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Printed in Gaborone
MISSION STATEMENT

Our mission is:

To establish national standards, promote and facilitate their implementation with a view to improving industrial competitiveness and efficiency to enhance trade, and protect the consumer and the environment.

Vision Statement

BOBS is a renowned National Standards Body, whose services are preferred locally and regionally.

BOBS Values

- Diligence
- Innovative
- Transparent
- 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 quarterly to reflect the new standards that would have been published within the previous quarter.

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) 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.

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Clients outside Gaborone may fax or mail their orders. Courier charges are currently at P25.00 for standards not more than ten in number. 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.

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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.
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Toll free: 0 800 600 900
Email: infoc@hq.bobstandards.bw

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<tr>
<td>AFD</td>
<td>Agriculture and Food Division</td>
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<td>ASTM</td>
<td>American Society for Testing and Materials</td>
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<td>BCD</td>
<td>Building and Construction Division</td>
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<td>BOBS</td>
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<td>MED</td>
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<td>TCD</td>
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<td>Bakery Products</td>
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<td>Safety and performance of household and similar electrical appliances</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 3-3: 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.

ICS: 23.020.30 Price code: 18 Pages: 48

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

Updated: June 2016
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.

ICS: 23.020.30  
Price code: 10  
Pages: 20

**BOS 3 – 7: 2012 see page 79**

**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.

ICS: 67.080.20  
Price code: 8  
Pages: 16

**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 6-1: 1999**  
**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).

ICS: 01.080.10; 13.100  
Price code: 17  
Pages: 44

**BOS 7: 1999**  
**Emulsion paints**

Requirements for four grades of emulsion paint that are based on synthetic polymers dispersed in a water phase and that are supplied in a matt, semi-matt or semi-gloss finish.

ICS: 87.040  
Price code: 8  
Pages: 16

**BOS 8 – 1: 2008 see page 79**

**BOS 8 – 2: 2012 2nd ed.**  
**Poultry feeds – Part 2: Ostrich feeds – Specification**

This Botswana Standard specifies the basic requirements for ostrich feeds.

ICS: 65.120  
Price code: 8  
Pages: 16

**BOS 9: 2000 see page 79**

**BOS 10: 2000**  
**Paints and varnishes – Varnish for interior use**

Covers the following two types of varnish for interior use on wooden surfaces other than floors and laboratory benches.

ICS: 87.040; 93.080.30  
Price code: 10  
Pages: 20

**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

**BOS 12-1: 2013 2nd ed.**  
**Road markings – Part 1: Single-pack solvent and water borne paints – Specification**
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 of less than six months.

**ICS:** 93.080.30  
**Price code:** 12  
**Pages:** 24

**BOS 13-1: 2000**  
**Solar heating systems for hot water – Part 1: Direct and indirect systems – Code of practice**  
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

**BOS 13-2: 2000**  
**Solar heating systems for hot water – Part 2: Integral collector-tank system – Code of practice**  
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 79

BOS 26: 2009 2nd ed. see page 79

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: 2000  Burnt clay masonry units
Burnt clay masonry units for use in masonry walling
ICS: 91.100.20  Price code: 13  Pages: 28

BOS 29: 2000  Concrete paving blocks
Covers three types, each available in two classes, of precast segmental concrete block for use in the construction of paved surfaces.
ICS: 91.100.30; 93.080.20  Price code: 8  Pages: 16

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

BOS 32: 2009 2nd ed. see page 79
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 79

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 vanishes  
Covers one type of calcium plumbate primer with an alkyd base.  
ICS: 87.040  Price code: 10  Pages: 20  
**BOS 47: 2001**  Paint and vanishes – 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  
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  Price Code: 14  Pages: 32  
This Botswana Standard defines the grading requirements that will be used to assess guesthouses in Botswana
This Botswana Standard defines the grading requirements that will be used to assess self-catering establishments in Botswana.

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.

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.

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.

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.

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.

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.

This Botswana Standard specifies requirements for raw cow’s milk.
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

Specifies the procedures that apply to the effective reconditioning of fire hose reels.

ICS: 13.220.10  Price code: 8  Pages: 16

BOS 66:2014  Globally harmonized system of classification and labelling of chemicals (GHS)
This standard covers the harmonized criteria for the classification of hazardous substances and mixtures, including waste, for their safe transport, use at the workplace or in the home according to their health, environmental and physical hazards. It gives the harmonized communication elements for labelling and safety data sheets.

ICS: 13.300  Price code: 25  Pages: 286

BOS 67: 2003  Administration standard for commercial telecommunications infrastructure
Specifies administration for a generic telecommunications cabling system that will support a multi-product, multi-vendor environment.

ICS: 33.030  Price code: 21  Pages: 62

BOS 68-1: 2005  Solar photovoltaic energy system components – Part 1: Integrated charge controller-inverter
Requirements for integrated charge controller-inverter which shall be fitted on battery-based photovoltaic electric systems installations whose total installed power does not exceed 10 000 peak watt.

ICS: 27.160  Price code: 8  Pages: 18

BOS 68-2: 2005  Solar photovoltaic energy system components – Part 2: Charge controller
Requirements for charge controllers which shall be fitted on battery-based photovoltaic electric systems installations whose total installed power does not exceed 10 000 peak watt.

ICS: 27.160  Price code: 6  Pages: 12

Covers precast prestressed concrete lintels for use in composite action with masonry work.

ICS: 91.100.40  Price code: 8  Pages: 16

BOS 70: 2004  Telecommunications - Commercial grounding (earthing) and bonding - requirements.
Requirements for a uniform telecommunications grounding and bonding infrastructure that shall be followed within commercial buildings where telecommunications equipment will be installed.

ICS: 33.020  Price code: 14  Pages: 32
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 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

BOS 74: 2011 2nd ed.  
**Precast reinforced concrete culverts - Specification**
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

BOS 75: 2011 2nd ed.  
**Reinforced concrete pressure pipes - Specification**
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

BOS 78: 2004  
**Unplasticized polyvinyl chloride (PVC-U) soil, waste and vent pipes and Pipe fittings - Specification.**
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

BOS 80: 2004  
**Unplasticized polyvinyl chloride PVC-U) sewer and drain pipes and pipe fittings – Specification.**
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

BOS 82: 2004  
**Polypropylene pressure pipes - Specification.**
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
**BOS 83: 2004**  
Flexible polyvinyl chloride garden hose - Specification
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**  
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

**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

**BOS 94-2: 2008**  
Glass fibre-reinforced thermosetting plastics (GRP) pipes  
Part 2: Pipes, fittings, and joint assemblies for the conveyance of hazardous chemical substances in industrial applications - Specification
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 allowance 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  
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<table>
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<tr>
<th>Standard Code</th>
<th>Standard Title</th>
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<td>BOS 95-1: 2005</td>
<td>Sawn softwood timber Part 1: General requirements</td>
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<td>BOS 100: 2004</td>
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<td>June 2016</td>
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</tbody>
</table>
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

**BOS 111: 2005**  
**Hand dishwashing and light duty detergent (liquid) – Specification.**  
Specifies the characteristics of liquid detergents for use in soft or hard water for hand dishwashing and for the cleaning of hard surfaces such as painted, floors, ceilings, ceramic and plastic tiles, and the surfaces of equipment.

ICS: 71.100.35
Price code: 10
Pages: 20

**BOS 112: 2005**  
**Detergent – disinfectants based on stabilized inorganic chlorine compounds – Specification.**  
Specifies requirements for two types of detergent-disinfectants based on stabilized inorganic chlorine compounds and other chemical agents.

ICS: 71.100.35
Price code: 13
Pages: 28

**BOS 113: 2005**  
**Detergent – disinfectants based on quaternary ammonium compounds – Specification.**  
This standard specifies requirements for two types of detergent-disinfectant based on quaternary ammonium compounds and other chemical agents (such as compatible surface-active agents and phosphates), that are miscible with water and intended for use on inanimate surface that are free from excessive dirt. This standard is intended for the evaluation of detergent-disinfectants based on quaternary ammonium compounds for general use.

