations.

ICS: 59.060.10, 01.040.59

BOS ISO 7211-2:1984 Textiles - Woven fabrics - Construction - Methods of analysis - Part 2: Determination of number of threads per unit length
This part of ISO 7211 specifies three methods for the determination of the number of threads per centimetre in woven fabrics. Any of the three methods may be used, the choice depending on the character of the fabric. However, in case of dispute method A is recommended.

ICS: 59.080.30

This part of ISO 7211 specifies a method for the determination of crimp of yarn in fabric. The method is applicable to most woven fabrics but is unsuitable for fabrics manufactured in such a way as to render removal of the crimp from the yarns impossible or impractical under the specified straightening tension.

ICS: 59.080.30

This part of ISO 7211 specifies a method for the determination of twist in yarns removed from woven fabrics. The method is only applicable to yarns spun on conventional systems, and is not applicable to OE (open-end spun) or interlaced yarns, for example.

ICS: 59.080.30

Titrimetric method for the determination of free chlorine and total chlorine in water.

ICS: 13.060.50  Price code: 8  Pages: 15

**BOS ISO 7393-2: 1985** Water quality – Determination of free chlorine and total chlorine – Part 2: Colorimetric method using N,N-diethyl-1,4-phenylenediamine, for routine control purposes.
Method for the determination of free chlorine and total chlorine in water readily applicable to field testing.

ICS: 13.060.50  Price code: 8  Pages: 16

Iodometric titration method for the determination of total chlorine in water.

ICS: 13.060.50  Price code: 8  Pages: 16

**BOS ISO 7056:1981** Plastics laboratory ware – Beaker
The requirements specify a series of plastic cylinders having a tapered or non-tapered form. The capacity is in the range from 25 ml to 5000 ml. For non-opaque beakers the graduation is specified. The construction, dimensions and material are described. The annexes deal with the test for ionic material extracted by water and with the flexibility test.

ICS: 17.060

**BOS ISO 7057:1981** Plastics laboratory ware – Filter funnels
Six preferred sizes are defines by their internal bowl diameter. General design are shown in a figure and the dimensions are tabled. The material shall be general non-brittle plastics. Annex A concern the determination of resistance to extraction of ionic material by water, Annex B describes the flexibility test.

ICS: 71.040.20

**BOS ISO 7704:1985** Water quality – Evaluation of membrane filters used for microbiological analyses
Gives a procedure for the evaluation and comparison of water-testing filters intended for the enumeration of specific organisms and mixed microbial populations. The procedure provides general guidelines for comparative testing of the recoveries of bacteria, yeasts and other fungi on membrane filters, as compared to recoveries by the spread plate and pour plate techniques.

ICS: 07.100.20
BOS ISO 7712:1983  Laboratory glassware – Disposable Pasteur pipettes
The requirements deal with pipettes which are uncalibrated and intend for the transfer and dispensing
of drops of solutions, and suspensions of biological materials. Two sizes are specified, details of which
are given in a table, and the general form is illustrated in a figure. The resistance to sterilization by
exposure to dry heat or to saturated steam is specified.

ICS: 17.060

BOS ISO 7730:2005  Ergonomics of the thermal environment – Analytical
determination and interpretation of thermal comfort using calculations of the PMV and PPD
indices and local thermal comfort criteria.
Prese</p>
ICS: 65.060.35
Price code: 10
Pages: 20

BOS ISO 8388:1998  Knitted fabrics - Types – Vocabulary
This International Standard defines terms for industrially produced machine knitted fabrics.

ICS: 59.080.30

BOS ISO 8498:1990  Woven Fabric – Description of defects – Vocabulary
This International Standard describes defects which commonly appear during the inspection of woven piece-goods. The purpose of this International Standard is to define woven fabric defects, i.e. those characteristics that have been unintentionally introduced into the fabric. The presence of one or other of these characteristics in a fabric does not automatically imply that the fabric is sub-Standard. Textile suppliers and purchasers will still have to reach agreement on whether a defect is present. If it is considered that a defect is present, they will then have to agree on the limits of the defect and on any allowance to be made, bearing in mind the intended use of the fabric.

ICS: 59.080.30, 01.040.59

BOS ISO 8499:2003  Knitted fabrics — Description of defects — Vocabulary
This International Standard describes defects which commonly appear during the inspection of knitted fabrics.

ICS: 01.040.59, 59.080.30

This part of ISO 8968 IDF 20 specifies a method for the determination of the nitrogen content of liquid milk, whole or skimmed, by the Kjeldahl principle. Warning – The use of this part of ISO 8968 IDF 20 may involve the use of hazardous materials, operations, and equipment. This standard does not purport to address all safety risks associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and healthy practices and determine the applicability of local regulatory limitations prior to use.

ICS: 67.100.10
Price code: 12
Pages: 24

This part of ISO 8968 IDF 20 specifies a method for the determination of the nitrogen content of liquid milk, whole or skimmed, by block digestion principle. Warning – The use of this part of ISO 8968 IDF 20 may involve the use of hazardous materials, operations, and equipment. This standard does not purport to address all safety risks associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and healthy practices and determine the applicability of local regulatory limitations prior to use.

ICS: 67.100.10
Price code: 10
Pages: 20

This part of ISO 8968 IDF 20 specifies a method for the determination of the non-protein nitrogen content of liquid milk, whole or skimmed. Warning – The use of this part of ISO 8968 IDF 20 may involve the use of hazardous materials, operations, and equipment. This standard does not purport to address all safety risks associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and healthy practices and determine the applicability of local regulatory limitations prior to use.

ICS: 67.100.10
Price code: 10
Pages: 20

This part of ISO 8968 IDF 20 specifies a method for the determination of the protein-nitrogen content of liquid milk, whole or skimmed. An alternative indirect method using calculations is also described.
Warning – The use of this part of ISO 8968 IDF 20 may involve the use of hazardous materials, operations, and equipment. This standard does not purport to address all safety risks associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and healthy practices and determine the applicability of local regulatory limitations prior to use.

ICS: 67.100.10     Price code: 10     Pages: 20

BOS ISO 9000: 2005     Quality management systems – Fundamentals and vocabulary
This International Standard describes fundamentals of quality management systems, which form the subject of the ISO family, and defines related terms. This standard is applicable to the following:
   a) organizations seeking advantage through the implementation of a quality management system
   b) organizations seeking confidence from their suppliers that their product requirements will be satisfied users of the products those concerned with a mutual understanding of the terminology used in quality management (e.g. suppliers, customers, regulators) those internal or external to the organization who assess the quality management system or audit it for conformity with the requirements of ISO 9001 (e.g. auditor, regulators, certification/registration bodies) those internal or external to the organization who give advice or training on the quality management system appropriate to that organization developers of related standards.

ICS: 03.120.10     Price code: 17     Pages: 44

BOS ISO 9001: 2015 (IDT) 5th ed     Quality management systems: Requirements
Requirements for a quality management system when an organization:
   a) Needs to demonstrate its ability to consistently provide products and services that meet customer and applicable statutory and regulatory requirements, and
   b) aims to enhance customer satisfaction through the effective application of the system, including processes for improvement of the system and the assurance of conformity to customer and applicable statutory and regulatory requirements.

All the requirements of this International Standard are generic and are intended to be applicable to any organization, regardless of its type, or the products and services it provides.

ICS: 03.120.10     Price code: 17     Pages: 44

BOS ISO 9004: 2009     Managing for the sustained success of an organization – A quality management approach
This International Standard provides guidance to organizations to support the achievement of sustained success by a quality management approach. It is applicable to any organization, regardless of size, type and activity. This International Standard is not intended for certification, regulatory or contractual use.

ICS: 03.120.10     Price code: 20     Pages: 56

BOS ISO 9117-1:2009     Paints and varnishes — Drying tests — Part 1: Determination of through-dry state and through-dry time
This part of ISO 9117 specifies a test method for determining under standard conditions whether a single coat or a multi-coat system of paint, varnish or related material has reached the through-dry state after a specified drying period.
NOTE The test procedure may also be used to determine the time taken to achieve that state.

ICS: 87.040

BOS ISO 9229:2007     Thermal insulation – Vocabulary
This International Standard establishes a vocabulary of terms used in the field of thermal insulation covering materials, products, components and applications. Some of the terms may have a different meaning when used in other industries or applications.
NOTE In addition to terms used in English and French, two of the three official ISO languages (English, French and Russian), this document gives the equivalent terms in German; these are published under the responsibility of the member body for Germany (DIN), and are given for information only. Only the terms and definitions given in the official languages can be considered as ISO terms and definitions.

