

**DEPARTMENT OF TRADE AND INDUSTRY
DEPARTEMENT VAN HANDEL EN NYWERHEID**

No. 1154

24 November 2006

**STANDARDS ACT, 1993
STANDARDS MATTERS**

In terms of the Standards Act, 1993 (Act No. 29 of 1993), the Council of the South African Bureau of Standards has acted in regard to standards in the manner set out in the Schedules to this notice.

All South African standards that were previously published by the South African Bureau of Standards with the prefix "SABS" have been redesignated as South African national standards and are now published by Standards South Africa (a division of SABS) with the prefix 'SANS'.

A list of all existing South African national standards was published by Government Notice No. 1373 of 8 November 2002.

In the list of SANS standards below, the equivalent SABS numbers, where applicable, are given below the new SANS numbers for the sake of convenience. Standards that were published with the "SABS" prefix are listed as such.

SCHEDULE 1: ISSUE OF NEW STANDARDS

The standards mentioned have been issued in terms of section 16(3) of the Act.

Standard No. and year	Title, scope and purport
SANS 207:2006	<i>The design and construction of reinforced soils and fills.</i> Gives recommendations for the application of reinforcement techniques to soils and other fills. Also gives design guidelines for the reinforcement of soils.
SANS 348:2006	<i>Safety surgical scalpels, sterile packed for single-use.</i> Specifies the requirements for a sterile, single-use, safety surgical scalpel with a retractable blade. It does not cover detachable surgical blades.
SANS 499:2006/ ISO 487:1998	<i>Steel roller chains, types S and C, attachments and sprockets.</i> Specifies the characteristics of a range of steel roller chains, dimensionally derived from the malleable iron type and suitable for the conditions of operation and maintenance prevailing in such fields as agriculture, building, quarrying and related industry, mechanical handling, etc., and of associated chain sprockets.
SANS 606:2006/ ISO 606:2004	<i>Short-pitch transmission precision roller and bush chains, attachments and associated chain sprockets.</i> Specifies the characteristics of short-pitch precision roller and bush chains with associated sprockets suitable for mechanical transmission of power and allied applications. It covers dimensions, tolerances, length measurement, preloading, minimum tensile strengths and minimum dynamic strength.
SANS 1275:2006/ ISO 1275:1995	<i>Double-pitch precision roller chains and sprockets for transmission and conveyors.</i> Specifies requirements for double-pitch precision roller chains suitable for the mechanical transmission of power and for conveyors, together with those for their associated sprockets. Covers dimensions, tolerances, length measurement, proof testing and minimum tensile strengths. The chains are intended for use under less onerous conditions with respect to speed and power transmitted than are the base chains from which they are derived.
SANS 1977:2006/ ISO 1977:2000	<i>Conveyor chains, attachments and sprockets.</i> Specifies the characteristics of bush, plain and flanged roller chains of both solid and hollow bearing pin types designed for general conveying and mechanical handling duties, together with associated chain sprockets and attachments. The chain dimensions specified in this standard will ensure interchangeability of complete chains and individual links for repair purposes.
SANS 3512:2006/ ISO 3512:1992	<i>Heavy-duty cranked-link transmission chains.</i> Specifies dimensions (in mm), tolerances, measuring forces and minimum tensile strengths, together with the tooth gap forms and rim profiles of the associated chain wheels.
SANS 4347:2006/ ISO 4347:2004	<i>Leaf-chains, clevises and sheaves – Dimensions, measuring forces and tensile strengths.</i> Specifies the characteristics of chains used for general lifting purposes, together with the rim profiles of sheaves and the chain attachment ends of clevises. It gives dimensions, limits for interchangeability, length measurement, preloading and minimum tensile strengths.
SANS 8528-8:2006/ ISO 8528-8:1995	<i>Reciprocating internal combustion engine driven alternating current generating sets – Part 8: Requirements and tests for low-power generating sets.</i> Specifies requirements, minimum performances and type tests for low-power generating sets driven by reciprocating internal combustion engines for land and marine use (domestic, recreational and industrial application), excluding generating sets used on aircraft.
SANS 8528-9:2006/ ISO 8528-9:1995	<i>Reciprocating internal combustion engine driven alternating current generating sets – Part 9: Measurement and evaluation of mechanical vibrations.</i> Describes a procedure for measuring and evaluating the external mechanical vibration behaviour of generating sets at the measuring points stated in this part of SANS 8528.
SANS 8528-10:2006/ ISO 8528-10:1998	<i>Reciprocating internal combustion engine driven alternating current generating sets – Part 10: Measurement of airborne noise by the enveloping surface method.</i> Specifies measurement methods for the determination of airborne noise emitted by reciprocating internal combustion engine driven generating sets in such a way that the total of relevant noise emissions, for example, exhaust and cooling system noise, together with all other sources of engine noise, are evaluated on a similar basis to yield comparable results.
SANS 8528-12:2006/ ISO 8528-12:1997	<i>Reciprocating internal combustion engine driven alternating current generating sets – Part 12: Emergency power supply to safety services.</i> Applies to generating sets driven by reciprocating internal-combustion (RIC) engines for emergency power supply to safety services. Applies, for example, to safety equipment in hospitals, high-rise buildings, public gathering places, etc. Establishes the special requirements for the performance, design and maintenance of power generators used in the applications referred to above and taking into account the provisions of SANS 8528-1 to SANS 8528-6 and SANS 8528-10.

