DEPARTMENT OF TRADE AND INDUSTRY
DEPARTEMENT VAN HANDEL EN NYWERHEID

No. 1272 **15 December *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 164-6:2006	***Plug and socket-outlet systems for household and similar purposes for use in South Africa – Part 6: Round two-pole systems, 10 A 250 V a.c. and 16 A 250 V a.c., for connection of class II equipment.*** Covers the rating and dimensions of round two-pole plugs and socket-outlets, rated 10 A 250 V a.c. and 16 A 250 V a.c., without earthing contact, for connection of class II equipment for household and similar purposes in South Africa.
SANS 414:2006	***Coal and coke – Analysis and testing – Higher rank coal ash and coke ash – Major and minor elements – Acid digestion/flame atomic absorption spectrometric method.*** Sets out methods for the determination of silicon, aluminium, iron, calcium, magnesium, sodium, potassium, titanium and manganese in higher rank coal ash and coke ash by flame atomic absorption spectrometry after acid digestion.
SANS 6971:2006/ ISO 6971:2002	***Cranked-link drag chains of welded construction, attachments and sprockets.*** Specifies the characteristics of cranked-link drag chains **of** welded construction suitable for conveying bulk materials, together with associated attachments and chain sprockets. The chain dimensions specified ensure interchangeability of both complete chains and individual links for repair purposes. This standard is applicable to sprockets with between 5 and 20 teeth. Specifications are also given for five types of attachment for use with the convevor chains conformine to this standard.
SANS 6972:2006/ ISO 6972:2002	***Cranked-link mill chains of welded construction, attachments and sprockets.*** Specifies the characteristics of cranked-link mill chains of welded construction suitable for conveying bulk materials, together with associated attachments and chain sprockets. The chain dimensions specified in this standard ensure interchangeability of both complete chains and individual **links** for repair purposes. This standard is applicable to sprockets with between **5** and 36 teeth. Specifications are also given for eight types of attachment for use with the convevor chains conformine to this standard.
SANS 6973:2006/ ISO 6973:1986	***Drop-forged rivetless chains for conveyors.*** American National standard, ANSI B2922M, deals with three types of rivetless chain, i.e. "regular", "X" and "modified X" types. This standard deals with chains similar to the " X type with an assured dimension on the centre link similar to the "modified X" type. The chains specified in this standard are intended to be used in place of all three types of ANSI chains. By adhering to the dimensions specified in this standard, it is possible to ensure that parts of chains of different origins can be joined together. It should be noted, however, that the pin should be of the same origin as the side bars. It is recognized that methods other than "drop"-forging may be used to manufacture these chains, e.g. air, steam, press or other forging methods.
SANS 7682:2006/ ISO 7682:2003	***Plastics piping systems for soil and waste discharge (low and high temperature) inside buildings – Acrylonitrile-butadiene-styrene (ABS).*** Specifies the requirements for solid-wall acrylonitrile-butadiene-styrene (ABS) pipes and fittings for soil and waste discharge (low and high temperature) above ground inside buildings, **as** well as the system itself. It does not include buried pipework.
SANS 14159:2006/ ISO 14159:2002	***Safety of machinery – Hygiene requirements for the design of machinery.*** Specifies hygiene requirements of machines and provides information for the intended use to be pi vided by the manufacturer. It applies to all types of machines and associated equipment used in applications where hygiene risks to the consumer of the product can occur.
SANS 18000-1:2006/ ISO/IEC 18000-1:2004	***Information technology – Radio frequency identification for item management – Part 1: Reference architecture and definition of parameters to be standardized.*** Describes the generic architecture concepts in which item identification may commonly be required within the logistics and supply chain and defines the parameters to be determined in any standardized air interface definition in the ISO/IEC 18000 series (published in South Africa **as** identical adoptions under the designation *SANS* 18000). The subsequent parts of ISO/IEC 18000 provide the specific values for definition of the air interface parameters for a particular frequency or type of air interface, from which compliance (or non-compliance) with this part of SANS 18000 can be established. Provides description of example conceotual architectures in which these air interfaces are often to be utilized.