ICS: 27.220

BOS ISO 9288:2007 Thermal insulation – Heat transfer by radiation – Physical quantities and definitions
This Standard defines physical quantities and other terms in the field of thermal insulation relating to heat transfer by radiation.

ICS: 27.220

This Standard defines terms used in the field of thermal insulation to describe heat transfer conditions and properties of materials.

ICS: 27.220

This International Standard defines physical quantities and other terms in the field of mass transfer relevant to buildings, building elements and systems, building components and building materials. For physical quantities the standard also gives the corresponding symbols and units.

ICS: 27.220

BOS ISO 9354:1989 Textiles - Weaves - Coding system and examples
This International Standard establishes a code for the systematic numerical notation for basic weaves and their simple derivatives.

ICS: 59.080.30

BOS ISO 9407:1991 Shoes sizes - Mondopoint System of sizing, and marking
This International Standard describes the fundamental characteristics of a System of sizing shoes that is to be known as Mondopoint. It specifies the method of size marking for shoes and applies to all types of shoe, without restriction.

ICS: 61.060

A uniform indoor test method for rating solar domestic water heating systems for thermal performance under benchmark conditions.

ICS: 27.160  Price code: 16  Pages: 40

Test procedures for characterizing the performance of solar domestic water heating systems operated without auxiliary boosting.

ICS: 27.160; 91.140.20  Price code: 22  Pages: 72

Solar domestic water heating systems designed to heat potable water to be supplied solely for domestic water usage and is not intended to be applied to other systems.

ICS: 27.160; 91.140.20  
Price code: 16  
Pages: 36

BOS ISO 9806-1: 1994  
Test methods for solar collectors – Part 1: Thermal performance of glazed liquid heating collectors including pressure drops  
This part of ISO 9806 establishes methods for determining the thermal performance of glazed liquid heating solar collectors. These tests are intended for use as part of the sequence of tests specified in ISO 9806-2.

ICS: 27.160; 91.140.20  
Price code: 22  
Pages: 68

BOS ISO 9806-2: 1995  
Test method for solar collectors – Part 2: Qualification test procedures  
Test methods for determining the ability of a solar collector to resist the influences of degrading agents.

ICS: 27.160; 91.140.20  
Price code: 20  
Pages: 56

BOS ISO 9964-1: 1993  
Water quality - Determination of sodium and potassium - Part 1: Determination of sodium by atomic absorption spectrometry  
This standard specifies a method for the determination of dissolved sodium by flame atomic absorption spectrometry (AAS). It is intended for the analysis of raw and drinking water. The method is applicable to water samples with mass concentration of sodium in the range from 5mg/l to 50mg/l. This range can be extended to lower or higher limits if dilution factors are chosen which are different from the factor specified in clause 8.

ICS: 13.060.50  
Price code: 6  
Pages: 12

BOS ISO 9964-2: 1993  
Water quality - Determination of sodium and potassium - Part 2: Determination of potassium by atomic absorption spectrometry  
This standard specifies a method for the determination of dissolved potassium by flame atomic absorption spectrometry (AAS). It is intended for the analysis of raw and drinking waters. The method is applicable to water samples with mass concentration of potassium in the range from 5mg/l to 50mg/l. This range can be extended to lower or higher limits if dilution factors are chosen which are different from the factor specified in clause 8.

ICS: 13060.50  
Price code: 6  
Pages: 12

BOS ISO 10002: 2004  
Quality Management – Customer satisfaction – Guidelines for complaints handling in organizations  
Guidance on the process of complaints handling related to products within an organization, including planning, design operation, maintenance and improvement.

ICS: 03.120.10  
Price code: 16  
Pages: 36

BOS ISO/TR 10013: 2001  
Guidelines for quality management system documentation  
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. This Report may be used to document management systems other than that of the ISO 9000 family, for example EMS and safety management systems.

ICS: 03.120.10  
Price code: 12  
Pages: 24
Presentation of information for the compilation and completion of a safety data sheet. Defines specifically the general layout of the SDS, the 16 standard headings, the numbering and the sequence of these 16 standard headings, the items necessary to fill in an SDS and the conditions of their applicability or utilization.

ICS: 71.100.01  Price code: 8  Pages: 16

BOS ISO 11050: 1993  Wheat flour and durum wheat semolina -- Determination of impurities of animal origin  
The principle of the method described is hydrolysis of a test portion with a solution of hydrochloric acid at boiling point, concentration of the insoluble particles at a water/hydrocarbon interface, separation by filtration on a filter paper or membrane, microscopic examination, and counting under reflected light, of the impurities of animal origin (i.e. insects at all stages of their development, insect fragments, mites and their fragments, and rodent hairs and their fragments). Applies to wheat flours, with or without additives and having an ash yield not exceeding 0.63 % (m/m), and durum wheat semolinas.

ICS: 67.060  Price code: 10  Pages: 20

Lays down minimum specifications for durum wheat (Triticum durum Desf.) intended for human consumption and forming the subject of international trade. Also gives methods for the determination of the level of impurities, the proportion of non-wholly-vitreous grains, a list of typical insect pests of stored cereals and an informative list of harmful and toxic seeds.

ICS: 67.060  Price code: 10  Pages: 20

BOS ISO 11212 – 2: 1997  Starch and derived products -- Heavy metals content -- Part 2: Determination of mercury content by atomic absorption spectrometry  
This part of ISO 11212 specifies a method for the determination of the mercury content of starch, including derivatives and by-products, by atomic absorption spectrometry with cold vapour generation.

ICS: 67.180.20  Price code: 6  Pages: 12

BOS ISO 11600: 2002  Building construction -- Joining products -- Classification and requirements for sealants.  
This International Standard specifies the types and classes of sealants used in building construction according to their applications and performance characteristics.

ICS: 91.100.50  Price code: 8  Pages: 16

BOS ISO 11684: 1995  Tractors, machinery for agriculture and forestry, powered lawn and garden equipment -- Safety signs and hazard pictorials -- General principles  
Establishes general principles for the design and application of safety signs and hazard pictorials permanently affixed to tractors, machinery for agriculture and forestry, and powered lawn and garden equipment as defined in ISO 3339-0 and ISO 5395. Outlines safety sign objectives, describes the basic safety sign formats and colours, and provides guidance on developing the various panels that together constitute a safety sign.

ICS: 65.060.01; 01.080.20  Price code: 20  Pages: 60

This part of ISO 11866 I IDF 170 specifies a combined method for the enumeration of presumptive Escherichia coli and of presumptive coliforms by means of the culture technique involving a liquid medium with MUG, and calculation of the number of presumptive Escherichia coli per gram or per milliliter by the most probable number (MPN) technique after incubation at 30°C.

Standards catalogue  Updated: June 2018  103
This part of ISO 11866 1 IDF 170 specifies a method for the enumeration of presumptive Escherichia coli by means of a colony-count technique 44 °C.

This International Standard specifies a method for the determination of arsenic including organically bound arsenic in drinking waters, ground waters and surface waters, in a concentration from 1µg/l to 10µg/l. Higher concentrations can be determined by using a suitable dilution of the water sample. Warning – Arsenic and arsenic compounds are toxic and are recognized as human carcinogens. Avoid any exposure by inhalation. Personal protection must be used in all cases where exposure to arsenic or arsenic compounds is possible.

Describes two atomic absorption spectrometric (AAS) methods for the determination of aluminium in water.

BOS ISO 12439: 2010 Mixing water for concrete
This International Standard specifies the requirements for water that is suitable for making concrete in accordance with ISO 22965 (all parts) and describes methods for accessing its suitability.

BOS ISO 13006: 1998 Ceramic tiles – Definitions, classification, characteristics and marking
Defines terms and establishes classifications, characteristics and marking requirements for ceramic tiles of the best commercial quality.

BOS ISO 13690: 1999 Cereals, pulses and milled products – Sampling of static batches. This International Standard specifies general conditions relating to sampling for the assessment of the quality of cereals, pulses and milled products from cereals and pulses (hereinafter called “grain”) in bulk or in bags but excluding pellets.
NOTES: 1. Sampling of seed grain is covered by the rules established by the International Seed Testing Association.
2. Sampling for hidden insect infestation is covered by ISO 6639-2.
3. ISO 6644 covers sampling of flowing grain

Specifies a procedure to determine the maximum force and elongation at maximum force of textile fabrics using a strip method. The method is mainly applicable to woven textile fabrics, including fabrics which exhibit stretch characteristics imparted by the presence of an elastomeric fibre, mechanical, or chemical treatment. It can be applicable to fabrics produced by other techniques. It is not normally
applicable to geotextiles, nonwovens, coated fabrics, textile-glass woven fabrics, and fabrics made from carbon fibres or polyolefin tape yarns (see Bibliography). The method specifies the determination of the maximum force and elongation at maximum force of test specimens in equilibrium with the standard atmosphere for testing, and of test specimens in the wet state. The method is restricted to the use of constant rate of extension (CRE) testing machines.