Standard No. and year	Title, scope and purport
SANS 14971:2006/ ISO 14971:2000	<i>Medical devices – Application of risk management to medical devices.</i> Specifies a procedure by which a manufacturer can identify the hazards associated with medical devices and their accessories, including <i>in vitro</i> diagnostic medical devices, estimate and evaluate the risks, control these risks and monitor the effectiveness of the control. Does not specify acceptable risk levels and does not apply to clinical judgements relating to the use of the device.
SANS IS1 17-1:2006/ ISO 15117-1:2004	<i>Coal flow properties – Part 1: Bin flow.</i> Sets out methods for the measurement of the flow properties of coal, primarily for the design of bins and chutes. Also provides some guidance on the presentation of these data for analysis and design.
SANS 15223:2006/ ISO 15223:2000	<i>Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied.</i> Identifies symbols conventionally used to convey information essential for safe and effective use of medical devices. It is primarily intended for use by manufacturers to overcome space limitations on small labels and to overcome language barriers for products marketed in different countries. It is also for use by health care regulatory authorities, testing organizations, certification bodies and other organizations responsible for implementing regulations affecting medical devices and having responsibility for postmarket surveillance.
SANS 16038:2006/ ISO 16038:2005	<i>Rubber condoms – Guidance on the use of ISO 4074 in the quality management of natural rubber latex condoms.</i> Provides guidance on using ISO 4074 (published in South Africa as an identical adoption under the designation SANS 4074) and addresses quality issues to be considered during the development, manufacture, quality verification and procurement of condoms. It encompasses the aspects of quality management systems in design, manufacture and delivery of condoms with emphasis on performance, safety and reliability of condoms.
SANS 16269-6:2006/ ISO 16269-6:2005	<i>Statistical interpretation of data – Part 6: Determination of statistical tolerance intervals.</i> Describes procedures for establishing tolerance intervals that include at least a specified proportion of the population with a specified confidence level. Both one-sided and two-sided statistical tolerance intervals are provided, a one-sided interval having either an upper or a lower limit while a two-sided interval has both upper and lower limits. Two methods are provided, a parametric method for the case where the characteristic being studied has a normal distribution and a distribution-free method for the case where nothing is known about the distribution except that it is continuous.
SANS 17246:2006/ ISO 17246:2005	<i>Coal – Proximate analysis.</i> Establishes a practice for the proximate analysis of coal and is intended for general utilization by the coal industry to provide a basis for comparison of coals.
SANS 17247:2006/ ISO 17247:2005	<i>Coal – Ultimate analysis.</i> Establishes a practice for the ultimate analysis of coal and is intended for general utilization by the coal industry to provide a basis for comparison of coals.
SANS 21183-1:2006/ ISO 21183-1:2005	<i>Light conveyor belts – Part 1: Principal characteristics and applications.</i> Describes the principal characteristics and applications of light conveyor belts.
SANS 21183-2:2006/ ISO 21183-2:2005	<i>Light conveyor belts – Part 2: List of equivalent terms.</i> Establishes a list of equivalent terms relating to light conveyor belts.
SANS 22004:2006 ISO/TS 22004:2005	<i>Food safety management systems – Guidance on the application of ISO 22000:2005.</i> Provides generic guidance that can be applied in the use of ISO 22000 (published in South Africa as an identical adoption under the designation SANS 22000).
SANS 23529:2006/ ISO 23529:2004	<i>Rubber – General procedures for preparing and conditioning test pieces for physical test methods.</i> Specifies general procedures for the preparation, measurement, marking, storage and conditioning of rubber test pieces for use in physical tests, and the preferred conditions to be used during the tests. Special conditions applicable to a particular test or material or simulating a particular climatic environment are not included, nor are special requirements for testing whole products.
SANS 54593-2:2006/ EN 14593-2:2005	<i>Respiratory protective devices – Compressed air line breathing apparatus with demand valve – Part 2: Apparatus with a half mask at positive pressure – Requirements, testing, marking.</i> Specifies minimum requirements for compressed air line breathing apparatus with demand valve for use with a half mask at positive pressure, as a respiratory protective device. Escape and diving apparatus, apparatus for fire fighting and apparatus used in abrasive blasting operations without additional features are not covered.
SANS 54594:2006/ EN 14594:2005	<i>Respiratory protective devices – Continuous flow compressed air line breathing apparatus – Requirements, testing, marking.</i> Specifies minimum requirements for continuous flow compressed air line breathing apparatus for use with a full face mask, half mask or incorporating a hood, helmet or suit and apparatus used in abrasive blasting operations, as a respiratory protective device. Escape and diving apparatus are not covered.
SANS 60076-7:2006/ IEC 60076-7:2005	<i>Power transformers – Part 7: Loading guide for oil-immersed power transformers.</i> Describes the effect of operation under various ambient temperatures and load conditions on the life of oil-immersed transformers.
SANS 60079-27:2006/ IEC 60079-27:2005	<i>Electrical apparatus for explosive gas atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO) and Fieldbus non-incendive concept (FNICO).</i> Contains the details of apparatus, systems and installation practice for use with the Fieldbus Intrinsically Safe Concept (FISCO) and the Fieldbus Non-Incendive Concept (FNICO).
SANS 60832:2006/ IEC 60832:1988	<i>Insulating poles (insulating sticks) and universal tool attachments (fittings) for live working.</i> Covers insulating poles (insulating sticks) and tool attachments (fittings) for live working.
SANS 60840:2006/ IEC 60840:2004	<i>Power cables with extruded insulation and their accessories for rated voltages above 30 kV (U_m = 36 kV) up to 150 kV (U_m = 170 kV) – Test methods and requirements.</i> Covers test methods and requirements for power cable systems for fixed installations, for rated voltages above 30 kV (U _m = 36 kV) up to and including 150 kV (U _m = 170 kV). Also covers cables and accessories for usual conditions of installation and operation.
SANS 62055-21:2006/ IEC TR 62055-21:2005	<i>Electricity metering – Payment systems – Part 21: Framework for standardization.</i> Sets out a framework for the integration of standards into a system specification for electricity payment metering systems. Addresses the payment metering system application process, generic processes, generic functions, data elements, system entities and interfaces that exist in present payment metering systems. The approach taken in the framework is sufficiently generic to payment metering systems so that it should be equally applicable to future systems.