Standard No. and year	Title, scope and purport
SANS 18000-2:2006/ ISO/IEC 18000-2:2004	***Information technology – Radio frequency identification for item management – Part 2: Parameters for air interface communications below 135 kHz.*** Defines the air interface for radio-frequency identification (RFID) devices operating below 135 kHz used in item management applications. Provides a common technical specification for WID devices to allow for compatibility and to encourage inter-operability of products. Defines the forward and return link parameters for technical attributes including, but not limited to, operating frequency, operating channel accuracy, occupied channel bandwidth, spurious emissions, modulation, duty cycle, data coding, bit rate, bit rate accuracy, bit transmission order and the communications protocol used in the air interface. Describes two types of tag of which the detailed technical differences between the types are shown in the parameter tables. Specifies the physical layer that is used for communication between the interrogator and the tag, the protocol and the commands, and the method to detect and comn unicate with one tag among several tags ("anti-collision").
SANS 18000-3:2006/ ISO/IEC 18000-3:2004	***Information technology – Radio frequency identification for item management – Part 3: Parameters for air interface communications at 13.56 MHz.*** Provides physical layer, collision management system and protocol values for radio frequency identification (RFID) systems for item identification in accordance with the requirements of ISO/IEC 18000-1 (published in South Africa as an identical adoption under the designation SANS 18000-1). Relates solely to systems operating at 13,56 MHz. Has two modes of operation, intended to address different applications. The modes, whilst not interoperable, are non-interfering. The detailed technical differences between the modes are shown in the parameter tables.
SANS 18000-4:2006/ ISO/IEC 18000-4:2004	***Information technology – Radio frequency identification for item management – Part 4: Parameters for air interface communications at 2,45 GHz.*** Defines the air interface for radio-frequency identification (RFID) devices operating in the 2,45 GHz Industrial, Scientific, and Medical (ISM) band used in item management applications. Its purpose is to provide a common technical specification for RFID devices. Is intended to allow for compatibility and to encourage inter-operability of products. Defines the forward and return link parameters for technical attributes including, but not limited to, operating frequency, operating channel accuracy, occupied channel bandwidth, maximum EIRP, spurious emissions, modulation, duty cycle, data coding, bit rate, bit rate accuracy, bit transmission order, and, where appropriate, operating channels, frequency hop rate, hop sequence, spreading sequence, and chip rate. It further defines the communications protocol used in the air interface. Contains two modes: the first is a passive tag operating as an interrogator talks first, while the second is a battery-assisted tag operating as a tag talks first. The detailed technical differences between the modes are shown in the parameter tables.
SANS 18000-6:2006/ ISO/IEC 18000-6:2004	***Information technology – Radio frequency identification for item management – Part 6: Parameters for air interface communications at 860 MHz to 960 MHz.*** Defines the air interface for radio-frequency identification (RFID) devices operating in the 860 MHz to 960 MHz Industrial, Scientific, and Medical (ISM) band used in item management applications. Its purpose is to provide a common technical specification for RFID devices that may be used by ISO committees developing RFID application standards. Is intended to allow for compatibility and to encourage inter-operability of products for the growing RFID market in the international marketplace. Stipulates the forward and return link parameters for technical attributes including, but not limited to, operating frequency, operating channel accuracy, occupied channel bandwidth, maximum EIRP, spurious emissions, modulation, duty cycle, data coding, bit rate, bit rate accuracy, bit transmission order, and, where appropriate, operating channels, frequency hop rate, hop sequence, spreading sequence, and chip rate. Defines the communications protocol used in the air interface. Contains one mode with two types. Both types use a common return link and are reader talks first. Type A uses Pulse Interval Encoding (PIE) in the forward link, and an adaptive ALOHA collision arbitration algorithm. Type B uses Manchester in the forward link and an adaptive binary tree collision arbitration algorithm. The detailed technical differences between the two types are shown in the parameter tables.