ICS: 59.080.30

**BOS ISO 14001: 2015 Environmental management systems – Requirements with guidance for use**

ISO 14001:2015 specifies the requirements for an environmental management system that an organization can use to enhance its environmental performance. ISO 14001:2015 is intended for use by an organization seeking to manage its environmental responsibilities in a systematic manner that contributes to the environmental pillar of sustainability. ISO 14001:2015 helps an organization achieve the intended outcomes of its environmental management system, which provide value for the environment, the organization itself and interested parties. Consistent with the organization’s environmental policy, the intended outcomes of an environmental management system include:

- enhancement of environmental performance;
- fulfilment of compliance obligations;
- achievement of environmental objectives.

ISO 14001:2015 is applicable to any organization, regardless of size, type and nature, and applies to the environmental aspects of its activities, products and services that the organization determines it can either control or influence considering a life cycle perspective. ISO 14001:2015 does not state specific environmental performance criteria.

ISO 14001:2015 can be used in whole or in part to systematically improve environmental management. Claims of conformity to ISO 14001:2015, however, are not acceptable unless all its requirements are incorporated into an organization’s environmental management system and fulfilled without exclusion.

ICS: 13.020.10  
Price code: 18  
Pages: 48

**BOS ISO 14004: 2004 Environmental management systems - General guidelines on principles, systems and supporting techniques**

Provides guidance on the development and implementation of environmental management systems and principles, and their co-ordination with other management systems.

ICS: 13.020.10  
Price Code: 18  
Pages: 50

**BOS ISO 14064-1: 2006 Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements**

This part of ISO 14064 specifies principles and requirements at the organization level for qualification and reporting of greenhouse gas (GHG) emissions and removals. It includes requirements for the design, development, management, reporting and verification of an organization’s GHG inventory.

ICS: 13.020.40  
Price code: 14  
Pages: 32

**BOS ISO 14064-2: 2006 Greenhouse gases - Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements**

This part of ISO 14064 specifies principles and requirements and provides guidance at the project level for the quantification, monitoring and reporting of activities intended to cause greenhouse gas (GHG) emission reductions or removal enhancements. It includes requirements for planning a GHG project, identifying and selecting GHG sources, sinks and reservoirs relevant to the project and baseline scenario, monitoring, quantifying, documenting and reporting GHG project performance and managing data quality.

ICS: 13.020.40  
Price code: 16  
Pages: 40

*Standards catalogue  
Updated: June 2018*
This part of ISO 14064 specifies principles and requirements and provides guidance for those conducting or managing the validation and/or verification of greenhouse gas (GHG) assertions. It can be applied to organizational or GHG project qualification, including GHG quantification, monitoring and reporting carried out in accordance with ISO 14064-1 or ISO 14064-2.

ICS: 13.020.40  Price code: 18  Pages: 48

This International Standard gives guidance to organizations in applying the requirements of ISO 9001 during the development and implementation of a quality management system in the food and drink industry. This International Standard gives information on the possible interaction of the ISO 9000 series of standards and the hazard analysis and critical control point (HACCP) system of food safety requirements. This International Standard is not intended for certification, regulatory or contractual use.

ICS: 03.120.10; 67.020  Price code: 18  Pages: 48

BOS ISO 15189: 2012  Medical laboratories – Requirements for quality and competence
This International Standard specifies requirements for quality and competence in medical laboratories. This International Standard can be used by medical laboratories in developing their quality management systems and assessing their own competence. It can also be used for confirming or recognizing the competence of medical laboratories by laboratory customers, regulating authorities and accreditation bodies.

NOTE International, national or regional regulations or requirements may also apply to specific topics covered in this International Standard.

ICS: 03.120.10  Price code: 20  Pages: 60

BOS ISO 15489-1: 2001  Information and documentation -- Records management -- Part 1: General
This part of ISO 15489 provides guidance on managing records of originating organizations, public or private, for internal and external clients. In some countries, the management of records also applies to archives management. Archives management is not covered in this part of ISO 15489.

ICS: 01.140.20  Price code: 13  Pages: 28

This part of ISO/ TR 15489 is an implementation guide to ISO 15489-1 for use by records management professionals and those charged with managing records in their organizations. It provides one methodology that will facilitate the implementation of ISO 15489-1 in all organizations that have a need to manage their records. It gives an overview of the processes and factors to consider in organizations wishing to comply with ISO 15489-1.

ICS: 01.140.20  Price code: 18  Pages: 48

This part of EN ISO 15874 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.

ICS: 23.040.20; 91.140.60  Price code: 10  Pages: 20
This part of EN ISO 15874 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 application (see Table 1 of EN ISO 15874-1:2003)

ICS: 23.040.20; 91.140.60  Price code: 13  Pages: 28

BOS ISO 19011: 2011  Guidelines for auditing management systems
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 competence of individuals involved in the audit process, including the person managing the audit programme, auditor and audit teams.

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.

ICS: 03.120.10  Price code: 20  Pages: 56

BOS ISO 19407:2015  Footwear — Sizing — Conversion of sizing systems
This Technical Specification comprises three shoe size conversion tables covering the major shoe sizing systems (Mondopoint, European and United Kingdom, as well as China, Japan and United States). The tables are based on measurement of foot length, this being the logical starting point for any shoe size marking system.

ICS: 61.060

BOS ISO 19408:2015  Footwear — Sizing — Vocabulary and terminology
This Technical Specification defines terms commonly used for measuring feet and lasts and for determining the size of footwear. This vocabulary complements ISO 19952, Footwear — Vocabulary. The term “shoe” means all types of footwear.

ICS: 61.060

This part of ISO 21003 specifies the general aspects of multilayer piping systems intended to be used for hot and cold water installations inside buildings for the conveyance of water – whether or not the water is intended for human consumption (domestic systems) or heating systems – under specified design pressures and temperatures appropriate to the class of application.

ICS: 23.040.45; 91.140.60  Price code: 10  Pages: 20

This part of ISO 21003 specifies the general aspects of multilayer piping systems intended to be used for hot and cold water installations inside buildings for the conveyance of water – whether or not the water is intended for human consumption (domestic systems) or heating systems – under specified design pressures and temperatures appropriate to the class of application. (see Table 1 of ISO 21003-1: 2008)

ICS: 23.040.45; 91.140.60  Price code: 13  Pages: 28

Standards catalogue  Updated: June 2018  107
This part of ISO 21003 specifies the characteristics of fittings for multilayer piping systems intended to be used for hot and cold water installations inside buildings for the conveyance of water – whether or not the water is intended for human consumption (domestic systems) or for heating systems – under specified design pressures and temperatures appropriate to the class of application.

ICS: 23.040.45; 91.140.60  Price code: 10  Pages: 20

This part of ISO 21003 specifies the characteristics of fittings for multilayer piping systems intended to be used for hot and cold water installations inside buildings for the conveyance of water – whether or not the water is intended for human consumption (domestic systems) or for heating systems – under specified design pressures and temperatures appropriate to the class of application.

ICS: 23.040.45; 91.140.60  Price code: 10  Pages: 20

BOS ISO 22000: 2005  Food safety management systems – Requirements for any organization in the food chain
This International Standard specifies requirements for a food safety management system where an organization in the food chain needs to demonstrate the ability to control food safety hazards in order to ensure that food is safe at the time of human consumption.

ICS: 67.020  Price code: 17  Pages: 44

BOS ISO 22300:2012 (IDT)  Societal security – Terminology
This standard contains terms and definitions applicable to societal security to establish a common understanding so that consistent terms are used.

ICS: 01.040.03; 03.100.01  Price code: 10  Pages: 20

BOS ISO 22301:2012 (IDT)  Societal security – Business continuity management systems - Requirements
Specifies requirements to plan, establish, implement, operate, monitor, review, maintain and continually improve a documented management system to protect against, reduce the likelihood of occurrence, prepare for, respond to, and recover from disruptive incidents when they arise.