ICS: 71.100.35
Price code: 13
Pages: 28

**BOS 114: 2005**  
**Cereals – Maize grains for human consumption – Specification.**  
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 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
Pneumatic tyres for commercial vehicles and their trailers
– Specification
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

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

White chalks — Specification
This specification covers soft, hard and soft dust-free white chalks.

ICS: 97.180  Price code: 6  Pages: 12

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

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

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

Water quality – Determination of manganese by persulphate method.
Covers the determination of manganese in water and wastewater.

ICS: 13.060.50  Price code: 4  Pages: 8

Water quality – Determination of manganese by atomic absorption spectrometry.
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 addictives.

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  Pages:16

**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.
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; 77.140.50; 91.080.40  
Price code: 8  
Pages: 16

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  
Pages: 16

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

BOS 156: 2005  
**Cereals – Determination of the diastatic power of sorghum – Test method.**  
Specifies a method for the determination of diastatic power of malts prepared from sorghum grain.

ICS: 67.060  
Price code: 6  
Pages: 12

BOS 157: 2005  
**Cereals Sorghum meal and sorghum flour – Specification**  
This standard applies to sorghum meal and sorghum flour intended for direct human consumption.
<table>
<thead>
<tr>
<th>Standard Number</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOS 158: 2011 2nd ed.</td>
<td>High penetration – resistant laminated safety glass for vehicles - Specification</td>
<td>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.</td>
</tr>
<tr>
<td>BOS 160: 2011 2nd ed.</td>
<td>Toughened safety glass for vehicles – Specification</td>
<td>This standard covers toughened safety glass for use in vehicles</td>
</tr>
<tr>
<td>BOS 161-1: 2005</td>
<td>Safety and glazing materials for buildings - Part 1: Safety performance of glazing materials under human impact – Specification</td>
<td>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. <strong>Note:</strong> Provisions on the use of safety glazing materials are contained in SANS 10137 and SANS 17.</td>
</tr>
<tr>
<td>BOS 161-3: 2005</td>
<td>Safety and security glazing materials for buildings – Part 3: Bullet-resistant glazing materials – Specification</td>
<td>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.</td>
</tr>
<tr>
<td>BOS 162: 2005</td>
<td>PVC-U window and door frames for external use - Windows with frames made from PVC-U profiles – Specification</td>
<td>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.</td>
</tr>
</tbody>
</table>
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

BOS 163-2: 2008  
Civil engineering construction – Part 2: General (small works) – Specification
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

BOS 163-3: 2009  
Civil engineering construction – Part 3: Engineer’s office - Specification
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

BOS 163-11: 2006  
Civil engineering construction – Part 11: Gabions and pitching – Code of practice
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

BOS 163-12: 2007  
Civil engineering construction- Part 12: Earthworks (Roads, subgrade) – Specification
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

BOS 163-26: 2008  
Civil engineering construction- Part 26: Bedding (Pipes) – Specification
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

**BOS 163-35: 2007**  Civil engineering construction – Part 35: Base (light pavement structures) – Specification
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

**BOS 163-38: 2007**  Civil engineering construction – Part 38: Segmented paving – Specification
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 W 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 184: 2006  
Solvent- emulsion degreasers – Specification**
This standard specifies the requirements of three types of solvent-emulsion degreasers containing detergents and organic solvents. The degreasers are intended for the cleaning of cleaning of painted and unpainted surfaces of components, machinery and engines that are soiled with oil, grease and similar soils, and on which water may be used during the cleaning process. The degreasers are not intended for use on electrical equipment, delicate machine parts, rolling element bearings, winding steel cables, or aircraft and aircraft components.

Note: As solvent emulsion degreasers can contain solvents that are detrimental to health, it is recommended that these cleaning compounds be used in well-ventilated areas and that prolonged inhalation of vapours and contact of the cleaning compound with the skin be avoided.

ICS: 71.100.40  Price code: 12  Pages: 24

**BOS 186: 2006 see page 79**

**BOS 187: 2006**  **Motor vehicle safety – Rear under-run protection devices –Specification**
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  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 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 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

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, 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

**BOS 205: 2006**  
**Nurse’s woven fabric – Polyester and cotton – Specification**
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 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 threats – 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

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

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

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

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, packing and labelling of chemicals.

ICS: 71.100.40

BOS 229: 2006  Polish stripper – Specification
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.

ICS: 71.100.40

BOS 231: 2006  Health, safety and environmental guidelines for the construction and operation of timber treatment plants – Code of practice
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.

ICS: 13,100; 79.020

This Botswana Standard specifies the general requirements for materials, workmanship, packing, care-labelling, marking and inspection of school clothing.

ICS 61.020

This Botswana Standard covers the requirements for the materials, sizes and make of school blazers for boys and girls.

ICS 61.020

This Botswana Standard specifies the materials, cut, make and trim of boys’ trousers and shorts.
This standard specifies the materials, cut, make and trim of shirts for boys and girls.

This standard specifies the materials, cut, make and trim of dresses, tunics and gym dresses.

This standard specifies the materials, cut, make and trim of girls' slacks and skirts.

This Botswana Standard covers the requirements for the materials, size, and make of school jerseys and cardigans.

This Botswana Standard covers the requirements for the materials, size and make of track suits.

This Botswana Standard covers the requirements for the materials, size and make of athletic wear made from woven or knitted fabrics (or both).

This Botswana Standard covers the requirements for two types of knee-high stockings and two types of ankle socks for school wear.

This Botswana Standard specifies the basic requirements for guinea fowl feeds.

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.
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

BOS 235-3: 2007  
School wear fabrics – Part 3: Polyester and wool fabrics - Specification  
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

BOS 235-4: 2007  
School wear fabrics – Part 4: Polyester and viscose fabrics - Specification  
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

BOS 235-5: 2007  
School wear fabrics – Part 5: Polyester and cotton fabrics - Specification  
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 59.080.30  
Price code: 6  
Pages: 12

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 91.140.70  
Price code: 10  
Pages: 20
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 245: 2008  
**Chemical resistant gloves – Specification**
This Botswana Standard covers six types of chemical resistant gloves (either fabric-reinforced or un-reinforced), classified according to elastomeric material. All types are resistant to aqueous solutions of acids, acid salts, alkalis, alkaline salts and alcohols.

ICS 13.340.40  
Price code: 10  
Pages: 20

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: 2007  
**Furniture- Part 1: Seating**
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 cognisance be taken of foreign standards when export of furniture is to be considered.

ICS 97.140  
Price code: 17  
Pages: 44

BOS 251-2: 2007  
**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 cognisance be taken of foreign standards when export of furniture is to be considered.

ICS 97.140  
Price code: 12  
Pages: 24

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 cognisance be taken of foreign standards when export of furniture is to be considered.

ICS 97.140  
Price code: 14  
Pages: 32

**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  
Price code: 10  
Pages: 20

**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  
Price code: 10  
Pages: 20

**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  
Price code: 10  
Pages: 20

**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 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 addictives.

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

ICS 77.080.10  Price code: 17  Pages: 44

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.

ICS: 91.100.40  Price code: 14  Pages: 32

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.

ICS: 79.040; 91.060.30    Price code: 22    Pages: 68

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.

ICS: 91.060.20; 79.040    Price code: 8    Pages: 16

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.

ICS: 79.040    Price code: 8    Pages: 16

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. Sweet peppers for industrial processing as well as any other shaped sweet peppers are excluded.

ICS: 67.080.20    Price code: 6    Pages: 12

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.