SANS 18047-3:2006/ ISO/IEC TR 18047-3:2004	***Information technology – Radio frequency identification device conformance test methods – Part 3: Test methods for air interface communications at 13,56 MHz.*** Defines test methods for determining the conformance of radio-frequency identification devices (RFID) (tags and interrogators) for item management with the specifications given in the corresponding part of ISO/IEC 18000 (parts of ISO/IEC 18000 have been published in South Africa as identical adoptions under the designation SANS 18000), but does not apply to the testing of conformity with regulatory or similar requirements. The test methods require only that the mandatory functions, and any optional functions which are implemented, be verified. This may, in appropriate circumstances, be supplemented by further, application-specific functionality criteria that are not available in the general case. Includes mode-specific conformance parameters including nominal values and tolerances, and parameters that apply directly affecting system functionality and inter-operability. Does not include parameters that are already included in regulatory test requirements and high-level data encoding conformance test parameters.
SANS 18047-4 2006/ ISO/IEC TR 18047-4 2004	***Information technology – Radio frequency identification device conformance test methods – Part 4: Test methods for air interface communications at 2,45 GHz.*** Defines test methods for determining the conformance of radio frequency identification devices (RFID) (tags and interrogators) for item management with the specifications given in the corresponding part of ISO/IEC 18000 (parts of ISO/IEC 18000 have been published in South Africa as identical adoptions under the designation SANS 18000), but does not apply to the testing of conformity with regulatory or similar requirements. The test methods require only that the mandatory functions, and any optional functions which are implemented, be verified. This may, in appropriate circumstances, be supplemented by further, application-specific functionality criteria that are not available in the general case. Includes mode-specific conformance parameters including nominal values and tolerances, and parameters that apply directly affecting system functionality and inter-operability. Does not include parameters that are already included in regulatory test requirements, and high-level data encoding conformance test parameters.
SANS 19103:2006/ ISO/TS 19103:2005	***Geographic information – Conceptual schema language.*** Provides rules and guidelines for the use of a conceptual schema language, the Unified Modelling Language (UML) within the ISO geographic information standards. Also provides guidelines on how UML should be used to create standardized geographic information and service models.
SANS 19109:2006/ ISO 19109:2005	***Geographic information – Rules for application schema.*** Defines rules for creating and documenting application schemas, including principles for the definition of features. Includes conceptual modelling of features and their properties from a universe of discourse; definition of application schemas; use of the conceptual schema language for application schemas; transition from the concepts in the conceptual model to the data types in the application schema; and integration of standardized schemas from other ISO geographic information standards with the application schema.

Standard No. and year	Title, scope and purport
SANS 19117:2006/ ISO 19117:2005	***Geographic information*** – *Portrayal.* Defines a schema describing the portrayal of geographic information in a form understandable by humans. Includes the methodology for describing symbols and mapping of the schema to an application schema. Does not include standardization of cartographic symbols, and their geometric and functional descriptions.
SANS 19118:2006/ ISO 19118:2005	***Geographic information – Encoding.*** Specifies the requirements for defining encoding rules to be used for interchange of geographic data within the ISO 19100 series of International Standards. Includes requirements for creating encoding rules based on Unified Modelling Language (UML) schemas; requirements for creating encoding services and an informative Extensible Markup Language (EML) based encoding rule for neutral interchange of geographic data.
SANS 19127:2006/ ISO/TS 19127:2005	***Geographic information – Geodetic codes and parameters.*** Defines rules for the population and maintenance of registers of geodetic codes and parameters and identifies the data elements, in compliance with ISO 19111 and ISO 19135 (ISO 19111 and ISO 19135 have been published in South Africa as identical adoptions under the designations SANS 19111 and SANS 19135), required within these registers. Recommendations for the use of the registers, the legal aspects, the applicability to historic data, the completeness of the registers and a mechanism for maintenance are specified by the registers themselves.