ICS: 01.040.03; 03.100.01  Price code: 16  Pages: 36

BOS ISO 22715:2009  Cosmetics — Packaging and labelling
This International Standard specifies requirements for packaging and labelling of all cosmetic products as defined according to national regulations or practices intended for sale or free distribution. National regulations can, on several points, be more strict than this International Standard.

This International Standard is intended for use on cosmetics.
NOTE For packaging and labelling of toothpastes and oral rinses, see also ISO 11609 [5] and ISO 16408 [6].

ICS: 71.100.70

BOS ISO 22877:2004  Castors and wheels – Vocabulary, symbols and multilingual terminology
Defines terms and symbols relating to castors and wheels in the two official ISO languages (English and French). It gives the equivalent terms in the German, Dutch, Finnish, Italian and Swedish languages.

ICS: 53.060, 01.040.53
BOS ISO 22878:2004  Castors and wheels – Test methods and apparatus
Specifies the test methods and apparatus to be used to check the performance of castors and wheels.
ICS: 53.060, 97.140

BOS ISO 26000:2012  Guidance on social responsibility
This International Standard provides guidance to all types of organizations, regardless of their size or location, on:

a) Concepts, terms and definitions related to social responsibility;
b) The background, trends and characteristics of social responsibility;
c) Principles and practices relating to social responsibility;
d) The core subjects and issues of social responsibility;
e) Integrating, implementing and promoting social responsible behaviour throughout the organization and, through its policies and practices, within its sphere of influence;
f) Identifying and engaging with stakeholders; and

g) Communicating commitments, performance and other information related to social responsibility.
ICS: 03.100.01  Price code: 25  Pages: 124

BOS ISO 31000:2009 (IDT)  Risk management – Principles and guidelines
This standards provides principles and generic guidelines on risk management. The standards can be used by any public, private or community enterprise, association, group or individual. Therefore, this International Standard is not specific to any industry or sector.
ICS: 03.100.01  Price code: 16  Pages: 36

BOS ISO/TR 31004:2013 (IDT) Risk management – Guidance for the implementation of ISO 31000
This Technical Report provides guidance for organizations on managing risk effectively by implementing ISO 31000:2009. It provides:

- a structured approach for organizations to transition their risk management arrangements in order to be consistent with ISO 31000, in a manner tailored to the characteristics of the organization;
- an explanation of the underlying concepts of ISO 31000;
- guidance on aspects of the principles and risk management framework that are described in ISO 31000
ICS: 03.100.01  Price code: 18  Pages: 48

This guide provides the definitions of generic terms related to risk management. It aims to encourage a mutual and consistent understanding of, and a coherent approach to, the description of activities relating to the management of risk, and the use of uniform risk management terminology in processes and frameworks dealing with the management of risk.

This Guide is intended to be used by:

a) those engaged in managing risks,
b) those who are involved in activities of ISO and
c) developers of national or sector – specific standards, guides, procedures and codes of practice relating to the management of risk.

For principles and guidelines on risk management, reference is made to ISO 31000:2009.

ICS: 01.040.03; 03.100.01; 01.120  Price code: 10  Pages: 20

**BOS ISO/IEC 17020: 2012 Conformity assessment– Requirements for the operation of various types of bodies performing inspection**

This International Standard contains requirements for the competence of bodies performing inspection and for the impartiality and consistency of their inspection activities. It applies to inspection bodies of type A, B or C, as defined in this International Standard, and it applies to any stage of inspection.

NOTE: The stages of inspection include design stage, type examination, initial inspection, in-service inspection or surveillance.

ICS: 33.120.20  Price code:13  Pages 28

**BOS ISO/IEC 17025: 2005 General requirements for the competence of testing and calibration laboratories**

This standard specifies the general requirements for the competence to carry out tests and/or calibrations, including sampling

ICS: 03.120.20  Price code: 16  Pages 40


This International Standard establishes guidelines and general principles for initiating, implementing, maintaining, and improving information security management in an organization. The objectives outlined in this International Standard provide general guidance on the commonly accepted goals of information security management.

ICS: 35.340  Price code: 25  Pages 132


ICS: 03.120.10  Price code: 25  Pages: 94
BOS OHSAS STANDARDS

BOS OHSAS 18001: 2007  Occupational health and safety management systems – Requirements
This Occupational Health and Safety Assessment Series (OHSAS) Standard specifies the requirements for an occupational health and safety (OH&S) management system, to enable an organization to control its OH&S risks and improve its OH&S performance. It does not state specific OH&S performance criteria, nor does it give detailed specifications for the design of a management system.

ICS: 13.100  Price Code: 16  Pages: 40

BOS OHSAS 18002: 2008  Occupational health and safety management systems – Guidelines for the implementation of OHSAS 18001: 2007
This Occupational Health and Safety Assessment Series (OHSAS) guidelines provides generic advice on the application of OHSAS 18001: 2007. It explains the underlying principles of OHSAS 18001 and describes the intent, typical inputs, processes and typical outputs, against each requirement of OHSAS 18001. OHSAS 18002 does not create additional requirements to those specified in OHSAS 18001 nor does it prescribe mandatory approaches to the implementation of OHSAS 18001.

ICS: 13.100  Price Code: 25  Pages: 92
**COMPULSORY STANDARDS**

**BOS 5: 2009 2nd ed.**  
**Fire hose reels (with semi-rigid hose) - Specification**  
This standard specifies requirements for the construction and performance of fire hose reel systems with semi-rigid hoses for installation in buildings and other construction works, permanently connected to a water supply.  
ICS: 13.220.10  
Price code: 10  
Pages: 20

**BOS 8 – 1: 2008**  
**Poultry feeds – Part 1: Chicken feeds – Specification**  
This standard specifies the basic requirements for chicken (layers, broilers and breeders) feeds.  
ICS: 65.120  
Price code: 8  
Pages: 16

**BOS 25: 2008**  
**Animal feeding stuff – Cattle feeds**  
Requirements for cattle feeds  
ICS: 65.120  
Price code: 10  
Pages: 20

**BOS 26: 2009**  
**Cereals – Sorghum grains for human consumption**  
Sorghum grains as defined for direct 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.  
ICS: 67.060  
Price code: 6  
Pages: 12

**BOS 40-1: 2001**  
**Textiles – Inspection and acceptance criteria for used clothing**  
Prescribes a code of practice for the inspection and acceptance criteria for used garments of all types, sizes and fibre composition.  
ICS: 59.080.01; 61.020  
Price code: 8  
Pages: 16

**BOS 64: 2013 2nd ed.**  
**Raw cow milk – Specification**  
This Botswana Standard specifies requirements for raw cow's milk  
ICS: 67.100.10  
Price code: 6  
Pages: 12

**BOS 65-1: 2003**  
**The reconditioning of fire – fighting equipment Part 1: Portable rechargeable fire extinguishers.**  
Covers the administrative and technical details and controls applicable to the effective reconditioning of any portable rechargeable fire extinguisher.  
ICS: 13.220.10  
Price code: 14  
Pages: 32

**BOS 65-2: 2003**  
**The reconditioning of firefighting equipment – Part 2: Fire hose reels.**  
Specifies the procedures that apply to the effective reconditioning of fire hose reels.  
ICS: 13.220.10  
Price code: 8  
Pages: 16

**BOS 116: 2011 2nd ed.**  
**Pneumatic tyres for passenger cars and their trailers – Specification**  
This specification covers new pneumatic tyres for private (passenger) cars and their trailers. It does not apply to tyres designed for  
a) The equipment of vintage cars,  
b) Racing purposes, and  
c) Speeds exceeding 300 km/h.  
ICS: 83.160.10  
Price code: 12  
Pages: 24
This specification covers new pneumatic tyres primarily designed for use by all road vehicles. It does not however, apply to,
   a) new tyres for private (passenger) cars and their trailers,
   b) tyres of a speed category below 80km/h, or
   c) tyres designed for cycles and motor cycles.
ICS: 83.160.10 Price code: 14 Pages: 32

BOS 118: 2005 Single stage low pressure regulators for liquefied petroleum gas (LPG) – Specification
This standard specifies performance, safety and constructional requirements for low-pressure regulators of the single stage type intended for use with liquefied petroleum gas mixtures in the vapour phase and designed for a set outlet pressure of 2.8 kPa and a flow not exceeding 10kg/h. Unless otherwise stated, all pressures given in the standard are gauge pressures.
ICS: 23.020.30 Price code: 12 Pages: 24

BOS 63: 2009 2nd ed. Cereals – Classification and grading of sorghum grains intended for human consumption
Specifies classes and grades of sorghum grains intended for sale in Botswana.
ICS: 67.060 Price code: 10 Pages: 20