ICS: 91.060.20    Price code: 6    Pages: 12

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)

ICS 91.060.20; 79.040    Price code: 12    Pages: 24

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

sheeting, sheets and pillowcases – Specification
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

BOS 288-3: 2009  Woven household fabrics and articles Part 3: Cotton
sheeting, sheets and pillowcases – Specification
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

BOS 288-4: 2009  Woven household fabrics and articles Part 4: Polyester-
an-and-cotton sheeting, sheets and pillowcases – Specification
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

BOS 288-6: 2009  Woven household fabrics and articles Part 6: Cotton
curtain fabrics – Specification
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.

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 dishcloths.

ICS 59.080.30  Price code: 8  Pages: 16

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

ICS: 91.140.70  Price code: 10  Pages: 20

**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.

ICS: 91.140.70  Price code: 8  Pages: 16

**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.

ICS: 91.140.70  Price code: 10  Pages: 20

**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.

ICS: 91.060.50  Price code: 10  Pages: 20

**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.

ICS: 97.140  Price code: 17  Pages: 44


This Botswana Standard specifies requirements for pet (cats and dogs) foods.

ICS: 65.120  Price code: 8  Pages: 16

**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.
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.

This 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.

This Botswana Standard gives recommendations for the installation of laboratory furniture and fittings that are specific to bench scale laboratories.

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.

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.

ICS 29.140.20; 43.040.20  Price code: 8  Pages: 16

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.

ICS 29.140.20; 43.040.20  Price code: 13  Pages: 28

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  Price code: 13  Pages: 28

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.

ICS: 13.060.20  Price code: 12  Pages: 24

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.

ICS: 91.060.20  Price Code: 17  Pages: 44
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.

ICS: 97.040.10  Price code: 10  Pages: 20

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.
ICS: 91.140.70  Price code: 8  Pages: 16

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

ICS: 13.060.45    Price Code: 8    Pages: 16

**BOS 370: 2010**  Detergent skin cleansers – Specification
This Botswana Standard specifies characteristics of three types of detergent skin cleansers that are suitable for use in detergent dispensers.

ICS: 71.100.40; 71.100.70    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.
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.

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

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.

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.

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.

This standard specifies the requirements for two categories of strong rooms intended for the storage of firearms and their ammunition

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.

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**  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  Price Code: 25  Pages: 80

**BOS 450: 2011**  Peanut butter – Specification

This Botswana Standard specifies requirements for peanut butter for direct human consumption

ICS: 67.080.20  Price Code: 6  Pages: 12

**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


**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**  
**Additives in fruit and vegetable drinks and non-alcoholic drinks – Specification**
This Botswana Standard specifies requirements for use of additives 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 beetroots 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 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
a) are category-sized in accordance with IEC 60076-1 up to and including 3 150 kVA,
b) have rated maximum voltages (Um) that do not exceed 36 kV,
c) have uniformly insulated windings,
d) 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
e) 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:
a) at an altitude that does not exceed 1 800 m;
b) at a system voltage frequency of 50 Hz; and
c) 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 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: 20

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 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 2230 mm used in the conveyance of water and other aqueous fluids.

ICS: 77.140.75 Price Code: 10 Pages: 20

**BOS 590: 2013**  
**Head Lettuce – Specification**  
This Botswana standard applies to fresh head lettuce including crisphead 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 612:2014**  
**Motor vehicles of categories M2 and M3 – Specification**  
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 2400 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.

ICS: 53.040.20 Price Code: 10 Pages: 20

**BOS 613-3:2014**  
**Conveyor belt idlers – Part 3: Performance specifications for troughed belt conveyor idlers (metallic and non-metallic) for idler roller rotational speeds of up to 750 revolutions per minute**  
Specifies the performance specifications for troughed belt conveyor 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.

ICS: 53.040.20 Price Code: 14 Pages: 32

**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.
ICS: 67.080.20  Price Code: 8  Pages: 16

**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.

ICS: 67.080.20  Price Code: 8  Pages: 16

**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.

ICS: 75.100  Price Code: 10  Pages: 20

**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 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  Price code: 12  Pages: 24

**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  Price Code: 12  Pages: 24

**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  Price Code: 6  Pages: 12

**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  Price Code: 13  Pages: 28

**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  Price Code:16  Pages: 40
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

BOS EN STANDARDS

BOS EN 12199: 1998  Resilient floor coverings – Specifications for homogenous and heterogeneous relief rubber floor coverings
Characteristics of homogeneous and heterogeneous relief or studied rubber floor coverings, supplied in either tile or roll form.

ICS: 97.150  Price code: 6  Pages: 12

BOS EN 197-1: 2000 see page 82

BOS ISO STANDARDS

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 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
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 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 1211: 1999  Milk -- Determination of fat content -- Gravimetric method (reference method)
The reference method for the determination of the fat content of milk.

ICS 67.100.10  Price code: 10  Pages: 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

BOS ISO 1920-2: 2005  
Testing of concrete – Part 2 Properties of fresh concrete  
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

BOS ISO 1920-3: 2004  
Testing of concrete - Part 3: Making and curing test specimens  
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

BOS ISO 1920-4: 2005  
Testing of concrete - Part 4: Strength of hardened concrete  
This part of ISO 1920 specifies procedures for testing the strength of hardened concrete.

ICS 91.100.30  
Price code: 16  
Pages: 36

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  
Price code: 12  
Pages: 24

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  
Price code: 10  
Pages: 20

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  
Price code: 16  
Pages: 36

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  
Price code: 24  
Pages: 88
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  
Price code: 13  
Pages: 28

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  
Price code: 13  
Pages: 28

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

BOS ISO 4064-1: 2005  
**Measurement of water flow in fully charged closed circuits – Meters for cold potable water and hot water – Part 1: Specifications**

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 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

BOS ISO 4427-2: 2007  
**Plastics piping systems – Polyethylene (PE) pipes and fittings for water supply – Part 2: Pipes – Specification**

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

ICS: 67.100.01  Price code: 8  Pages: 16

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.

ICS: 67.100.01  Price code: 8  Pages: 16

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.

ICS: 13.060.50  Price code: 12  Pages: 24

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 [23]

ICS: 13.060.45  Price code: 15  Pages: 33

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.

ICS: 13.060.45  Price code: 15  Pages: 33

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.

ICS: 13.060.45  Price code: 8  Pages: 12

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.

ICS: 13.060.45  
Price code: 13  
Pages: 28

BOS ISO 5667–6: 2005  
Water quality–Sampling - Part 6: Guidance on sampling of rivers 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

BOS ISO 5667–10: 1992  
Water quality – Sampling – Part 10: Guidance on sampling of waste waters
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

BOS ISO 5667–11: 2009  
Water quality–Sampling - Part 11: Guidance on sampling of groundwaters
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

BOS ISO 5682-1: 1996  
Equipment for crop protection - Spraying equipment -- Part 1: Test methods for sprayer nozzles

ICS: 65.060.40  
Price code: 13  
Pages: 28

BOS ISO 5682-2: 1997  
Equipment for crop protection- Spraying equipment -- Part 2: Test methods for hydraulic sprayers
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

BOS ISO 5682-3: 1996  
Equipment for crop protection - Spraying equipment -- Part 3: Test method for volume/hectare adjustment systems of agricultural hydraulic pressure sprayers
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

**BOS ISO 5961: 1994**

Water quality – Determination of cadmium by atomic absorption spectrometry.

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

**BOS ISO 6058: 1984**


Titrimetric 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

**BOS ISO 6059: 1984**

Water quality – Determination of the sum of calcium and magnesium – EDTA titrimetric method.

Titrimetric 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

**BOS ISO 6461-2: 1986**

Water quality – Detection and enumeration of the spores of sulphide reducing anaerobes (clostridia) – Part 2: Method by membrane filtration.

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

**BOS ISO 6490-1: 1985**


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

**BOS ISO 6491: 1998**


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 phosphomolybdate.
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)

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.

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.