SANS 19133:2006/ ISO 19133:2005	***Geographic information – Location-based services – Tracking and navigation.*** Explains the data types and operations associated with those types, for the implementation of tracking and navigation services. Is designed to specify web services that can be made available to wireless devices through web-resident proxy applications, but is not restricted to that environment.
SANS 19135:2006/ ISO 19135:2005	***Geographic information – Procedures for item registration.*** Provides procedures to be followed in establishing, maintaining and publishing registers of unique, unambiguous and permanent identifiers and meanings that are assigned to items of geographic information.
SANS 20089:2006/ ECE R89:1993	***Uniform prescriptions for approval of: I Vehicles with regard to limitation of their maximum speed or their adjustable speed limitation function; II Vehicles with regard to the installation of a speed limiting device (SLD) or adjustable speed limitation device (ASLD) of an approved type; III Speed limitation devices (SLD) and adjustable speed limitation device (ASLD).*** Applies to vehicles of categories M3, N2, and N3 equipped with an SLD and to vehicles of categories M and N equipped with an adjustable speed limitation device (ASLD) which have not been separately approved, or so designed or equipped (or both) that its component parts can be regarded as totally or partially fulfilling the function of an SLD or ASLD, as appropriate. It also applies to the installation on vehicles of categories M3, N2, and N3 of SLDs and installation on vehicles of categories M and N of ASLD which have been type approved to this standard, and to SLDs and ASLD which are intended to be fitted to vehicles of categories M and N. The purpose of this standard is to limit the road speed of vehicles by means of a vehicle system which has the primary function of controlling the fuel feed to the engine or via the engine management.
SANS 21188:2006/ ISO 21188:2006	***Public key infrastructure for financial services – Practices and policy framework.*** Describes a framework of requirements to manage a public key infrastructure (PKI) through certificate policies and certification practice statements and to enable the use of public key certificates in the financial services industry. It also defines control objectives and supporting procedures to manage risks.
SANS 22222:2006/ ISO 22222:2005	***Personal financial planning – Requirements for personal financial planners.*** Defines the personal financial planning process and specifies ethical behaviour, competences and experience requirements for personal financial planners. It is applicable to all personal financial planners regardless of their employment status. It describes and addresses the various methods of conformity assessment and specifies requirements applying to each of them.
SANS 60309-4:2006/ IEC 60309-4:2006	***Plugs, socket-outlets and couplers for industrial purposes – Part 4: Switched socket-outlets and connectors with or without interlock.*** Applies to self-contained products that combine within a single enclosure, a socket-outlet or connector in accordance with IEC 60309-1 or IEC 60309-2 (published in South Africa as identical adoptions under the designations SANS 60309-1 and SANS 60309-2) and a switching device, with a rated operating voltage not exceeding 690 V d.c. or a.c. and 500 Hz, and a rated current not exceeding 250 A, primarily intended for industrial use, either indoors or outdoors.
SANS 60998-1:2006/ IEC 60998-1:2002	***Connecting devices for low-voltage circuits for household and similar purposes – Part 1: General requirements.*** Applies to connecting devices as separate entities for the connection of two or more electrical copper conductors rigid (solid or stranded) or flexible, having a cross-sectional area of 0,2 square millimetres up to and including 35 square millimetres and equivalent AWG conductors with a rated voltage not exceeding 1 000 V a.c. up to and including 1 000 Hz and 1 500 V d.c. where electrical energy is used for household and similar purposes.
SANS 60998-2-1:2006/ IEC 60998-2-1:2002	***Connecting devices for low-voltage circuits for household and similar purposes – Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units.*** Applies to connecting devices with screw-type clamping units primarily suitable for connecting unprepared conductors. Covers low-voltage circuits with a rated current not exceeding 1 000 V a.c. up to and including 1 000 Hz and 1 500 V d.c. where electrical energy is used for household and similar purposes.