BOS 72: 2003 Pasteurized cow’s milk
Requirements for homogenized or unhomogenized pasteurised cow’s milk intended for human consumption.
ICS: 67.100.10 Price code: 8 Pages: 16

BOS 92: 2004 Fermented cow’s milk products – Yoghurt, sour milk (madila) and buttermilk
Requirements for yoghurt, sour milk (madila) and buttermilk derived from pasteurised cow’s milk and milk products. It is not applicable to products heat treated after fermentation.
ICS: 67.100.10 Price code: 4 Pages: 8

This Botswana Standard covers high penetration-resistant laminated safety glass including bullet-resistant glazing materials for use in vehicles. Note: When relevant, the provision of flat safety glass specimens for the tests in 7.6, 7.7, and 7.8 is a matter of agreement between the manufacturer and the purchaser.
ICS: 43.040.65; 81.040.30 Price code: 8 Pages: 16

This Botswana Standard covers laminated safety glass (excluding windscreen) for use in vehicles.
ICS: 43.040.65; 81.040.30 Price code: 8 Pages: 16

BOS 160: 2011 2nd ed. Toughened safety glass for vehicles – Specification
This standard covers toughened safety glass for use in vehicles
ICS: 43.040.65; 81.040.30 Price code: 6 Pages: 12
BOS 186: 2006   Plastic carrier bags and flat bags – Specification
This standard specifies requirements for carrier bags and flat bags that are made from thermo-plastic materials for use within the Republic of Botswana. This standard covers the following: domestically produced and imported plastic carrier bags, flat bags, printing requirements and the thickness of these bags. This standard does not cover the following: bread bags, refuse bags, bin liners, household plastic bags or primary packaging such as barrier bags.

ICS: 83.140.01 Price code: 4 Pages: 8

BOS 196: 2006   Fire extinguishing media- Powders- Specification
1.1 This standard specifies requirements for fire extinguishing powders for fires of Class A, Class B and Class C.
1.2 This standard does not cover the assessment of the performance of an extinguishing powder in a particular piece of equipment, other than the standard test extinguishers used in some of the tests.
Note: The onus is on the user to ensure compatibility between a powder and the equipment in which it is used.

ICS: 13.220.20 Price Code: 13 Pages: 28

BOS 201: 2006   Cereals and pulses – Certain pulses – Specification
This Botswana Standard applies to the whole, shelled or split pulses defined below which are intended for human consumption. The following pulses are covered by this standard: beans of the Phaseolus spp; lentils; peas; chickpeas; field beans; cowpeas; jugo bean; mung bean; groundnut/ peanut; soybean.

ICS: 67.060 Price code: 6 Pages: 12

BOS 252: 2007   Firefighting – Portable fire extinguishers – Performance and construction
This standard specifies the principal requirements intended to ensure the safety, reliability and performance of portable fire extinguishers. It is applicable to a fully charged extinguisher having a maximum mass of 20 kg.

Note 1: In some cases, extinguishers having a total mass of up to 25kg when fully charged may be approved, subject to local acceptance.

Note 2: Cartridge type fire extinguishers are not recommended for use, hence not covered in the standard.

ICS: 13.220.10 Price code: 19 Pages: 52

BOS 304: 2009   Firefighting equipment – Components of underground and above ground hydrant systems
This standard specifies requirements for major components (including the connections) of two types of hydrant assemblies.
Note: Requirements that must be specified by the purchaser are listed in Annex A

ICS 13.220.10; 23.060.99 Price code: 13 Pages: 28

BOS 305: 2009   Firefighting equipment – Hose couplings, connectors, and branch pipe and nozzle connections
This standard specifies requirements for:
   a) fire hose delivery couplings to fit hose of nominal diameter 45mm, 65mm, 70mm and 100mm,
   b) suction couplings to fit hose of nominal diameter 80mm, 90mm, 100mm, 115mm, 125mm, 140mm and 150mm,
   c) connectors and
   d) branch pipes and nozzle connections for delivery hose.

ICS 13.220.10; 23.040.60

BOS 449: 2011  Canned fish, canned marine molluscs, canned crustaceans and other derived products - Specification
This Botswana Standard specifies requirements for the manufacturer, production, processing and treatment of canned fish, canned fish products, canned marine molluscs products, canned crustaceans and canned crustaceans products.

ICS: 67.120.30

BOS 450: 2011  Peanut butter – Specification
This Botswana Standard specifies requirements for peanut butter for direct human consumption.

ICS: 67.080.20

BOS EN 197-1: 2000  Cement Part 1 Composition, specification and conformity criteria for common cement
EN 197-1 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. The definition also includes requirements the constituents have to meet and the mechanical, physical and chemical requirements of the 27 products and strength classes. EN 197-1 also states the conformity criteria and the related rules. Necessary durability requirements are also given.

NOTE 1 In addition to the specified requirements, an exchange of additional information between the cement manufacturer and user may be helpful. The procedures for such an exchange are not within the scope of EN 197-1 but should be dealt with in accordance with national standards or regulations or may be agreed between the parties concerned.

NOTE 2 The word "cement" in EN 197-1 is used to refer only to common cements unless otherwise specified.

ICS: 91.100.10

Price code: 13  Pages: 28

Price Code: 25  Pages: 80

Price Code: 6  Pages: 12

Price code: 16  Pages: 36
## LIST OF STANDARDS CLASSIFIED BY SUBJECT

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### 01.040.53 Materials handling equipment (Vocabularies)

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01.080 Graphical symbols

01.080.10 Public information symbols

BOS 6-1: 2016 ed. 2 TC LPG
Symbolic safety signs – Part 1: Standard signs and general requirements

01.080.20 Graphical symbols for use on specific equipment

BOS ISO 11684: 1995 ed. 1 TC LPG
Tractors, machinery for agriculture and forestry, powered lawn and garden equipment -- Safety signs and hazard pictorials -- General principles

01.080.30 Graphical symbols for use on mechanical engineering & construction drawings, diagrams, plans, maps & in relevant technical product documentation

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01.120 Standardization. General rules

BOS ISO Guide 73:2009 ed. 1 TC GPD 7
Risk management – Vocabulary

01.140 Information sciences. Publishing

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BOS ISO 15489-1: 2001 ed. 1 TC GPD2
Information and documentation -- Records management -- Part 1: General

BOS ISO 15489-2: 2001 ed. 1 TC GPD2
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03.080.30 Services for consumers

BOS 50-1: 2014 3rd ed. ed. 3 TC GPD2
Hotels and related establishments – Grading requirements – Part 1: Fully serviced hotels - Specification

BOS 50-2: 2014 3rd ed. ed. 3 TC GPD2
Hotels and related establishments – Grading requirements – Part 2: Selected serviced hotels - Specification

BOS 50-3: 2014 3rd ed. ed. 3 TC GPD2
Hotels and related establishments – Grading requirements – Part 3: Game lodges and tented camps - Specification

BOS 50-4: 2014 3rd ed. ed. 3 TC GPD2
Hotels and related establishments – Grading requirements – Part 4: Bed and Breakfast – Specification

BOS 50-5: 2014 3rd ed. ed. 3 TC GPD2
Hotels and related establishments – Grading requirements – Part 5: Guesthouses - Specification

BOS 50-6: 2014 3rd ed. ed. 3 TC GPD2

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Hotels and related establishments – Grading requirements – Part 6: Self-catering establishments.