Standard No. and year	Title, scope and purport
SANS 62193:2006/ IEC 62193:2003	<i>Live working – Telescopic sticks and telescopic measuring sticks.</i> Covers telescopic sticks and telescopic measuring sticks to be used for live working on a.c. or d.c. electrical installations at 1 000 V and above for a.c. and 1 500 V and above for d.c.
Standard No. and year	Title, scope and purport
SANS 52:1981/ ISO 622:1981	<i>Solid mineral fuels – Determination of phosphorus content – Reduced molybdophosphate photometric method. National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes
SANS 105-A02:1993/ ISO 105-A02:1993	<i>Textiles – Tests for colourfastness – Part A02: Greyscale for assessing change in colour. ISO technical corrigendum No. 2.</i> Changed to make provision in 2.5 for the samples to be masked with a material that is identical in colour to that of the sleeve that is used to mask the test strip being used.
SANS 105-A03:1993 ISO 105-A03:1993	<i>Textiles – Tests for colourfastness – Part A03: Greyscale for assessing staining. ISO technical corrigendum No. 2.</i> Changed to correct the last sentence of the first paragraph of 2.5 and to make provision for the samples to be masked with a material that is identical in colour to that of the sleeve that is used to mask the test strip being used.
SANS 105-X12:2006/ ISO 105-X12:2002 (SABS ISO 105-X12:2001)	<i>Textiles – Tests for colourfastness – Part X12: Colourfastness to rubbing.</i> Specifies a method for determining the resistance of the colour of textiles of all kinds, including textile floor coverings and other pile fabrics, to rubbing off and staining other materials. It is applicable to textiles made from all fibres in the form of yarn or fabric, including textile floor coverings, whether dyed or printed.
SANS 125:1997/ ISO 925:1997	<i>Solid mineral fuels – Determination of carbonate carbon content – Gravimetric method. National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes.
SANS 126:1989/ ISO 924:1989	<i>Coal preparation plant – Principles and conventions for flowsheets. National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes
SANS 131:1997/ ISO 1171:1997	<i>Solid mineral fuels – Determination of ash content. National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes
SANS 175:2006/ ISO 1514:2004 (SABS ISO 1514:1993)	<i>Paints and varnishes – Standard panels for testing.</i> Specifies several types of standard panel and describes procedures for their preparation prior to painting. These standard panels are for use in general methods of test for paints, varnishes and related products.
SANS 176:1973/ ISO 1517:1973	<i>Paints and varnishes – Surface-drying test – Ballotini method. National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes.
SANS 178:2006/ ISO 1524:2000 (SABS ISO 1524:1983)	<i>Paints, varnishes and printing inks – Determination of fineness of grind.</i> Specifies a method for determining the fineness of grind of paints, inks and related products by use of a suitable gauge, graduated in micrometres.
SANS 214-1:2006/ CISPR 14-1:2005 (SANS 214-1:2003)	<i>Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission.</i> Applies to the conduction and the radiation of radio-frequency disturbances from appliances whose main functions are performed by motors and switching or regulating devices, unless the r.f. energy is intentionally generated or intended for illumination.
SANS 215:2006/ CISPR 15:2005 (SANS 215:2003)	<i>Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.</i> Applies to the emission (radiated and conducted) of radio frequency disturbances from all lighting equipment with a primary function of generating and/or distributing light intended for illumination purposes, and intended either for connection to the low voltage electricity supply or for battery operation.
SANS 216-1-4:2006/ CISPR 16-1-4:2004 (Ed. 1.1)	<i>Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-4: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Radiated disturbances. Consolidated edition incorporating CISPR amendment No. 2.</i> Amended to accommodate set-up tables, and to add a Bibliography.
SANS 251:2006 (SABS 251:1993)	<i>Long-link and extra-long-link medium tolerance steel chains for general purposes.</i> Specifies the requirements for electrically welded long-link and extra-long-link medium tolerance steel chains ranging in size from 4 mm to 50 mm (inclusive), of grades 3, 4, 5, 6, 8 and 9, and intended for use as hand chains and for general purpose applications. The chains are not recommended for lifting purposes.
SANS 340:2006/ ISO 340:2004 (SANS 340:2003)	<i>Conveyor belts – Laboratory scale flammability characteristics – Requirements and test method.</i> Specifies a method for assessing, on a small scale, the reaction of a conveyor belt to an ignition flame source. It is applicable to conveyor belts having a textile carcass as well as steel cord conveyor belts.
SANS 417:2006 (Ed. 5.4)	<i>Stainless steelware for medical and catering services in institutions. Consolidated edition incorporating amendment No. 4.</i> Amended to update the definition of “acceptable” to delete the use of a reference sample available at the SABS, to replace the footnotes on the reduction of the indentation of spot welds, general designs, selection of plate thickness, and sampling, with notes, and to update a referenced standard.