SANS 60998-2-2:2006/ IEC 60998-2-2:2002	***Connecting devices for low-voltage circuits for household and similar purposes – Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units.*** Applies to connecting devices with screwless-type clamping units primarily suitable for connecting unprepared conductors. Covers low-voltage circuits with a rated voltage not exceeding 1 000 V a.c. up to and including 1 000 Hz and 1 500 V d.c. where electrical energy is used for household and similar purposes.
SANS 60998-2-3:2006/ IEC 60998-2-3:2002	***Connecting devices for low-voltage circuits for household and similar purposes – Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units.*** Applies to connecting devices with insulation-piercing clamping units primarily suitable for connecting insulated unprepared conductors. Covers low-voltage circuits with a rated voltage not exceeding 1 000 V a.c. up to and including 1 000 Hz and 1 500 V d.c. where electrical energy is used for household and similar purposes.

Standard No. and year	Title, scope and purport
SANS 60998-2-4:2006/ IEC 60998-2-4:2004	***Connecting devices for low-voltage circuits for household and similar purposes – Part 2-4: Particular requirements for twist-on connecting devices.*** Applies to twist-on connecting devices for connecting two or more unprepared rigid and/or flexible copper conductors having a cross-sectional area of 0,5 square millimetres up to and including 16 square millimetres, the total cross-sectional area of the connected conductors not exceeding 35 square millimetres. Covers low-voltage circuits up to 1 000 V a.c. and 1 500 V d.c. where electrical energy is used for household and similar purposes.
SANS 62217:2006/ IEC 62217:2005	***Polymeric insulators for indoor and outdoor use with a nominal voltage > 1000 V – General definitions. test methods and acceptance criteria.*** Applies to polymeric insulators whose insulating body consists of one or various organic materials. Polymeric insulators covered by this standard include both solid core and hollow insulators. They are intended for use on overhead lines and in indoor and outdoor equipment with a rated voltage greater than 1 000 V.

Standard No. and year	Title, scope and purport
SANS 33:2006 (Ed. 1.1)	***Equipment for use in industrial rope access work. Consolidated edition incorporating amendment No. 1.*** Amended to move reference to South African legislation to the foreword, and to update referenced standards.
SANS 39:2006/ ISO 406:2004 (SABS ISO 407:1991)	***Small medical gas cylinders – Pin-index yoke-type valve connections.*** Applies to pin-index yoke-type valve connections with a maximum working pressure (filling pressure at 15 °C) of 200 bar for small medical gas cylinders (5 L or below) used for patient care, including therapeutic, diagnostic and prophylactic applications, in hospitals and for emergency treatment.
SANS 141:2006 (Ed. 2.2)	***Glass-reinforced polyester (GRP) laminates. Consolidated edition incorporating amendment No. 2.*** Amended to change the designation of SABS standards to SANS standards, to remove references to the **SABS** mark, to update normative references, to allow the use of other resins, to replace flammability tests which have become obsolete, and to include a new figure 10 to show the orientation of a burner and specimen.
SANS 223:2006 (Ed. 3.1)	***Writing equipment – Coloured chalks and pastels. Consolidated edition incorporating amendment No. 1.*** Amended to change the designation from SABS to SANS, to update referenced standards, and to change the definition for "acceptable".
SANS 257:2006 (Ed. 2.2)	***Wax shoe polish. Consolidated edition incorporating amendment No. 2.*** Amended to delete reference to SANS 716 and to remove reference to legislation from the text.