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**BOS ISO 22300:2012 (IDT)** ed. 1 TC GPD 7
Societal security – Terminology

**BOS ISO 22301:2012 (IDT)** ed. 1 TC GPD 7
Societal security – Business continuity management systems – Requirements

**BOS ISO 26000:2012** ed. 1 TC GPD 7
Guidance on social responsibility

**BOS ISO 31000:2009 (IDT)** ed. 1 TC GPD 7
Risk management – Principles and guidelines

**BOS ISO/TR 31004:2009 (IDT)** ed. 1 TC GPD 7
Risk management – Guidance for the implementation of ISO 31000

**BOS ISO Guide 73:2009** ed.1 TC GPD 7
Risk management – Vocabulary

03.100.30 Management of human resources

03.120 Quality

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**BOS ISO 9000: 2005** ed. 2 TC GPD 1
Quality management systems – Fundamentals and vocabulary

**BOS ISO 9001: 2015 (IDT) 5th ed** ed. 5 TC GPD 1
Quality management systems: Requirements

**BOS ISO 9004: 2009** ed. 3 TC GPD 1
Managing for the sustained success of an organization – A quality management approach

**BOS ISO 10002: 2004** ed. 1 TC GPD 1
Quality Management – Customer satisfaction – Guidelines for complaints handling in organizations

**BOS ISO 14001: 2015** ed.3 TC EMD 1
Environmental management systems – Requirements with guidance for use

**BOS ISO 15189: 2012** ed. 2 TC GPD 1
Medical laboratories – Requirements for quality and competence

**BOS ISO/TR 10013: 2001** ed. 1
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**BOS ISO 15161: 2001**
Guidelines on the application of ISO 9001:2000 for the food and drink industry

**BOS ISO 19011: 2011** ed. 2 TC GPD 1
Guidelines for auditing management systems

03.120.20 Product and company certification. Conformity assessment

**BOS ISO/IEC 17025: 2005** ed. 1
General requirements for the competence of testing and calibration laboratories
03.120.30 Application of statistical methods

BOS ISO 2859-1: 1999 ed. 2
Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot – by – lot inspection

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Sampling procedures for inspection by attributes – Part 2: Sampling plans indexed by limiting quality (LO) for isolated lot inspection

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BOS 50-10:2016 ed. 1 TC GPD 2
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07.060 Geology, Geodesy, Geography

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07.100.20 Microbiology of water

BOS ISO 6222: 1999 ed. 2 TC EMD 2
Water quality – Enumeration of culturable micro-organisms – Colony count by inoculation in a nutrient agar culture medium

BOS ISO 7704:1985
Water quality – Evaluation of membrane filters used for microbiological analyses

07.100.30 Food microbiology

BOS ISO 11866-1: 2005 ed. 1 TC EMD 2
Milk and milk products – Enumeration of presumptive Escherichia coli – Part 2: Most probable number technique using 4-methylumbelliferyl-β-D-glucuronide (MUG).

BOS ISO 11866-2: 2005 ed. 1 TC EMD 2
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## 13.060.20 Drinking water

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**BOS ISO 5667–11: 2009**  
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TC EMD 2

Water quality—Sampling - Part 11: Guidance on sampling of groundwaters

**BOS ISO 6461-2: 1986**  
*ed. 1*  
TC EMD 2

Water quality – Detection and enumeration of the spores of sulphide reducing anaerobes (clostridia) – Part 2: Method by membrane filtration

**BOS ISO 7899-1: 1998**  
*ed. 2*  
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BOS ISO 7890-3: 1988  
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BOS ISO 11969: 1996  
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Water quality – Determination of arsenic – Atomic absorption spectrometric method (hydride technique)

BOS ISO 12020: 1997  
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BOS 125:2005  
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TC EMD 2  
Water quality - Determination of dissolved solids

BOS ISO 7888: 1985  
ed. 1  
TC EMD 2  
Water quality – Determination of electrical conductivity.

### 13.100 Occupational safety. Industrial hygiene

BOS 6-1: 2016  
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Symbolic safety signs – Part 1: Standard signs and general requirements

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Health, safety and environmental guidelines for the construction and operation of timber treatment plants – Code of practice

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Occupational health and safety management systems – Requirements

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BOS ISO 7730:2005  
Ergonomics of the thermal environment – Analytical determination and interpretation of thermal comfort using calculations of the PMV and PPD indices and local thermal comfort criteria.

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**BOS 5: 2009 2nd ed.**

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ed. 1  
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**BOS 65-1: 2003**

The reconditioning of fire – fighting equipment Part 1: Portable rechargeable fire extinguishers.  
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### 13.220.20 Protection against fire

**BOS 65-2:2015 2nd ed.**  
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The production of reconditioned fire-fighting equipment Part 2: Fire hose reels and above-ground hydrants

**BOS 196: 2006**

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Fire resisting door units for record rooms – Specification  
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### 13.300 Protection against dangerous goods

**BOS 66:2014**  
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Globally harmonized system of classification and labelling of chemicals (GHS)

### 13.310 Protection against crime

**BOS 334: 2010**

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**BOS 317: 2009**

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  Industrial safety helmets

- **BOS ISO 4849: 1981**
  Personal eye-protectors – Specifications

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- **BOS ISO 1772:1975**
  Laboratory crucibles in porcelain and silica

#### 17.060 Measurements of volume, mass, density, viscosity

- **BOS ISO 384:2015**
  Laboratory glass and plastics ware — Principles of design and construction of volumetric instruments

- **BOS ISO 385:2005**
  Laboratory glassware — Burettes

- **BOS ISO 648:2008**
  Laboratory glassware — Single-volume pipettes

- **BOS ISO 835:2007**
  Laboratory glassware — Graduated pipettes

- **BOS ISO 1042:1998**
  Laboratory glassware — One-mark volumetric flasks

- **BOS ISO 1769:1975**
  Laboratory glassware - Pipettes - Colour coding

- **BOS ISO 3819:2015**
  Laboratory glassware — Beakers

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  Plastics laboratory ware – Beaker

- **BOS ISO 7712:1983**
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**BOS 575: 2013**  
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Engine speed (S values), reference sound levels and permissible sound levels of stationary vehicles – Code of practice

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Mild steel nails - Specification

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#### 23.020.01 Fluid storage devices in general

**BOS 108: 2005**  
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Rotational moulded polyethylene water storage tanks - Specification

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Glass-fibre reinforced plastics sectional tanks for cold water storage – Specification

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Steel tanks for flammable and combustible liquids – Specification

#### 23.020.20 Vessels and containers mounted on vehicles

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23.020.30 Pressure vessels, gas cylinders

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Metallic hose assemblies for liquid petroleum gases and liquefied natural gases — Specification

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Refillable welded steel gas cylinders

23.040 Pipeline components and pipelines

23.040.01 Pipeline components & pipelines in general

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23.040.20 Plastics pipes

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Unplasticized polyvinyl chloride (PVC-U) soil, waste and vent pipes and Pipe fittings - Specification.

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27.060.10  Liquid and solid fuel burners

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27.060.20  Gas fuel burners
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27.160  Solar Energy Engineering

BOS 2 - 1: 2005 2nd ed.  ed. 2  TC EED 1
Code of Practice for photovoltaic energy systems design and installation

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Solar heating systems for hot water – Part 2: Integral collector-tank system – Code of practice

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Domestic solar heating systems for hot water – On site test method – Thermal performance

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27.220  Heat recovery. Thermal insulation

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Thermal insulation – Vocabulary

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Thermal insulation – Heat transfer conditions and properties of Materials – Vocabulary

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Thermal insulation – Heat transfer by radiation – Physical quantities and definitions

BOS ISO 9346:2007  
Hydrothermal performance of buildings and building materials – Physical quantities for mass transfer - Vocabulary

29.060.20  Cables

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Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/ 3 300 V) — Part 1: Packaging and marking — Requirements

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### 29.140.40 Luminaires

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Luminaires – Part 2-24: Particular requirements – Luminaires with limited surface temperatures

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Luminaires – Part 2: Particular requirements – Section 25: Luminaires for use in clinical areas of hospitals and health care buildings

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BOS 563:2013 ed. 1 TC EED2
Distribution of transformers - Specification

29.220.20 Acid secondary cells and batteries

BOS IEC 60896-11: 2002 ed. 1.0b
Stationary lead-acid batteries – Part 11: Vented types – General requirements and method test.

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Stationary lead-acid batteries – Part 21: Valve regulated types – Methods of test.

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General purpose lead-acid batteries (Valve regulated types) – Part 2: Dimensions, terminals and marking

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29.240.20 Power transmission & distribution lines

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BOS 513-2: 2012 ed. 1. TC EED 2
Conductors for overhead electrical transmission lines – Part 2: Stranded aluminium conductors

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33.040 Telecommunication systems

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33.040.20 Transmission systems

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33.120 Components and accessories for telecommunications equipment

33.12.20 Wires and symmetrical cables

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Conformity assessment – Requirements for the operation of various types of bodies performing inspection

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35.040 Character sets and information coding

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35.040.99 Equipment, Casino

BOS 202-1: 2006 ed. 1 TC GPD 3
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BOS 202-2: 2006 ed. 1 TC GPD 3
Gaming equipment - Part 2: Monitoring and control systems for gaming equipment

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Gaming equipment - Part 4: Local area and wide area jackpot and progressive jackpot equipment

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Gaming equipment - Part 5: Tokens

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BOS 121: 2005 ed. 1 TC MED 5
The measurement of noise emitted by road vehicles when stationary – Code of practice

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Engine speed (S-values), reference sound levels and permissible sound levels of stationary road vehicles – Code of practice.