Standard No. and year	Title, scope and purport
SANS 514:2006 (Ed. 3.2)	<i>Immersion heaters for electric storage water heaters. Consolidated edition incorporating amendment No. 2.</i> Amended to update the definition of "acceptable" to update a normative reference, and to remove reference to the SABS as the body for inspection and testing.
SANS 1294:2006 (SABS 1294:1981)	<i>Precast concrete manhole sections and components.</i> Covers precast concrete sections and components of various types intended for use in the construction of manholes (including inspection chambers) in stormwater, drainage and sewage pipelines.
SANS 1339:2006 (Ed. 3.2)	<i>Electric cables – Cross-linked polyethylene (XLPE) insulated cables for rated voltages 3,8/6,6 kV to 19/33 kV. Consolidated edition incorporating amendment No. 2.</i> Amended to include a halogen-free material type (HFBI) for bedding under armour of type A cables, to include a corrugated seamless aluminium (CSA) sheath for cables installed by direct burial in aggressive environments, to include copper wire screening on single-core cables, to delete SANS 1411-7 as a referenced standard for the physical properties of bedding and to delete a reference to the certification mark scheme.
SANS 1366:2006 (Ed. 2.1)	<i>Steel cord reinforced conveyor belting. Consolidated edition incorporating amendment No. 1.</i> Amended to update the referenced standards, to change the requirements to include "Type C", to change the requirements for breaking strength in cords, to correct the individual values of the cord spacing, to correct the subclause on compliance, and to add reference to the number of cord spacings that differ from the mean value.
SANS 1471:1996/ EN 1471:1996	<i>Textile floor coverings – Assessment of changes in appearance. EN amendment No. 1.</i> Amended to update the overall change assessment procedure. <i>National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes.
SANS 1476:2006 (Ed. 1.1)	<i>Fabricated flanged steel pipework. Consolidated edition incorporating amendment No. 1.</i> Amended to change the designation from SABS standards to SANS standards, and to update referenced standards.
SANS 1529-3:2006 (Ed. 1.1)	<i>Water meters for cold potable water – Part 3: Physical dimensions. Consolidated edition incorporating amendment No. 1.</i> Amended to include requirements for dimensions of concentric meters and to update referenced standards.
SANS 1613:2006 (Ed. 1.5)	<i>Warp-knitted terry towelling fabric and articles. Consolidated edition incorporating amendment No. 4.</i> Amended to update referenced standards; to expand the fabric requirements and to renumber them where necessary (4.1.1 and 4.7); to change the fibre composition of the pillar stitches of types DK 270, DK 340 and DK 400 to allow for the use of both nylon and polyester, and to adjust the overall fibre composition of these types accordingly; to correct the reference to the test for the determination of the removable non-fibrous material content; and to correct a reference in the annex on notes to purchasers.
SANS 1804-2:2006 (Ed. 1.3)	<i>Induction motors – Part 2: Low-voltage three-phase standard motors. Consolidated edition incorporating amendment No. 3.</i> Amended to add requirements for motor performance and to update referenced Standards.
SANS 1840:2006 (Ed. 1.3)	<i>Manufacture of measuring container bottles. Consolidated edition incorporating amendment No. 3.</i> Amended to delete clause 5.3.2 on maximum permissible errors.
SANS 2808:1997/ ISO 2808:1997	<i>Paints and varnishes – Determination of film thickness. National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes.
SANS 3189-1:1985/ ISO 3189-1:1985	<i>Sockets for wire ropes for general purposes – Part 1: General characteristics and conditions of acceptance. ISO corrigendum No. 1.</i> Amended to replace table 3 (on reference test force) and the note to table 3. <i>National amendment No. 2.</i> Amended to change the designation from SABS to SANS, with no technical changes.
SANS 3270:1984/ ISO 3270:1984	<i>Paints and varnishes and their raw materials – Temperatures and humidities for conditioning and testing. National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes.
SANS 3668:1998/ ISO 3668:1998	<i>Paints and varnishes – Visual comparison of the colour of paints. National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes.
SANS 5030:2006 (Ed. 3.1)	<i>Paints and varnishes – Panels for testing: Fibre-cement panels. Consolidated edition incorporating amendment No. 1.</i> Amended to change the designation from SABS to SANS with no technical changes.
SANS 5667-3:2006/ ISO 5667-3:2003 (SABS ISO 5667-3:1994)	<i>Water quality – Sampling – Part 3: Guidance on the preservation and handling of water samples.</i> Gives general guidelines on the precautions to be taken to preserve and transport all water samples including those for biological analyses but not those intended for microbiological analysis. 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.
SANS 5667-6:2006/ ISO 5667-6:2005 (SABS ISO 5667-6:1990)	<i>Water quality – Sampling – Part 6: Guidance on sampling of rivers and streams.</i> 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 limited microbiological assessment.
SANS 5854:2006 (SABS SM 854:1976)	<i>pH Value of fines in aggregates for base-courses.</i> Describes a method to determine the pH value of fines in aggregates for base-courses.
SANS 6150:2006 (SABS SM 1150:1989)	<i>Verification of compression testing machines for concrete: Calibration of load scale.</i> Describes a method to verify the accuracy of compression testing machines for concrete.
SANS 6154:2006 (SABS SM 1154:1989)	<i>Glass content of granulated metallurgical slag (transmitted-light microscopy method)</i> Describes a method to determine the proportions of pure glass, glassy material, crystalline and opaque particles in granulated metallurgical slag
SANS 6156:2006 (SABS SM 1156:1989)	<i>Water requirement of portland cement extenders.</i> Describes the method to determine the water requirement of portland cement extenders