BOS ISO 6651: 2001  Animal feeding stuffs – Semi-quantitative determination of aflatoxin B<sub>1</sub> – Thin-layer chromatographic methods
This International Standard specifies two methods for the determination of aflatoxin B<sub>1</sub> in animal feeding stuffs. These methods can only be used for semi-quantitative determinations.

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

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.

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

Method for the measurement of the electrical conductivity of all types of water.
ICS: 13.060.60  Price code: 6  Pages: 12

Method for the determination of nitrate ion in water.
ICS: 13.060.50  Price code: 6  Pages: 12

Method for the determination of nitrate ion in water.
ICS: 13.060.50  Price code: 6  Pages: 12

Specifies a method for the determination of nitrate ion in water.
ICS: 13.060.50  Price code: 6  Pages: 12

This part of ISO 7899 specifies a miniaturized method for the detection and enumeration of major intestinal enterococci in surface and waste waters, particularly those rich in suspended matter. This method is not suitable for drinking water and any other type of water for which the guideline count is less than 15 per 100ml.
ICS: 13.060.45  Price code: 13  Pages: 28

BOS ISO 8026: 1995  Agricultural irrigation equipment -- Sprayers -- General requirements and test methods
ICS: 65.060.35  Price code: 10  Pages: 20

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

**BOS ISO 8968-2: 2001**

**Milk – Determination of nitrogen content – Part 2: Block digestion method (Macro method)**

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

**BOS ISO 8968-4: 2001**

**Milk – Determination of nitrogen content – Part 4: Determination of non-protein nitrogen content**

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

**BOS ISO 8968-5: 2001**

**Milk – Determination of nitrogen content – Part 5: Determination of protein-nitrogen content**

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

**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
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
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

**BOS ISO 11014-1: 1994**  
**Safety data sheet for chemical products -- Part 1: Content and order of sections.**  
Presents 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


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 ™ 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 millilitre by the most probable number (MPN) technique after incubation at 30°C.

ICS: 07.100.30  Price code: 10  Pages: 20


This part of ISO 11866 ™ IDF 170 specifies a method for the enumeration of presumptive Escherichia coli by means of a colony-count technique 44 °C.

ICS: 07.100.30  Price code: 8  Pages: 16
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.

ICS: 13.060.50  Price code: 8  Pages: 16

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

ICS: 13.060.50  Price code: 10  Pages: 20

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 assessing its suitability.

ICS: 91.100.30  Price code: 12  Pages: 24

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.

ICS: 91.100.25, 01.040.91  Price code: 21  Pages: 64

BOS ISO 13688: 1998  Protective clothing – General requirements
This International Standard specifies general requirements and recommendations for ergonomics, ageing, sizing and marking of protective clothing, and for information supplied by the manufacturer.

ICS: 13.340.10  Price code: 10  Pages: 20

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

ICS: 67.060  Price code: 13  Pages: 28

BOS ISO 14001: 2004  Environmental management systems – Requirements with guidance for use
This International Standard specifies requirements for an environmental management System, to enable an organization to develop and implement a policy and objectives which take into account legal requirements and other requirements to which the organization subscribes and information about significant environmental aspects.

ICS: 13.020.10  Price code: 16  Pages 36
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 14021: 1999  Environmental labels and declarations – Self – declared environmental claims (Type I1 environmental labelling)
Requirements for self – declared environmental claims, including statements, symbols and graphics, regarding products.

ICS: 13.020.50  Price code: 15  Pages: 35

BOS ISO 14031: 1999  Environmental management – environmental Performance evaluation – guidelines
Guidance on the design and use of environmental performance evaluation within an organization.

ICS: 13.020.10  Price code: 17  Pages: 44

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

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.
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.
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 21003-1: 2008
Multilayer piping systems for hot and cold water installations inside buildings –Part 1: General – Specification
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: 10  Pages: 20

BOS ISO 21003-2: 2008
Multilayer piping systems for hot and cold water installations inside buildings Part 2: Pipes - Specification
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: 13  Pages: 28

BOS ISO 21003-3: 2008
Multilayer piping systems for hot and cold water installations inside buildings Part 3: Fittings - Specification
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 21003-5: 2008
Multilayer piping systems for hot and cold water installations inside buildings – Specification Part 5: Fitness for purpose of the system
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

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

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

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

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 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.

ICS: 23.020.30  Price code: 13  Pages: 28

This standard specifies the basic requirements for chicken (layers, broilers and breeders) feeds.

ICS: 65.120  Price code: 8  Pages: 16

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 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 32: 2009 2nd ed.  Water quality: Drinking water
Three classes of water, defined in terms of physical, organoleptic, chemical and microbiological constituents that are suitable as drinking water.

ICS: 13.060.20  Price code: 8  Pages: 16
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 186: 2006  Plastic carrier bags and flat bags – Specification
This standard specifies requirements for carrier bags and flat bags that are made from thermoplastic 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 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: 16  Pages: 36
**LIST OF STANDARDS CLASSIFIED BY SUBJECT**

<table>
<thead>
<tr>
<th>Subject Code</th>
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### 03.100 Company organization and management

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Hotels and related establishments – Grading requirements – Part 2: Selected serviced hotels - Specification

Hotels and related establishments – Grading requirements – Part 3: Game lodges and tented camps - Specification

Hotels and related establishments – Grading requirements – Part 4: Bed and Breakfast – Specification

Hotels and related establishments – Grading requirements – Part 5: Guesthouses - Specification

Hotels and related establishments – Grading requirements – Part 6: Self-catering establishments.

### 03.120 Quality

#### 03.120.10 Quality management and quality assurance

#### BOS ISO 9000: 2005
Quality management systems – Fundamentals and vocabulary

#### BOS ISO 9001: 2015 (IDT) 5th ed
Quality management systems: Requirements

#### BOS ISO 9004: 2009
Managing for the sustained success of an organization – A quality management approach

#### BOS ISO 10002: 2004
Quality Management – Customer satisfaction – Guidelines for complaints handling in organizations

#### BOS ISO 15189: 2012
Medical laboratories – Requirements for quality and competence

#### BOS ISO/TR 10013: 2001
Guidelines for quality management system documentation

#### BOS ISO 15161: 2001
Guidelines on the application of ISO 9001:2000 for the food and drink industry

#### BOS ISO 19011: 2011
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

BOS ISO 2859-2: 1985  
ed. 1  
Sampling procedures for inspection by attributes – Part 2: Sampling plans indexed by limiting quality (LQ) for isolated lot inspection

BOS ISO 2859-3: 1991  
ed. 1  
Sampling procedures for inspection by attributes – Part 3: Skip – lot sampling procedures

07.060  Geology, Geodesy, Geography

No current standards

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

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  
Milk and milk products – Enumeration of presumptive Escherichia coli – Part 2: Colony-count technique at 44 °C using membranes

11  Health Care Technology

11.100  Laboratory medicine

No current standards

11.100.01  Laboratory medicine in general

BOS ISO 15189: 2007  
ed. 1  
TC GPD 1  
Medical laboratories -- Particular requirements for quality and competence

11.140  Hospital Equipment

No current standards

11.180.01  Aids for disabled & handicapped persons in general

11.200  Birth control. Mechanical contraceptives

BOS ISO 4074: 2002  
ed. 1  
TC CD6  
Natural latex rubber condoms – Requirements and test methods
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13.060.20 Drinking water

- **BOS ISO 5667 – 6: 2005** ed. 2 TC EMD 2
  Water quality – Sampling - Part 6: Guidance on sampling of rivers and streams.