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- **BOS 303-1: 2008**
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- **BOS 303-2: 2008**
  **ed. 1**
  Lights for motor vehicles - Part 2 - Headlights

- **BOS 303-3: 2008**
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**43.040.60** Bodies and body components

- **BOS 187: 2006**
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  Motor vehicle safety – Rear under-run protection devices – Specification

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**43.040.65** Glazing and wiper systems

- **BOS 158: 2011 2nd ed.**
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  High penetration – resistant laminated safety glass for vehicles - Specification

- **BOS 159: 2011 2nd ed.**
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- **BOS 160: 2011 2nd ed.**
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- **BOS 302: 2008**
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  Plastic safety glazing materials for motor vehicles – Specification

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**43.080** Commercial Vehicles

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- **BOS 613- 1: 2014**
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  Conveyor belt idlers – Part 1: Troughed belt conveyor idlers (metallic and non- metallic) for idler roller rotational speeds of up to 750 revolutions per minute- Specification

- **BOS 613- 2: 2014**
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  Conveyor belt idlers - Part 2: Link suspended idlers and fixed- form suspended idlers (metallic and non- metallic) for idler roller rotational speeds of up to 750 revolutions per minute- Specification

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BOS ISO 4921:2000
Knitting — Basic concepts — Vocabulary

59.060  Textile Fibres

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Castors and wheels — Vocabulary, symbols and multilingual terminology
BOS ISO 22878:2004
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Textiles — Natural fibres — Generic names and definitions

59.080  Products of the textile industry

59.080.01  Textile in general

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Textiles — Inspection and acceptance criteria for used clothing

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59.080.20  Textile Fabrics

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59.080.30  Textile Yarns

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BOS 288-4: 2009 ed. 1 TC TCD1
Woven household fabrics and articles Part 4: Polyester-and-cotton sheeting, sheets and pillowcases – Specification

BOS 288-5: 2009 ed. 1 TC TCD1
Woven household fabrics and articles Part 5: Terry towelling, towels, and other terry weave articles – Specification

BOS 288-6: 2009 ed. 1 TC TCD1
Woven household fabrics and articles Part 6: Cotton curtain fabrics – Specification

BOS 288-7: 2009 ed. 1 TC TCD1
Woven household fabrics and articles Part 7: Cotton curtain lining – Specification

BOS 288-8: 2009 ed. 1 TC TCD1
Woven household fabrics and articles Part 8: Bedspread fabrics and bedspreads – Specification

BOS 288-9: 2009 ed. 1 TC TCD1

BOS 288-10: 2009 ed. 1 TC TCD1
Woven household fabrics and articles Part 10: Cotton ticking – Specification

BOS 288-11: 2009 ed. 1 TC TCD1
Woven household fabrics and articles Part 11: Feather proof fabrics – Specification

BOS 288-12: 2009 ed. 1 TC TCD1
Woven household fabrics and articles Part 12: Kitchen cloth fabric and kitchen cloths – Specification

BOS 288-13: 2009 ed. 1 TC TCD1
Woven household fabrics and articles Part 13: Cotton huckaback towelling and towels – Specification

BOS 288-14: 2009 ed. 1 TC TCD1

BOS 288-15: 2009 ed. 1 TC TCD1
Woven household fabrics and articles Part 15: Cotton dishcloth fabrics and dishcloths – Specification

BOS ISO 2959:2011
Textiles — Woven fabric descriptions

BOS ISO 3572:1976
Textiles - Weaves - Definitions of general terms and basic
Weaves

**BOS ISO 7211-2:1984**
Textiles - Woven fabrics - Construction - Methods of analysis -
Part 2: Determination of number of threads per unit length

**BOS ISO 7211-3:1984**
Textiles - Woven fabrics - Construction - Methods of analysis -
Part 3: Determination of crimp of yarn in fabric

**BOS ISO 7211-4:1984**
Textiles - Woven fabrics - Construction - Methods of analysis –
Part 4: Determination of twist in yarn removed from fabric

**BOS ISO 8388:1998**
Knitted fabrics - Types – Vocabulary

**BOS ISO 8498:1990**
Woven Fabric – Description of defects – Vocabulary

**BOS ISO 8499:2003**
Knitted fabrics — Description of defects — Vocabulary

**BOS ISO 9354:1989**
Textiles - Weaves - Coding system and examples

**BOS ISO 13934-1:2013**
Textiles – Tensile properties of fabrics – Part 1: Determination of maximum force and elongation at maximum force using the strip method

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**59.080.99 Other products of the textile industry**

**BOS 207:2015**
National Flag – Specification

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**59.100.10 Textile glass materials**

No current standards

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**61 Clothing industry**

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**61.020 Clothes**

**BOS 40-1:2001**
Textiles – Inspection and acceptance criteria for used clothing

**BOS 152: 2005**
Definitions and measurement procedure – Code of practice

**BOS 153: 2005**
Size designation of clothes – Men’s and boys’ wear garments – Specification

**BOS 154: 2005**
Size designation of women’s and girl’s wear – Specification

**BOS 208: 2006**
Care labelling of textiles and clothing – Specification

**BOS 211: 2006**
Printed labels for textiles – Specification

**BOS 233-1: 2007**
School clothing – Part 1: General requirements – Specification

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BOS 233-2: 2007  
School clothing – Part 2: Blazers – Specification  
ed. 1  
TC TCD 1

BOS 233-3: 2007  
School clothing – Part 3: Trousers and shorts – Specification  
ed. 1  
TC TCD 1

BOS 233-4: 2007  
School clothing – Part 4: Shirts – Specification  
ed. 1  
TC TCD 1

BOS 233-5: 2007  
School clothing – Part 5: Dresses, tunics and gym dresses – Specification  
ed. 1  
TC TCD 1

BOS 233-6: 2007  
School clothing – Part 6: Girls’ slacks and skirts – Specification  
ed. 1  
TC TCD 1

BOS 233-7: 2007  
School clothing – Part 7: Jerseys and cardigans – Specification  
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TC TCD 1

BOS 233-8: 2007  
School clothing – Part 8: Tracksuits – Specification  
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BOS 233-9: 2007  
School clothing – Part 9: Athletic wear – Specification  
ed. 1  
TC TCD 1

BOS 233-10: 2007  
School clothing – Part 10: Knee-high stockings and socks - Specification  
ed. 1  
TC TCD 1

61.040  Headgear, clothing accessories, fastening of clothing

BOS 128: 2005  
Men’s and women’s leather belts  
ed. 1  
TC TCD 1

61.060  Footwear

425: 2012  
Industrial boots (including safety boots) with direct-vulcanized soles and heels – Specification  
ed. 1  
TC TCD 2

BOS 426: 2012  
Industrial boots (including safety boots) with stuck-on pre-moulded or direct-injection-moulded soles and heels – Specification  
ed. 1  
TC TCD 2

BOS 618:2014  
Ladies’ shoes, flat lasted, with stuck-on outer soles — Specification  
ed. 1  
TC CD 2

BOS 619:2014  
Men’s flat lasted shoes, with stuck-on outer sole — Specification  
ed. 1  
TC CD 2

BOS ISO 9407:1991  
Shoes sizes - Mondopoint System of sizing, and marking

BOS ISO 19407:2015  
Footwear — Sizing — Conversion of sizing systems

BOS ISO 19408:2015  
Footwear — Sizing — Vocabulary and terminology

65  Agriculture

65.020  Farming and forestry

No current standards

65.020.20  Plant growing
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### 65.060.10 Agricultural tractors and trailed vehicles

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<tr>
<td>BOS ISO 11684: 1995</td>
<td>Tractors, machinery for agriculture and forestry, powered lawn and garden equipment -- Safety signs and hazard pictorials -- General principles</td>
<td>ed. 1</td>
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<td>BOS ISO 730-1: 1994</td>
<td>Agricultural wheeled tractors -- Rear-mounted three-point linkage -- Part 1: Categories 1, 2, 3 and 4</td>
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<td>BOS ISO 730-2:1979</td>
<td>Agricultural wheeled tractors -- Three-point linkage -- Part 2: Category 1 N (Narrow hitch)</td>
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<td>BOS ISO 789-1:1990</td>
<td>Agricultural tractors -- Test procedures -- Part 1: Power tests for power take-off</td>
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<td>BOS ISO 789-2:1993</td>
<td>Agricultural tractors -- Test procedures -- Part 2: Rear three-point linkage lifting capacity</td>
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<td>BOS ISO 789-6:1982</td>
<td>Agricultural tractors -- Test procedures -- Part 6: Centre of gravity</td>
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<td>Agricultural irrigation equipment -- Sprayers -- General requirements and test methods</td>
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### 65.060.40 Plant care equipment