Standard No. and year	Title, scope and purport
SANS 6265:2006 (Ed. 1.2)	<i>Water – Calcium and magnesium content – Atomic absorption spectrometric method. Consolidated edition incorporating amendment No. 2.</i> Amended to change the designation from SABS to SANS, with no technical changes.
SANS 7724-1:1984/ ISO 7724-1:1984	<i>Paints and varnishes – Colorimetry – Part 1: Principles. National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes.
SANS 8199:2006/ ISO 8199:2005 (SANS 8199:2004)	<i>Water quality – General guidance on the enumeration of micro-organisms by culture.</i> Presents guidance for carrying out manipulations which are common to each technique for the microbiological examination of water, particularly the preparation of samples, culture media and apparatus. It also describes the various enumeration techniques available and the criteria for the choice of a particular technique.
SANS 10005:2006 (Ed. 7.1)	<i>The preservative treatment of timber. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards, and to transfer one of the normative references to the bibliography; to incorporate a new type of timber preservative (azole-permethrin); to change the wording in the subclause on the preparation of timber species for treatment, to clarify the meaning; to correct the numbering of the columns in table 2; to correct a requirement for timber treated with deltamethrin (table 3); to delete a reference in the warning against prolonged exposure to toxic gases released as a result of the combustion of preservative-treated timber; to add an exclusion to the types of Angiospermae to be treated, and to rearrange the subclause to facilitate readability; to change the designation of the variable for standard deviation in the test for the determination of the basic sapwood content of timber samples (C.3.3.3); to change references to legislation and a government department; to change the status of the annex containing a sapwood and density calculation for the determination of WCuAz timber-preservative retentions from normative to informative (annex C); to change the status of the annex containing a checklist for conformity assessment of treatment plant area from informative to normative (annex E); and to correct a reference to the accessibility of the operator's office or control room to authorized personnel (table E.1).
SANS 10006:2006 (Ed. 3.1)	<i>Colour marking and identification of medical gas cylinders and anaesthetic apparatus. Consolidated edition incorporating amendment No. 1.</i> Amended to update a referenced standard.
SANS 10013-1:2006 (SABS 013-1:1988)	<i>The determination of performance (at net power) of internal combustion engines – Part 1: Road vehicle internal combustion engines at sea level.</i> Covers a method for testing engines designed for road vehicles. It is applicable to the evaluation of their performances with a view, in particular, to presenting curves of power, torque and specific fuel consumption at full load as a function of engine speed.
SANS 10013-2:2006 (SABS 013-2:1988)	<i>The determination of performance (at net power) of internal combustion engines – Part 2: Compression ignition engines at altitude.</i> Covers a method for determining the net power of compression ignition engines at an altitude of 1 400 m above sea level.
SANS 10013-3:2006 (SABS 013-3:1988)	<i>The determination of performance (at net power) of internal combustion engines – Part 3: Agricultural vehicle internal combustion engines at sea level.</i> Covers a bench method for testing certain categories of engines which are intended for use in agricultural tractors and machines and which may be fitted with a supercharging device using a mechanical supercharger or turbocharger. Determines specific fuel consumption and measures the smoke emission.
SANS 10021:2006 (Ed. 3.2)	<i>The waterproofing of buildings (including damp-proofing and vapour barrier installation). Consolidated edition incorporating amendment No. 2.</i> Amended to change the scope, to update referenced standards, to add definitions for acceptable and concrete, to modify the definitions for drying shrinkage, shrinkage during hardening, and solid wall, and to renumber the definitions accordingly, to change the requirements for waterproofing and damp-proofing, basement and semi-basement waterproofing, structural floors and walls, mastic asphalt to basement floors, durability of concrete, formwork, and floor slab construction, to delete the table on minimum recommended ground floor slab constructions (table 1), to change the requirements for polyolefin damp-proof membranes for surface beds, to modify the subclauses on mastic asphalt finishes (6.1.7) and bitumen emulsion-cement finishes (6.1.8), to change the requirements for ceiling compounds for joints, to correct a reference to a figure, to change a common cement type from portland cement to CEM 1, to change the strength type in mix proportions, to change the requirements for water repellents for masonry protection, rain resistance of walls, and compatible paint coatings, to delete the figure of an example of suspended timber floor construction (figure 17), to delete the annex on thatched roofs (annex A), and to correct a reference in the bibliography.
SANS 10222-3:2006 (SABS 0222-3:2000)	<i>Electrical security installations – Part 3: Electric security fences (non-lethal).</i> Gives the basic requirements for the planning, erection, installation and commissioning of electric fences. Is in line with international electric fence standards, but gives additional requirements for situations that are unique to South African conditions.
SANS 10284:2006/ ISO 284:2003 (SANS 10284:2003)	<i>Conveyor belts – Electrical conductivity – Specification and test method.</i> Specifies the maximum electrical resistance of a conveyor belt and the corresponding test method.
SANS 10965:1998/ ISO 10965:1998	<i>Textile floor coverings – Determination of electrical resistance. National amendment No. 1.</i> Amended to change the designation from SABS to SANS, with no technical changes.
SANS 14971:2006/ ISO 14971:2000	<i>Medical devices – Application of risk management to medical devices. ISO amendment No. 1.</i> Amended to add Annex H (informative) on the Rationale for requirements, before the bibliography.
SANS 15223:2006/ ISO 15223:2000	<i>Medical devices – Symbols to be used with medical device labels, labeling and information to be supplied. ISO amendment No. 1.</i> Amended to add symbols 3.25, 3.26, 3.27, 3.28 and 3.29 to table 1. <i>ISO amendment No. 2.</i> Amended to add symbols 3.30 and 3.31 to table 1.