- **BOS ISO 5667 – 11: 2009** ed. 2 TC EMD 2

13.060.30 Sewage water

No current standards

13.060.45 Examination of water in general

- **BOS ISO 5667–10: 1992** ed. 1 TC EMD 2

- **BOS 262: 2011** ed. 2 TC EMD 2
  Bottled natural water - Specification

- **BOS 306: 2008** ed. 1 TC EMD 2
  Bottled water – Code of hygiene practice

- **BOS 463: 2011** ed. 1 TC EMD 2
  Water quality for irrigation – Specification

- **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 TC EMD 2
Water quality – Detection and enumeration of intestinal enterococci in surface and waste water – Part 1: Miniaturized method (Most Probable Number) by inoculation in liquid medium

13.060.50 Examination of water for chemical substances

BOS 38: 2001 ed. 1 TC EMD 2
Water quality – Determination of colour

BOS 82: 2004 ed. 1 TC BCD 5
Polypropylene pressure pipes - Specification.

BOS 83: 2004 ed. 1 TC BCD5
Flexible polyvinyl chloride garden hose - Specification.

BOS 94: 2004 ed. 1 TC EMD 2
Glass-fibre-reinforced thermosetting plastic (GRP) pipes – Specification Part 1: Pipes for water supply, sewerage and drainage

BOS 123: 2005 ed.1 TC EMD 2
Water quality – Determination of manganese by persulphate method.

BOS 124: 2005 ed.1 TC EMD 2
Water quality – Determination of manganese by atomic absorption spectrometry

BOS ISO 5666: 1984 ed. 1 TC EMD 2
Water quality – Determination of mercury.

BOS ISO 5666-3:1984 ed. 1 TC EMD 2
Water quality – Determination of total mercury by flameless atomic absorption spectrometry- Part 3: Method after digestion with bromine.

BOS ISO 5961: 1994 ed. 2 TC EMD 2
Water quality – Determination of cadmium by atomic absorption spectrometry.

BOS ISO 6058: 1984 ed. 1 TC EMD 2

BOS ISO 6059: 1984 ed. 1 TC EMD 2
Water quality – Determination of the sum of calcium and magnesium – EDTA titrimetric method

BOS ISO 6222: 1999 ed. 1 TC EMD 2
Water quality – Enumeration of culturable micro-organisms – Colony count by inoculation in a nutrient agar culture medium

BOS ISO 7393-1: 1985 ed. 1 TC EMD 2
Water quality – Determination of free chlorine and total chlorine – Part 1: Titrimetric method using N,N-diethyl-1,4-phenylenediamine.

BOS ISO 7393-2: 1985 ed. 1 TC EMD 2
Water quality – Determination of free chlorine and total chlorine – Part 2: Colorimetric method using N,N-diethyl-1,4-phenylenediamine, for routine control purposes.

BOS ISO 7393-3: 1990 ed. 2 TC EMD 2
Water quality – Determination of free chlorine and total chlorine – Part 3: Iodometric titration method for the determination of total chlorine.

BOS ISO 7890-1: 1986 ed. 1 TC EMD 2
Water quality – Determination of nitrate – Part 1: 2,6 – Dimethylphenol spectrometric method

BOS ISO 7890-2: 1986 ed. 1 TC EMD 2
Water quality – Determination of nitrate – Part 2: 4 – Fluorophenol spectrometric method after distillation

BOS ISO 7890-3: 1988 ed. 1 TC EMD 2
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<td>Fire hose reels (with semi-rigid hose) - Specification</td>
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<td>The reconditioning of fire – fighting equipment Part 1: Portable rechargeable fire extinguishers.</td>
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<td>Fire fighting – Portable fire extinguishers – Performance and construction</td>
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13.220.20 Protection against fire

BOS 196: 2006 Fire extinguishing media - Powders - Specification ed. 1 TC MED 6
BOS 394: 2010 Fire-resistant record protection equipment – Specification ed. 1 TC MED 4
BOS 396: 2010 Fire resisting door units for record rooms – Specification ed. 1 TC MED 4
BOS 397: 2010 Fire doors and fire shutters – Specification ed. 1 TC MED 4

13.300 Protection against dangerous goods

BOS 66:2014 Globally harmonized system of classification and labelling of chemicals (GHS) ed. 1

13.310 Protection against crime

BOS 334: 2010 Servicing, repair and reconditioning of safes, strong room doors, vault doors and fire resistant equipment – Code of practice ed. 1 TC MED 4
BOS 393: 2010 Strong room and vault doors - Specification ed. 1 TC MED 4
BOS 404: 2010 The construction of strongrooms – Code of practice ed. 1 TC MED 4

13.340.10 Protective clothing

BOS 317: 2009 Coats and jackets (protective, unlined) – Specification ed. 1 TC CD 4
BOS 455: 2010 Boiler suits and workwear suits – Specification ed. 1 TC CD 4
BOS ISO 13688: 1998 Protective clothing -- General requirements ed. 1

13.340.20 Head protective equipment

BOS ISO 3873: 1977 Industrial safety helmets ed. 1
BOS ISO 4849: 1981 Personal eye-protectors – Specifications ed. 1

13.340.40 Hand and arm protection

BOS 245: 2008 Chemical resistant gloves – Specification ed. 1 TC CD 4

13.340.99 Other protective equipment

No current standards
17 Metrology and measurement, physical phenomena

17.140.01 Acoustic measurements and noise abatement in general

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17.140.30 Noise emitted by means of transport

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17.140.50 Electroacoustics

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19.120 Particle size analysis. Sieving

No current standards

21 Mechanical systems and components for general use

21.060.50 Pins, nails

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21.100 Bearings

No current standards

21.100.01 Bearings in general

No current standards

23 Fluid storage devices

23.020 Fluid storage devices in general

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23.020.10 Stationary containers & tanks

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23.020.20  Vessels and containers mounted on vehicles

No current standards

23.020.30  Pressure vessels, gas cylinders

BOS 3-1: 2002  TC MED 2
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 3000 l per installation

BOS 3-4: 2005  TC MED 2
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

BOS 3-3: 2011  TC MED 2
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

BOS 3 – 7: 2012
The handling, storage and distribution of liquefied petroleum gas in domestic, commercial and industrial institutions - Part 7: Storage and filling sites for refillable liquefied petroleum gas (LPG) containers of capacity not exceeding 48kg

BOS 118: 2005  ed. 1  TC MED 5
Single stage low pressure regulators for liquefied petroleum gas (LPG) – Specification

BOS ISO 4706: 1989  ed. 1  TC MED 2
Refillable welded steel gas cylinders

23.040  Pipeline components and pipelines

23.040.01  Pipeline components & pipelines in general

No current standards

23.040.10  Iron and steel pipes

No current standards

23.040.20  Plastics pipes

BOS 78: 2004  ed. 1  TC BCD 5
Unplasticized polyvinyl chloride (PVC-U) soil, waste and vent pipes and Pipe fittings - Specification.

BOS 80: 2004  ed. 1  TC BCD 5
Unplasticized polyvinyl chloride (PVC-U) sewer and drainpipes and pipe fittings – Specification.

BOS 94-2: 2008  ed. 1  TC BCD 5

BOS 94-3: 2008  ed. 1  TC BCD 5
Glass fibre-reinforced thermosetting plastics (GRP) pipes Part 3: Pipes, fittings, and ancillaries for underground (buried) fire protection services – Specification.

BOS ISO 161-1: 1996  ed. 3  TC BCD 5
Thermoplastics pipes for the conveyance of fluids -- Nominal outside diameters and nominal pressures - Part 1: Metric series
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**23.040.40** Metal fittings

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**23.040.45** Plastic fittings

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**23.040.50** Pipes and fittings of other materials

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**23.040.70** Hoses and hose assemblies

**23.040.80** Seals for pipe and hose assemblies

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BOS 71: 2004 ed. 1 TC EED 4
Domestic solar heating system for hot water - Collector - Specification.