SANS 289:2006 (Ed. 1.1)	***Labelling requirements for prepackaged products (prepackages) and general requirements for the sale of goods subject to legal metrology control. Consolidated edition incorporating amendment No. 1.*** Amended to update references, make provision for all types of gas cylinders (5.3.6), to allow free samples of the same type of product under certain conditions (5.3.7), to delete prescribed sizes for prepackaged cheese (table E.1), to add a requirement for the size of eggs to be marked on containers (D.5 and table E.1), to clarify a requirement for non-consumer packages in 1.2.3 and to clarify a requirement for marking a prepackaged product in **A.7.**
SANS 446:2006 (SABS 446: 1999)	***Absorbent gauze (fabric and swabs) and butter muslin.*** Specifies requirements for the manufacture of three types of absorbent gauze and one type of butter muslin.
SANS 469:2006 (SABS 469:1991)	***Absorbent cotton lint.*** Specifies requirements for one type of absorbent cotton lint suitable for surgical dressings
SANS 497:2006 (Ed. 4.2)	***Glazed ceramic sanitaryware. Consolidated edition incorporating amendment No. 2.*** Amended to change the designation of SABS standards to SANS standards, with no technical changes.
SANS 685:2006 (SABS 685:2002)	***Fibre-cement sheets (flat and profiled).*** Specifies requirements for flat and profiled (straight and curved) sheets manufactured from fibre-cement. It does not cover coatings that are applied after the manufacture of the sheets.
SANS 820:2006 (SABS 820:1974)	***Mild steel nails.*** 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.
SANS 866:2006 (Ed. 2.3)	***Stainless steel cutlery. Consolidated edition incorporating amendment No. 3.*** Amended to delete reference to metric units from the title, to update the definition of "acceptable", to change two footnotes to notes, to delete information on the obtainability of a reference sample, and to update a referenced standard.
SANS 962-1:2006 (Ed. 2.1)	***Mechanical fasteners for conveyor belts – Part 1: Plate-and-bolt iype fasteners. Consolidated edition incorporating amendment No. 1.*** Amended to update referenced standards and the definition of "acceptable", and to change the designation of SABS standards to SANS standards.
SANS 1003:2006 (Ed. 2.1)	***Fine china and vitrified tableware for domestic use. Consolidated edition incorporating amendment No. 1.*** Amended to change the designation of SABS standards to SANS standards with no technical changes.
SANS 1056-2:2006 (Ed. 2.1)	***Ball valves – Part 2: Heavy duty valves (notfire-safe). Consolidated edition incorporating amendment No. 1.*** Amended to update referenced standards, to change the requirements for finishes of welds, to add figures on porosity and slag inclusions (figures 3 to 7), and to add a quality verification annex (annex B) and a bibliography.

Standard No. and year	Title, scope and purport
SANS 1056-3:2006 (Ed. 2.1)	***Ball valves – Part 3: Light duty valves (notfire-sa@). Consolidated edition incorporating amendment No. 1.*** Amended to update referenced standards and the definition of "acceptable", to replace an alloy designation for gunmetal components in the table on materials for the components of a valve (table 1), to change the requirements for finishes of welds, and to add figures on porosity and slag inclusions (figures 3 to 7).
SANS 1058:2006 (Ed. 1.4)	***Concrete paving blocks. Consolidated edition incorporating amendment No. 4.*** Amended to change the designation of SABS standards to SANS standards and to update referenced standards.
SANS 1083:2006 (Ed. 2.2)	***Aggregates from natural sources – Aggregates for concrete. Consolidated edition incorporating amendment No. 2.*** Amended to change the designation of SABS standards to SANS standards, to update the layout of definitions and to update the referenced standards.
SANS 1171:2006 (Ed. 2.2)	***Metal screws for wood. Consolidated edition incorporating amendment No. 2.*** Amended to change the designation of SABS standards to SANS standards, to update referenced standards and the definition of "acceptable", to delete reference to the certification mark, to correct labels and dimension symbols and values in tables, to correct cross references in annex A, and to add a note to annex C.