Standard No. and year	Title, scope and purport
SANS 50081-1:2004/ EN 81-1:1998	Safety rules for the construction and installation of lifts – Part 1: Electric lifts. EN amendment No. A1. Amended to change text in the introduction, to change nonnative references, to change definitions, to change and add text in the clauses on protection against electric faults; controls; priorities (14), and examinations – tests – register – maintenance (16), to change text in the annexes on list of the electric safety devices (annex A), and safety components – tests procedures for verification of conformity (annex F), to add a new annex P on description of possible measures, and to change text in the annex on clauses of this standard addressing essential requirements or other provisions of EU directives (annex ZA).
SANS 50196-1:2006/ EN 196-1:2005 (SABS EN 196-1:1994)	Methods of testing cement – Part 1: Determination of strength Describes the method for the determination of the compressive strength and, optionally, the flexural strength of cement mortar.
SANS 50196-2:2006/ EN 196-2:2005 (SABS EN 196-2:1994)	Methods of testing cement – Part 2: Chemical analysis of cement. Specifies the methods for the chemical analysis of cement. It also describes the reference methods and, in certain cases, an alternative method which can be considered to be equivalent. In the case of a dispute, however, only the reference methods are used.
SANS 50196-3:2006/ EN 196-3:2005 (SABS EN 196-3:1994)	Methods of testing cement – Part 3: Determination of setting times and soundness. Specifies the methods for determining standard consistence, setting times and soundness of cement. It applies to common cements and to other cements and materials. It may not apply to other cement types that have, for example, a very short initial setting time. It is used for assessing whether the setting time and soundness of a cement are in conformity with its specification.
SANS 50413-2:2006/ EN 413-2:2005 (SABS EN 413-2:1994)	Masonry cement – Part 2: Test methods. Describes reference and alternative test methods to be used when testing masonry cements to assess their conformity to SANS 50413-1. It gives the tests on fresh mortar for consistence, water retention and air content.
SANS 60064:2006/ IEC 60064:2005 (Ed. 1.3)	Tungsten filament lamps for domestic and similar general lighting purposes – Performance requirements. Consolidated edition incorporating amendment No. 3. Amended to replace lamp data sheets with new data sheets.
SANS 60079-15:2006/ IEC 60079-15:2005 (SABS IEC 60079-15:2001)	Electrical apparatus for explosive gas atmospheres – Part 15: Construction, test and marking of type of protection "n" electrical apparatus. Specifies requirements for the construction, testing and marking for Group II electrical apparatus with type of protection "n", intended for use in explosive gas atmospheres. It is applicable to non-sparking electrical apparatus and also to electrical apparatus with parts or circuits producing arcs or sparks or having hot surfaces which, if not protected in one of the ways specified in this standard, could be capable of igniting a surrounding explosive gas atmosphere.
SANS 60317-12:1990/ IEC 60317-12:1990	Specifications for particular types of winding wires – Part 12: Polyvinyl acetal enamelled round copper wire, class 120. IEC amendment No. 2. Amended to add information in the introduction on the three groups of insulated wires used for winding, clarifying information on the requirements for abrasion resistance, a reference to an intended pin hole test, and to include definitions on appearance. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 60335-2-5:2006/ IEC 60335-2-5:2005 (Ed. 2.1)	Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers. Consolidated edition incorporating amendment No. 1. Amended to add an example of a fault condition.
SANS 60335-2-6:2006/ IEC 60335-2-6:2005 (Ed. 3.1)	Household and similar electrical appliances – Safety – Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances. Consolidated edition incorporating amendment No. 1. Amended to add a nonnative reference, to change an instruction given in the instruction manual, and to add requirements for abnormal operation and construction.
SANS 60335-2-25:2006/ IEC 60335-2-25:2005 (Ed. 3.1)	Household and similar electrical appliances – Safety – Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens. Consolidated edition incorporating amendment No. 1. Amended to add a normative reference, to add instructions to be included in the instruction manual, requirements for heating, abnormal operation and construction, and recommended limit values for combination microwave ovens when operated under combination mode.
SANS 60335-2-75:2006/ IEC 60335-2-75:2005 (Ed. 2.1)	Household and similar electrical appliances – Safety – Part 2-75: Particular requirements for commercial dispensing appliances and vending machines. Consolidated edition incorporating amendment No. 1. Amended to include, in the introduction, a reference to electromagnetic phenomena which can affect the safe operation of the appliance, to include coffee grinders and hygienic aspects of appliances, to change the definition of "maintenance operation" and include a new definition of "potentially hazardous food", to add and change marking requirements, to clarify an addition for mechanical strength and to change and add requirements for construction.
SANS 60335-2-79:2006/ IEC 60335-2-79:2005 (Ed. 2.1)	Household and similar electrical appliances – Safety – Part 2-79: Particular requirements for high pressure cleaners and steam cleaners. Consolidated edition incorporating amendment No. 1. Amended to add information (in the foreword) to the list of differences that exist in indicated countries, to include cleaners that have a water container, to change requirements for protection classes and for degrees of protection against the harmful ingress of water in the case of the indoor use of appliances, to include definitions of and requirements for water-suction cleaning appliances and motorized cleaning heads, and to add referenced standards.
SANS 60335-2-95:2006/ IEC 60335-2-95:2005 (Ed. 2.1)	Household and similar electrical appliances – Safety – Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use. Consolidated edition incorporating amendment No. 1. Amended to refer to abnormal situations that can be expected in practice and electromagnetic phenomena that can affect the safe operation of appliances. to include automatic drives, to update normative references, to change general conditions for tests, classification, and marking and instructions for the use of drives, and to change requirements for heating, moisture resistance, abnormal operation, stability and mechanical hazards, construction and clearances, creepage distances and solid insulation.