BOS 151: 2005 ed. 1 TC EED 4
Industrial solar heating systems for hot water – On site test method – thermal performance

BOS ISO 9459-1: 1993 ed. 1 TC EED 1
Solar heating – Domestic water heating systems – Part 1: Performance rating procedure using indoor test methods

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Solar heating – Domestic water heating systems – Part 2: Outdoor test methods for system performance characterization and yearly performance prediction of solar-only systems

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Solar heating – Domestic water heating systems – Part 3: Performance test for solar plus supplementary systems

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Test method for solar collectors – Part 1: Thermal performance of glazed liquid heating collectors including pressure drops

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Test method for solar collectors – Part 2: Qualification test procedures

BOS IEC 61194: 1992 ed. 1 (7)
Characteristic parameters of stand-alone photovoltaic systems.

BOS IEC 61215: 2005 ed. 1 (18)
Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval.

27.200 Refrigeration technology

No current standards

29.060.20 Cables

BOS IEC 60227-1: 1998 ed. 2 (10)
Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 1: General requirements.

BOS IEC 60227-2: 2003 ed. 2 (6)
Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 2: Test methods.

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

29.120 Electrical accessories

29.120.10 Conduits for electrical purposes

29.120.30 Plugs, socket Outlets, couplers

BOS 41-1: 2001 ed. 1 TC EED 2
13 A plugs, socket – outlets, adaptors and connection units – Part 1: Rewirable & non-rewirable 13 A fused plugs

BOS 41-2: 2001 ed. 1 TC EED 2
13 A plugs, socket – outlets, adaptors and connection units – Part 2: switched and unsswitched socket – outlets.

BOS 41-3: 2001 ed. 1 TC EED 2
BOS 41-4: 2009  ed. 1  TC EED 2

29.140.20  Incandescent lamps

BOS 303-1: 2008  ed. 1  TC MED 5

BOS 303-2: 2008  ed. 1  TC MED 5
Lights for motor vehicles - Part 2: Headlights

BOS 303-3: 2008  ed. 1  TC MED 5
Lights for motor vehicles - Part 3 - Secondary lights

29.140.40  Luminaires

BOS IEC 60598-1: 2003  ed. 6
Luminaires - Part 1: General requirements and tests Edition: 6.0

BOS IEC 60598-2-1: 1979  ed. 1
Luminaires – Part 2: Particular requirements – Section One – Fixed general purpose luminaires

BOS IEC 60598-2-2: 2002  ed. 2
Luminaires – Part 2: Particular requirements –Section 2: recessed luminaires

BOS IEC 60598-2-3: 2002  ed. 3
Luminaires – Part 2-3: Particular requirements – Luminaires for road and street lighting

BOS IEC 60598-2-4: 1997  ed. 2
Luminaires – Part 2: Particular requirements – Section 4: Portable general purpose luminaries

BOS IEC 60598-2-5: 1997  ed. 2
Luminaires – Part 2-5: Particular requirements – Floodlights

BOS IEC 60598-2-6: 1994  ed. 1
Luminaires – Part 2: Particular requirements – Section 6: Luminaires with built-in transformers for filament lamps

BOS IEC 60598-2-7:1982  ed. 1
Luminaires – Part 2: Particular requirements – Section Seven – Portable luminaires for garden use

BOS IEC 60598-2-8:  ed. 2
Luminaires – Part 2-8: Particular requirements – Handlamps

BOS IEC 60598-2-9: 1987  ed. 2
Luminaires – Part 2: Particular requirements – Section Nine – Photo and film luminaires (non-professional)

BOS IEC 60598-2-10: 2003  ed. 2
Luminaires – Part 2: Particular requirements – Section Ten – Potable child-appealing luminaries

BOS IEC 60598-2-17: 1984  ed. 1
Luminaires – Part 2: Particular requirements – Section Seventeen – Luminaires for stage lighting, television and film studios (outdoor and indoor)

BOS IEC 60598-2-18: 1993  ed. 1
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BOS IEC 60598-2-19: 1981  ed. 1
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BOS IEC 60598-2-20: 2002  ed. 1
Luminaires – Part 2-20: Particular requirements – Lighting chains
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Luminaires – Part 2:22: Particular requirements – Luminaires for emergency lighting

ed. 1  
Luminaires – Part 2:23: Particular requirements – Extra low voltage lighting systems for filament lamps

BOS IEC 60598-2:24: 1997  
ed. 1  
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BOS IEC 60598-2:25: 1994  
ed. 1  
Luminaires – Part 2: Particular requirements – Section 25: Luminaires for use in clinical areas of hospitals and health care buildings

29.180  
Transformers, reactors

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.

BOS IEC 60896-21: 2002  
ed. 1.0b  
Stationary lead-acid batteries – Part 21: Valve regulated types – Methods of test.

BOS IEC 60896-22: 2004  
ed. 1.  
Stationary lead-acid batteries – Part 22: Valve regulated types – Requirements

BOS IEC 61056-2: 2002  
ed. 1.  
General purpose lead-acid batteries (Valve regulated types) – Part 2: Dimensions, terminals and marking

BOS IEC 61056-22: 2002  
ed. 2.0b  
General purpose lead-acid batteries (Valve regulated types) – General requirements and functional characteristics – Methods of test.

29.240.20  
Power transmission & distribution lines

BOS 513-1: 2012  
ed. 1.  
TC EED 2  
Conductors for overhead electrical transmission lines – Part 1: Copper wires and stranded copper conductors

BOS 513-2: 2012  
ed. 1.  
TC EED 2  
Conductors for overhead electrical transmission lines – Part 2: Stranded aluminium conductors

BOS 513-3: 2012  
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Conductors for overhead electrical transmission lines – Part 3: Aluminium conductors, steel reinforced

33  
Telecommunications, Audio and Video Engineering

33.020  
Telecommunications in general

BOS 67: 2003  
ed. 1  
TC EED 3  
Administration standard for commercial telecommunications infrastructure

BOS 70: 2004  
ed. 1  
TC EED 3  
Telecommunications - Commercial grounding (earthing) and bonding - requirements.

ed. 1  
TC EED 3  
Information technology – Generic cabling for consumer premises

33.040  
Telecommunication systems

No current standards
33.040.20  Transmission systems

No current standards

33.120  Components and accessories for telecommunications equipment

33.12.20  Wires and symmetrical cables

BOS ISO/IEC 17020: 2012  ed. 1  TC GPD 1
Conformity assessment – Requirements for the operation of various types of bodies performing inspection

35  Information Technology. Office Machines

35.040  Character sets and information coding

BOS ISO/IEC 17799: 2005  ed. 1  TC EED 3
Information technology – Security techniques – Code of practice for information security management

35.040.99  Equipment, Casino

BOS 202-1: 2006  ed. 1  TC GPD 3
Gaming equipment - Part 1: Casino equipment - Specification

BOS 202-2: 2006  ed. 1  TC GPD 3
Gaming equipment - Part 2: Monitoring and control systems for gaming equipment

BOS 202-3: 2006  ed. 1  TC GPD 3
Gaming equipment - Part 3: Wagering record keeping systems

BOS 202-4: 2006  ed. 1  TC GPD 3
Gaming equipment - Part 4: Local area and wide area jackpot and progressive jackpot equipment

BOS 202-5: 2006  ed. 1  TC GPD 3
Gaming equipment - Part 5: Tokens

35.200  Interface and interconnection equipment

35.240.99  IT Applications in other fields

No current standards

43  Road Vehicle Engineering

43.020  Road vehicles in general

BOS 57: 2009  ed. 2  TC MED 5
The testing of motor vehicles for roadworthiness – code of practice

BOS 121: 2005  ed. 1  TC MED 5
The measurement of noise emitted by road vehicles when stationary – Code of practice

BOS 122: 2005  ed. 1  TC MED 5
Engine speed (S-values), reference sound levels and permissible sound levels of stationary road vehicles – Code of practice.