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<td>Equipment for crop protection -- Vocabulary</td>
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### 65.100.10 Insecticides

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### 65.120 Animal feeding stuffs

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BOS 25: 2008 2nd ed.
Animal feeding stuff – Cattle feeds – Specification

BOS 190: 2006
Animal feeding stuffs- Pig feeds – Specification

BOS 225: 2006
Poultry feeds – Broiler breeder feeds – Specification

BOS 234: 2006
Animal feeding stuffs – Guinea fowl feeds – Specification

BOS 246: 2007
Animal feeding stuffs – Rabbit feeds - Specification

BOS 297: 2008
Animal feeding stuffs – Pet foods – Specification

BOS ISO 6490-1: 1985
Animal feeding stuffs – Determination of calcium content – Part 1: Titrimetric method

BOS ISO 6491: 1998
Animal feeding stuffs – Determination of phosphorus content – Spectrometric method

BOS ISO 6496: 1999
Animal feeding stuffs – Determination of moisture and other volatile matter content

BOS ISO 6498: 1999
Animal feeding stuffs – Preparation of test samples

BOS ISO 6651: 2001
Animal feeding stuffs – Semi-quantitative determination of aflatoxin B1 – Thin-layer chromatographic methods

BOS ISO 6886: 1985
Animal feeding stuffs – Determination of free and total gossypol

67   Food Technology

67.020   Processes in the food industry

BOS 686:2015
Requirements for a Hazard Analysis and Critical Control Point (HACCP) System

BOS 690: 2015   ed. 1
Food management System – Requirements for prerequisite programmes (PRPs)

BOS CAC/RCP 1: 2003   ed. 1
Recommended International Code of Practice – General principles of food hygiene.

BOS ISO 15161:2001   ed. 1
Guidelines on the application of ISO 9001:2000 for the food and drink industry

BOS ISO 22000: 2005   ed. 1
Food safety management systems – Requirements for any organization in the food chain

67.050   General methods of tests and analysis for food products

No current standards

67.060   Cereals, pulses and derived products

BOS 26:2009 2nd ed.
Cereals – Sorghum grains for human consumption

BOS 63:2002
ed. 1   TC AFD3

TC AFD2

TC AFD2

TC AFD2

TC AFD2

TC AFD2

TC AFD2

TC AFD2
Cereals – Classification and grading of sorghum grains intended for human consumption

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<td>BOS 155:2005</td>
<td>Cereals – Sorghum malt</td>
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<td>Cereals – Determination of the diastatic power of sorghum – Test method.</td>
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<td>Cereal products - Sorghum meal and sorghum flour – Specification</td>
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<td>Cereals and pulses – Certain pulses – Specification</td>
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<td>Cereals – Whole and dehulled pearl millet grains - Specification</td>
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<td>BOS ISO 6644:2002</td>
<td>Flowing cereals and milled cereal products – Automatic Sampling by mechanical means</td>
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<td>Wheat flour and durum wheat semolina -- Determination of impurities of animal origin</td>
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<td>BOS ISO 13690:1999</td>
<td>Cereals, pulses and milled products – Sampling of static batches</td>
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67.080 Fruits. Vegetables

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<td>Fruits and vegetables - Citrus fruit – Grading requirements</td>
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<td>BOS ISO 874:1980</td>
<td>Fruits and vegetables – Sampling</td>
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67.080.10 Fruits and derived products

No current standards

67.080.20 Vegetables and derived products

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<td>BOS 4:2012 2nd ed.</td>
<td>Tomato – Grading requirements</td>
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<td>Sweet pepper- Specification</td>
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<td>Peanut butter – Specification</td>
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<td>Leafy vegetables – Grading requirements</td>
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<td>Cucumber – Grading Requirements</td>
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<td>Jam, Jellies and Marmalades – Specification</td>
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<td>Good agricultural practices for horticulture – Code of practice</td>
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<td>Bottled tomato sauce – specification</td>
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### 67.100. Milk and milk products

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<td>Milk and milk products – Guidance on sampling</td>
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<td>BOS ISO 5541-1: 1986</td>
<td>Milk and milk products – Enumeration of coliforms – Part 1: Colony count technique at 30°C.</td>
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#### 67.100.10 Milk and processed milk products

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<td>BOS 64: 2013 2nd ed.</td>
<td>Raw cow milk – Specification</td>
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<td>BOS 72: 2003</td>
<td>Pasteurized cow's milk</td>
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Fermented cow's milk products – Yoghurt, sour milk (madila) and buttermilk

BOS ISO 1211:1999  
ed. 2  
Milk – Determination of fat content – Gravimetric method (Reference method)

BOS 126: 2013  
ed. 2  TC AFD 4  
Milk and milk products – Ultra high temperature treated cow's milk - Specification

BOS ISO 6731: 1989  
ed. 1  
Milk, cream and evaporated milk – Determination of total solids content (Reference method).

67.100.30  Cheese

BOS 198: 2008  
ed. 1  TC AFD  
Cheese – General specification

BOS ISO 1735:2004  
ed. 3  TC AFD4  
Cheese and processed cheese products -- Determination of fat content -- Gravimetric method (Reference method)

67.120.10  Meat and meat products

BOS 656:2015  
ed. 1  TC AFD7  
Chicken meat – Specification

67.120.20  Poultry and Eggs

BOS 200:2016  
ed. 1  TC AFD7  
Fresh chicken table eggs (unfertilized) – Specification

67.120.30  Fish and fishery products

BOS 449: 2011  
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Canned fish, canned marine molluscs, canned crustaceans and other derived products – Specification

BOS 385: 2012  
ed. 1  TC AFD7  
The manufacture, production, processing and treatment of canned meat products – Specification

67.160  Beverages

BOS 680: 2015  
Cereal products — Mageu — Specification

67.160.10  Alcoholic beverages

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67.160.20  Non-alcoholic beverages

BOS 106: 2004  
ed. 1  TC AFD 6  
Fruit juices and fruit drinks

BOS 473: 2011  
ed. 1  TC AFD 6  
Additives in fruit and vegetable drinks and non-alcoholic drinks – Specification

67.180 Sugar. Sugar products. Starch

67.180.10  Honey

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67.200 Edible oils and fats. Oilseeds

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67.200.10 Animal and vegetable fats and oils

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### 71 Chemical Technology

71.060.50 Salts

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71.100.01 Products of the chemical industry in general

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<td>Classification, labelling and packaging of chemicals – Part 1: General requirements</td>
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71.100.35 Chemicals for industrial and domestic disinfection purposes

71.100.40 Surface active agents

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Polish stripper – Specification

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High foam laundry detergent – Specification  
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**BOS 358:2009**
Low foam laundry detergent — Specification  
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**BOS 374: 2010**
Ammoniated liquid detergent cleaner – Specification  
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**BOS 370: 2010**
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**TC CD 5**

### 71.100.50 Wood-protecting chemicals

**BOS 173: 2006**
Preservative treated timber – Specification  
**ed. 1**  
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### 71.100.70 Cosmetics, Toiletries

**BOS 370: 2010**
Detergent skin cleansers – Specification  
**ed. 1**  
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**BOS ISO 22715:2009**
Cosmetics — Packaging and labelling

### 75 Petroleum and related technologies

#### 75.100 Lubricants, industrial oils and related products

**BOS 628: 2015**
High performance engine oil for petrol engines (for API service category SJ).  
**ed. 1**  
**TC MED 10**

**BOS 629: 2015**
High performance engine oil for petrol engines (for API service category SL).  
**ed. 1**  
**TC MED 10**

#### 75.140 Waxes, bituminous materials and other petroleum products

**BOS 14: 2000**
Penetration grade bitumen  
**ed. 1**  
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**BOS 15:2000**
Semi-flexible vinyl tiles  
**ed. 1**  
**TC BCD 2**

**BOS 17:2000**
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**IEC 60335-2-6: 2002** ed. 5
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**IEC 60335-2-7: 2002** ed. 6 24p. (12)
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BOBS Guide 1: 2009  Guidelines for the structure and drafting of Botswana Standards and other related documents

This guide specifies rules for the structure and drafting of documents and other associated that are intended to ensure that documents are drafted as in uniform a manner as practicable, irrespective of the technical content. It gives some guidance with regard to presentation and rules to the typography and layout of published documents.


This guide was adopted from an International Guide, ISO/IEC Guide 59: 1994 Code of good practice for standardization. They are identical and no changes were effected.
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