Standard No. and year	Title, scope and purport
SANS 60335-2-97:2006/ IEC 60335-2-97:2005 (Ed. 2.1)	<i>Household and similar electrical appliances – Safety – Part 2-97: Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment. Consolidated edition incorporating amendment No. 1.</i> Amended to refer to abnormal situations that can be expected in practice and electromagnetic phenomena that can affect the safe operation of appliances, to include shutters that cover doors and windows and to change requirements for marking and construction.
SANS 60502-4:2006/ IEC 60502-4:2005 (SABS IEC 60502:1997)	<i>Power cables with extruded insulation and their accessories for rated voltages from 1 kV ($U_m = 1,2 \text{ kV}$) up to 30 kV ($U_m = 36 \text{ kV}$) – Part 4: Test requirements on accessories for cables with rated voltages from 6 kV ($U_m = 7,2 \text{ kV}$) up to 30 kV ($U_m = 36 \text{ kV}$).</i> Specifies the test requirements for type testing of accessories for power cables with rated voltages from 3,6/6 (7,2) kV up to 18/30 (36) kV, complying with IEC 60502-2.
SANS 60832:2006/ IEC 60832:1988	<i>Insulating poles (insulating sticks) and universal tool attachments (fittings) for live working. IEC corrigendum No. 1.</i> Changed to replace the reference to IEC Publication 410 with a reference to IEC 61318.
SANS 60929:2006/ IEC 60929:2006 (SANS 60929:2004)	<i>AC-supplied electronic ballasts for tubular fluorescent lamps – Performance requirements.</i> Applies to requirements for ballasts for discharge lamps for use on a.c. supplies up to 1 000 V at 50 Hz or 60 Hz with operating frequencies deviating from the supply frequency, associated with tubular fluorescent lamps as specified in IEC 60081 and IEC 60901 and other tubular fluorescent lamps for high frequency operation.
SANS 61000-3-2:2006/ IEC 61000-3-2:2005 (SANS 61000-3-2:2005)	<i>Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current $\leq 16 \text{ A per phase}$).</i> Deals with the limitation of harmonic currents injected into the public supply system. Specifies limits of harmonic components of the input current which may be produced by equipment tested under specified conditions.
SANS 61000-4-3:2006/ IEC 61000-4-3:2006 (SANS 61000-4-3:2003)	<i>Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test.</i> Applicable to the immunity requirements of electrical and electronic equipment to radiated electromagnetic energy. Establishes test levels and the required test procedures.
SANS 61000-4-5:2006/ IEC 61000-4-5:2005 (SANS 6100-4-5:2002)	<i>Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test.</i> Relates to the immunity requirements, test methods and range of recommended test levels for equipment to unidirectional surges caused by overvoltages from switching and lightning transients. Several test levels are defined which relate to different environment and installation conditions.
SANS 61034-1:2006/ IEC 61034-1:2005 (SABS IEC 61034-1:1997)	<i>Measurement of smoke density of cables burning under defined conditions – Part 1: Test apparatus.</i> Provides details of the test apparatus to be used for measuring smoke emission when electric or optical fibre cables are burnt under defined conditions, for example, a few cables burnt horizontally. The light transmittance (I_t) under flaming combustion and smouldering conditions can be used as a means of comparing different cables or complying with specific requirements.
SANS 61034-2:2006/ IEC 61034-2:2005 (SABS IEC 61034-2:1997)	<i>Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements.</i> Provides details of the test procedure for the measurement of the density of smoke emitted from cables burning under defined conditions. Describes the means of preparing and assembling cables for test, the method of burning the cables, and gives recommended requirements for evaluating test results.
SANS 61048:2006/ IEC 61048:2006 (SABS IEC 61048:1999)	<i>Auxiliaries for lamps – Capacitors for use in tubular fluorescent and other discharge lamp circuits – General and safety requirements.</i> States the requirements for both self-healing and non-self-healing continuously rated a.c. capacitors of up to and including 2,5 kVA, and not less than 0,1 μF , having a rated voltage not exceeding 1 000 V, which are intended for use in discharge lamp circuits operating at 50 Hz or 60 Hz and at altitudes up to 3 000 m.
SANS 61347-2-1:2006/ IEC 61347-2-1:2006 (Ed. 1.1)	<i>Lamp control gear – Part 2-1: Particular requirements for starting devices (other than glow starters). Consolidated edition incorporating amendment No. 1.</i> Amended to update the scope, normative references and definitions, to change the requirements for electric strength, fault conditions, heating of independent starting devices and construction, and to do corrections in figure 1 and annex I.
SANS 61347-2-2:2006/ IEC 61347-2-2:2006 (Ed. 1.2)	<i>Lamp control gear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps. Consolidated edition incorporating amendment No. 2.</i> Amended to change requirements for creepage distances and clearances in table 1.7.
SANS 61347-2-3:2005/ IEC 61347-2-3:2004 (Ed. 1.1)	<i>Lamp control gear – Part 2-3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps. Consolidated edition incorporating IEC amendment No. 2.</i> Amended to update definitions, to change general requirements, requirements for mandatory markings, moisture resistance and insulation, and tests (in annex H), to extend a figure that covers limits for capacitive leakage current of HF-operated fluorescent lamps, and to add a new annex L that gives information for ballast design.
SANS 61442:2006/ IEC 61442:2005 (SABS IEC 61442:1997)	<i>Test methods for accessories for power cables with rated voltages from 6 kV ($U_m = 7,2 \text{ kV}$) up to 30 kV ($U_m = 36 \text{ kV}$).</i> Specifies the test methods to be used for type testing accessories for power cables with rated voltages from 3,6/6 (7,2) kV up to 18/30 (36) kV. Test methods are specified for accessories for extruded and paper insulated cables.
SANS 200053:2006/ ETSI EG 200053:2004 (SANS 200053:2003)	<i>Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio site engineering for radio equipment and systems.</i> Provides guidance for engineers concerned with the design, specification, installation, operation and maintenance of radio systems; is directed particularly towards systems working in the Very High Frequency (VHF) and Ultra High Frequency (UHF) bands.
SANS 300386:2006/ ETSI EN 300386:2005 (SANS 300386:2005)	<i>Electromagnetic compatibility and Radio spectrum Matters (EM); Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements.</i> Covers the EMC requirements for equipment intended to be used within a telecommunications network, for example switching equipment, non-radio transmission equipment and ancillary equipment, power supply equipment, and supervisory equipment.