43.040.10  Electrical and electronic equipment
## 43.040.20 Lighting, signalling and warning devices

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**Note:**
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**Note:**
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## 43.080 Commercial Vehicles

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## 53 Materials Handling Equipment

### 53.040 Continuous handling equipment

## 53.040.20 Components for conveyors

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**Note:**
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## 55.020 Packaging and distribution of goods in general

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59.100.10 Textile glass materials

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61 Clothing industry

61.020 Clothes

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<td>Industrial boots (including safety boots) with direct-vulcanized soles and heels – Specification</td>
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<td>BOS 426: 2012</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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BOS ISO 730-2:1979
Agricultural wheeled tractors -- Three-point linkage -- Part 2: Category 1 N (Narrow hitch)

BOS ISO 789-1:1990
Agricultural tractors -- Test procedures -- Part 1: Power tests for power take-off

BOS ISO 789-2:1993
Agricultural tractors -- Test procedures -- Part 2: Rear three-point linkage lifting capacity

BOS ISO 789-6:1982
Agricultural tractors -- Test procedures -- Part 6: Centre of gravity

**65.060.35 Irrigation and drainage equipment**

BOS ISO 8026: 1995
Agricultural irrigation equipment -- Sprayers -- General requirements and test methods

**65.060.40 Plant care equipment**

BOS ISO 5681: 1992
Equipment for crop protection -- Vocabulary

BOS ISO 5682-1: 1996
Equipment for crop protection -- Spraying equipment -- Part 1: Test methods for sprayer nozzles

BOS ISO 5682-2: 1997
Equipment for crop protection -- Spraying equipment -- Part 2: Test methods for hydraulic sprayers

BOS ISO 5682-3: 1996
Equipment for crop protection -- Spraying equipment -- Part 3: Test method for volume/hectare adjustment systems of agricultural hydraulic pressure sprayers

**65.120 Animal feeding stuffs**

BOS 8 – 1: 2008
Poultry feeds -- Part 1: Chicken feeds -- Specification

BOS 8 – 2: 2012 2nd ed.
Poultry feeds -- Part 2: Ostrich feeds -- Specification

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
ed. 1  TC AFD2

BOS ISO 6651: 2001
Animal feeding stuffs – Semi-quantitative determination of aflatoxin B₁ – Thin-layer chromatographic methods
ed. 1  TC AFD2

BOS ISO 6866: 1985
Animal feeding stuffs – Determination of free and total gossypol
ed. 1  TC AFD2

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67.020  Processes in the food industry

BOS 686:2015  ed. 1
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.  ed. 1  TC AFD3
Cereals – Sorghum grains for human consumption

BOS 63:2002  ed. 1  TC AFD3
Cereals – Classification and grading of sorghum grains intended for human consumption

BOS 114:2005  ed. 1  TC AFD3
Cereals – Maize grains for human consumption – Specification

BOS 115: 2005  ed. 1  TC AFD5
Bakery products – Bread – Specification

BOS 155: 2005  ed. 1  TC AFD3
Cereals – Sorghum malt

BOS 156: 2005  ed. 1  TC AFD3
Cereals – Determination of the diastatic power of sorghum – Test method.

BOS 157: 2005  ed. 1  TC AFD3
Cereals Sorghum meal and sorghum flour – Specification

BOS 201: 2006  ed. 1  TC AFD3
Cereals and pulses – Certain pulses – Specification

BOS 213: 2006  ed. 1  TC AFD3
Cereals – Milled maize products – Specification

BOS 298: 2008  ed. 1  TC AFD3
Cereals – Sorghum products – Specification
Cereals – Whole and dehulled pearl millet grains - Specification

BOS ISO 6644: 2002  ed. 1
Flowing cereals and milled cereal products – Automatic Sampling by mechanical means

BOS ISO 11050: 1993  ed. 1
Wheat flour and durum wheat semolina – Determination of impurities of animal origin

BOS ISO 11051: 1994  ed. 1
Durum wheat (Triticum durum Desf.) – Specification

BOS ISO 13690: 1999  ed. 1
Cereals, pulses and milled products – Sampling of static batches

67.080  Fruits. Vegetables

BOS 90: 2004  ed. 1
Fruits and vegetables - Citrus fruit – Grading requirements

BOS ISO 874: 1980  ed. 1
Fruits and vegetables – Sampling

67.080.10  Fruits and derived products

No current standards

67.080.20  Vegetables and derived products

BOS 4: 2012  2nd ed.
Tomato – Grading requirements  ed. 2

Onions – Grading requirements  ed. 2

BOS 58: 2011  2nd ed.
Headed cabbage – Grading requirements  ed. 2

BOS 59: 2011
Potatoes – Grading requirements  ed. 2

BOS 272: 2013
Sweet pepper - Specification  ed. 1

BOS 430: 2012
Carrot – Grading requirements  ed. 1

BOS 450: 2011
Peanut butter – Specification  ed. 1

BOS 471: 2012
Butternut – grading requirements  ed. 1

BOS 531: 2012
Beetroot – grading requirements  ed. 1

BOS 590: 2013
Head lettuce - Specification  ed. 1

BOS 622: 2014
Broccoli – Grading Requirements  ed. 1

BOS 623: 2014
Cauliflower – Grading Requirements  ed. 1
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<td>Bottled tomato sauce – specification</td>
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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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<td>BOS ISO 5541-2:1986</td>
<td>Milk and milk products – Enumeration of coliforms – Part 2: Most probable number technique at 30°C.</td>
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<td>Milk and milk products – Ultra high temperature treated cow’s milk - Specification</td>
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BOS 385: 2012 ed. 1 The manufacture, production, processing and treatment of canned meat products – Specification |
| 67.160    | Beverages                                 | No current standards                                                                            |
| 67.160.10 | Alcoholic beverages                       | No current standards                                                                            |
| 67.160.20 | Non-alcoholic beverages                   | BOS 106: 2004 ed. 1 Fruit juices and fruit drinks                                             
BOS 473: 2011 ed. 1 Addictives in fruit and vegetable drinks and non-alcoholic drinks – Specification |
BOS 472: 2012 ed. 1 Beekeeping and bee products – Code of practice                              
BOS 671:2014 ed. 1 Beeswax – Specification                                                       |
| 67.180.20 | Starch and derived products               | BOS ISO 11212 – 2: 1997 ed. 1 Starch and derived products – Heavy metals content – Part 2: Determination of mercury content by atomic absorption spectrometry |
| 67.200    | Edible oils and fats. Oilseeds            | No current standards                                                                            |
BOS ISO 8294: 1994
Animal and vegetable fats and oils – Determination of copper, iron and nickel content – Graphite furnace atomic absorption method.

67.250 Materials and articles in contact with foodstuffs

BOS 337: 2012
Plastics material for food contact use – Specification

71 Chemical Technology

71.060.50 Salts

BOS 681: 2015
Food grade salt – Specification

71.100.01 Products of the chemical industry in general

BOS 66: 2003
Classification, labelling and packaging of chemicals – Part 1: General requirements

BOS ISO 11014-1:1994
Safety data sheet for chemical products – Part 1: Content and order of sections.

71.100.35 Chemicals for industrial and domestic disinfection purposes

BOS 111: 2005
Hand dishwashing and light duty detergent (liquid) – Specification

BOS 112: 2004
Detergent – disinfectants based on inorganic chlorine compounds – Specification

BOS 113: 2004
Detergent – disinfectants based on quaternary ammonium compounds – Specification

71.100.40 Surface active agents

BOS 147: 2009
Scouring powder: Synthetic detergent base – Specification

BOS 184: 2006
Solvent- emulsion degreasers – Specification

BOS 227: 2006
Gel detergent cleaner (non-abrasive) – Specification

BOS 228: 2006
Liquid furniture polish (non-wax emulsion type) – Specification

BOS 229: 2006
Polish stripper – Specification

BOS 318: 2009
High foam laundry detergent – Specification

BOS 374: 2010
Ammoniated liquid detergent cleaner – Specification

BOS 370: 2010
Detergent skin cleansers – Specification
71.100.50  Wood-protecting chemicals

BOS 173: 2006  ed. 1  TC CD 7
Preservative treated timber – Specification

71.100.70  Cosmetics, Toiletries

BOS 370: 2010  ed. 1  TC CD 5
Detergent skin cleansers – Specification

75  Petroleum and related technologies

75.100  Lubricants, industrial oils and related products

BOS 628: 2015  ed. 1  TC MED 10
High performance engine oil for petrol engines (for API service category SJ).