Standard No. and year	Title, scope and purport
SANS 301489-7:2006/ ETSI EN 301489-7:2005 (SANS 301489-7:2005)	<i>Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS). Covers, together with part 1, the assessment of radio equipment meeting Phase 1, Phase 2, and Phase 2+ GSM and DCS digital cellular mobile and portable radio equipment transmitting and receiving speech or data, or both, and operating in digital cellular radio telecommunications systems, and associated ancillary equipment in respect of ElectroMagnetic Compatibility (EMC).</i>
SANS 301489-24:2006/ ETSI EN 301489-24:2005 (SANS 301489-24:2005)	<i>Electromagnetic compatibility and Radio spectrum Matters (EM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) for Mobile and portable (UE) radio and ancillary equipment. Covers, together with part 1, the assessment of "3rd generation" digital cellular (IMT-2000 CDMA Direct Spread) (UTRA) mobile and portable (UE) radio terminal equipment and associated ancillary equipment in respect of ElectroMagnetic Compatibility (EMC).</i>
SANS 301489-25:2006/ ETSI EN 301489-25:2005 (SANS 301489-25:2005)	<i>Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 25: Specific conditions for CDMA 1x spread spectrum Mobile Stations and ancillary equipment. Covers, together with SANS 301489-1, the assessment of CDMA 1x spread spectrum mobile and portable (UE) radio terminal equipment and associated ancillary equipment in respect of ElectroMagnetic Compatibility (EMC).</i>

SCHEDULE 3: CANCELLATION OF STANDARDS

In terms of section 16(3) of the Act the following standards have been cancelled.

Standard No. and year	Title
SANS 963:2001	<i>Cotton waste</i>
SANS 1403:1986	<i>Wood-burning stoves, water heaters and space heaters (reduced smoke emission type)</i>
SANS 1648:1995	<i>Mechanical coupling devices for motor vehicles and their trailers</i>
SANS 1785:1997	<i>Radio equipment and systems (RES) – Wideband data transmission systems – Technical characteristics and test conditions for data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques</i>
SANS 5253:1964	<i>Determination of boric acid in boric lint</i>
SANS 5325:1972	<i>Appearance grade of single cotton yarns</i>
SANS 5551:1981	<i>Sodium and potassium contents of portland cement (by atomic absorption of flame emission)</i>
SANS 5735:1971	<i>Silicon dioxide content of cement and calcined argillaceous material</i>
SANS 5738:1971	<i>Ferric oxide content and aluminium oxide content of cement and of calcined argillaceous material</i>
SANS 5739:1971	<i>Calcium oxide content of cement and calcined argillaceous material</i>
SANS 5740:1971	<i>Magnesium oxide content of cement and calcined argillaceous material</i>
SANS 5744:1971	<i>Insoluble residue content of cement</i>
SANS 5749:1971	<i>Compressive strength of cement mortar cubes</i>
SANS 5751:1988	<i>Standard consistency of cement paste</i>
SANS 5755:1971	<i>Air content of cement mortar</i>
SANS 6144:1989	<i>Permitted explosives: Velocity of detonation</i>
SANS 6153:1989	<i>Reactivity with lime of Portland cement extenders</i>
SANS 10185-1:1982	<i>The industrial sterilization of medical products – Part 1: Gamma radiation facilities</i>
SANS 10250-2:1993	<i>The minimization of environmental pollution during the servicing and repair of automotive air-conditioning equipment – Part 2: Servicing and repairs using refrigerant recycle equipment</i>
SANS 50196-21:1989	<i>Methods of testing cement – Part 21: Determination of the chloride, carbon dioxide and alkali content of cement</i>

SCHEDULE 4: ADDRESSES OF SABS OFFICES

The addresses of offices of the South African Bureau of Standards where copies of **standards** mentioned in this notice can be obtained, are as follows:

1. The President, South African Bureau of Standards, 1 Dr Lategan Road, Groenkloof, Private Bag **X191**, Pretoria **0001**.
 2. The Manager, Western Cape Regional Office, SABS, Liesbeek Park **Way**, Rosebank, PO Box **615**, Rondebosch, 7701.
 3. The Manager, Eastern Cape Regional Office, SABS, **30** Kipling Road, cor Diaz and Kipling Roads, **Port** Elizabeth, PO Box **3013**, **North** End **6056**.
 4. The Manager, KwaZulu-Natal Regional Office, **SABS**, **15** *Garth* Road, Waterval **Park**, Durban, **PO Box 30087**, Mayville **4058**.
 5. The Control Officer, Bloemfontein Branch Office, SABS, **34** Victoria Road, Willows, Bloemfontein, PO Box **20265**, Willows, **9320**.
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