BOS 629: 2015  ed. 1  TC MED 10
High performance engine oil for petrol engines (for API service category SL).

75.140  Waxes, bituminous materials and other petroleum products

BOS 14: 2000  ed. 1  TC BCD 3
Penetration grade bitumen

BOS 15:2000  ed. 1  TC BCD 2
Semi-flexible vinyl tiles

BOS 17:2000  ed. 1  TC BCD 3
Cutback bitumen

BOS 18: 2000  ed. 1  TC BCD 3
Cationic bitumen road emulsions

BOS 33:2000  ed. 1  TC BCD 3
Anionic bitumen road emulsions

BOS 34: 2009  ed. 1  TC BCD 2
Flexible vinyl flooring – Specification

BOS 144: 2011  ed.2  TC CD 5
Wax emulsion polish for floors and furniture – Specification

BOS 145: 2005  ed. 1  TC
Wax polish solvent-based for floors and furniture – Specification

BOS 146: 2005  ed. 1  TC
Scouring compounds – Soap base (metric units) – Specification

BOS 671:2014  ed. 1  TC AFD 8
Beeswax – Specification

75.160  Fuels
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- **BOS 576:2014**  
  Automotive diesel fuel – Specification  
  *ed. 1*  
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- **BOS 577:2014**  
  Unleaded petrol – Specification  
  *ed. 1*  
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- **BOS 578:2014**  
  Kerosene for domestic heating and illuminating – Specification  
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### 75.180 Equipment for petroleum & natural gas industries

No current standards

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### 75.200 Petroleum products & natural gas handling equipment

- **BOS 577:2014**  
  Unleaded petrol – Specification  
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### 77.040 Testing of metals

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- **BOS ISO 6506-1:2002**  
  *ed. 1*  
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- **BOS ISO 6506-2:2002**  
  Metallic materials – Brinell hardness test – Part 2: Verification and calibration of testing machines.  
  *ed. 2*  
  TC MED 5

- **BOS ISO 6892: 1998**  
  Metallic materials – Tensile testing at ambient temperature.  
  *ed. 2*

### 77.080.10 Irons

- **BOS 265: 2007**  
  Cast iron surface boxes and manhole and inspection covers and frames – Specification  
  *ed. 1*  
  TC MED 1

- **BOS IEC 60335-2-10: 2008**  
  Household and similar electrical appliances – Safety – Part 2-10: Particular requirement for floor treatment machines and wet scrubbing machines.  
  *ed. 1*  
  TC EED 5

- **BOS IEC 60335-2-43: 2008**  
  Household and similar electrical appliances – Safety – Part 2-43: Particular requirement for clothes dryers and towel rails  
  *ed. 1*  
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- **BOS IEC 60335-2-52: 2008**  
  Household and similar electrical appliances – Safety – Part 2-52: Particular requirement for oral hygiene appliances  
  *ed. 1*  
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- **BOS IEC 60335-2-55: 2008**  
  Household and similar electrical appliances – Safety – Part 2-55: Particular requirement for surface cleaning appliances for electrical appliances for use with aquariums and garden ponds  
  *ed. 1*  
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- **BOS IEC 60335-2-65: 2008**  
  Household and similar electrical appliances – Safety – Part 2-65: Particular requirement for air cleaning appliances  
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### 79.020 Wood technology processes

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### 79.040 Wood, sawlogs and sawn timber

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### 81.040.20 Glass in building

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<td>BOS ISO 4591:1992 ed. 2</td>
<td>Plastics -- Film and sheeting -- Determination of average thickness of a sample, and average thickness and yield of a roll, by gravimetric techniques (gravimetric thickness)</td>
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Paper – Determination of bursting strength

**85.080 Paper products**

- **BOS 191: 2006**
  Scholastic stationery – Specification
  
- **BOS 192: 2006**
  Chalk writing boards for schools – Specification

**85.080.20 Tissue paper**

- **BOS 243: 2007**
  Toilet paper- Specification

### 87.040 Paints and varnishes

- **BOS 7: 1999**
  Emulsion paints

- **BOS 10: 2000**
  Paints and varnishes – Varnish for interior use

- **BOS 11: 2000**
  Paints and varnishes – Undercoats for paints

- **BOS 12-1: 2000**

- **BOS 20: 2002**
  Paints and varnishes – Primers for wood for interior and exterior use

- **BOS 21: 2000**
  Paints and varnishes – Decorative high gloss enamel paint for interior and exterior use

- **BOS 22: 2002**
  Paints and varnishes – Bituminous aluminium paint

- **BOS 23: 2002**
  Paints and varnishes – Finishing paint aluminium type

- **BOS 45: 2001**
  Paints and varnishes

- **BOS 47: 2001**
  Paint and varnishes – Roof paints

- **BOS 489: 2011**
  Textured wall coatings, emulsion based, for interior and exterior use – Specifications

### 91.040.01 Buildings in general

No current standards

### 91.060 Elements of buildings
## Walls, partitions

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## Roofs

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<td>High temperature wood preserving creosote - Specification</td>
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<td>The manufacture and erection of lightweight metal trusses - Code of Practice</td>
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## Ceilings. Floors. Stairs

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<td>Suspended ceilings – Part 2: Performance of components and assemblies</td>
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## Doors and windows

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### 91.080.10 Metal structures

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### 91.080.20 Timber structures

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### 91.080.30 Masonry

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### 91.080.40 Concrete structures

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### 91.090 External structures (including fences, gates, arches, sheds, garages.

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### 91.100 Construction materials

#### 91.100.10 Cement. Gypsum. Lime. Mortar

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<td>Natural stone – Sandstone building blocks – Specification</td>
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### 91.100.25 Ceramic and terracotta building products

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<td>Ceramic tiles – Definitions, classification, characteristics and marking</td>
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<td>Fibre concrete roofing tiles</td>
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<td>Wood-wool panels (cement-bonded) – Specification</td>
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<td>The installation of resilient thermoplastic and similar flexible floor covering materials – Code of practice</td>
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<td>Installation of concrete paving blocks – Code of practice</td>
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Precast concrete kerbs, edgings and channels - Specification ed.2 TC BCD 4

BOS 104: 2012 2nd ed.
Prefabricated concrete components for fences - Specification ed.2 BCD 4

BOS 105: 2004
Concrete flooring tiles – Specification ed.1 TC BCD 4

BOS 135: 2005
Ready-mixed concrete ed. 1 TC BCD 4

BOS 150: 2005
Bending dimensions and scheduling of steel reinforcement for concrete ed. 1 TC BCD 6

BOS 165: 2006
Aggregates from natural resources – Aggregates for concrete ed. 1 TC BCD 4

BOS 166: 2006
Precast concrete paving slabs – Specification ed.1 TC BCD 4

BOS 214-1: 2006
The structural use of concrete – Part 1: Design – Code of practice ed.1 TC BCD 4

BOS 214-2: 2006
The structural use of concrete Part 2: Materials and execution of work- Code of practice ed.1 TC BCD 4

BOS 248: 2007
The use of reinforcement cover devices for reinforced concrete - Code of practice ed. 1 TC BCD 6

BOS 263: 2007
Precast concrete products- Street and garden furniture – Specification ed.1 TC BCD 4

BOS ISO 1920-1: 2004
Testing of concrete - Part 1: Sampling of fresh concrete ed. 1 TC BCD 4

BOS ISO 1920-2: 2005
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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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