SANS 1240:2006 (Ed. 2.1)	***Automatic shut-off flush valves for water closets and urinals. Consolidated edition incorporating amendment No. 1.*** Amended to update referenced standards, to change the requirement for stainless steel, and to correct a cross reference.
SANS 1411-3:2006 (Ed. 2.1)	***Materials of insulated electric cables and flexible cords – Part 3: Elastomers. Consolidated edition incorporating amendment No. 1.*** Amended to change the designation of SABS standards to SANS standards and to update referenced standards.
SANS 1427:2006 (SABS 1427:1995)	***Conforming bandages.*** Covers two types of woven and four types of knitted conforming bandage for use as surgical dressings. Specifies type, width, structure and performance.
SANS 1507-6:2006 (Ed. 1.1)	***Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V) – Part 6: Service cables. Consolidated edition incorporating amendment No. 1.*** Amended to change the designation of SABS standards to SANS standards, to update referenced standards, to delete reference to the certification mark scheme, to change a reference to refer to the nominal diameter of communication cores, and to include a bending test and a test for adherence of the covering sheath.
SANS 1519-1:2006 (Ed. 2.2)	***Road signs – Part 1: Retro-reflective sheeting material. Consolidated edition incorporating amendment No. 2.*** Amended to change the observation angle for materials of class I, II and III in the table on minimum coefficients of retro-reflection (new materials) (table 1), to change the minimum values of luminance factors of materials of class IV A and IV B (fluorescent orange, fluorescent yellow and fluorescent green) in the table on luminance factor (table 4), and to change the orientation angle for the reading taken in the retro-reflection test.
SANS 1582-1:2006 (Ed. 1.3)	***Light industrial electric floor treatment machines – Part 1: Vacuum cleaners. Consolidated edition incorporating amendment No. 3.*** Amended to change the designation of SABS standards to SANS standards, to update the definition of "acceptable", to change references to the use of language in marking and instructions, to delete reference to the certification mark, and to update a referenced standard.
SANS 1582-2:2006 (Ed. 1.3)	***Light industrial electric floor treatment machines – Part 2: Floor polishers. Consolidated edition incorporating amendment No. 3.*** Amended to change the designation of SABS standards to SANS standards, to update the definition of "acceptable", to change references to the use of language in marking and instructions, to delete reference to the certification mark, and to update a referenced standard.
SANS 1619:2006 (SABS 1619:2001)	***Small power distribution units (ready-board) for single-phase 230 V service connections.*** Specifies requirements for distribution boxes that are ready-wired with socket-outlets, with or without a permanently wired luminaire. The boxes are intended for single-phase 230 V service connections for direct connection to the terminals of an electricity dispenser or meter, and for use either in a dwelling or installed in a waterproof enclosure.
SANS 1718-1:2006 (SABS 1718-1:1997)	***Gaming equipment – Part 1: Casino equipment.*** Specifies the constructional and operational requirements for gaming devices that reside on, or are operated on (or both), the gaming floor of a casino. Covers gaming machines, jackpot controllers and displays, and machine consoles.
SANS 1830:2006 (Ed. 1.1)	***Flexible piping for underground use at service stations and consumer installations. Consolidated edition incorporating amendment No. 1.*** Amended to change the designation of SABS standards to SANS standards, with no technical changes.
SANS 5264:2006 (SABS SM 264:1987)	***Pile-to-ground length ratio of warp yarns in textile fabrics with uncut pile.*** Specifies a method for the determination of the pile-to-ground length ratio of warp yams in textile fabrics that have an uncut pile.
SANS 5748:2006 (SABS SM 748:1971)	***Specific surface of cement.*** Describes a method to determine the specific surface of cement.
SANS 5838:2006 (SABS SM 838:1976)	***Sand equivalent value of fine aggregates.*** Describes a method to determine the sand equivalent value of fine aggregates
SANS 5844:2006 (Ed. 2.1)	***Particle and relative densities of aggregates. Consolidated edition incorporating amendment No. 1.*** Amended to change the designation of SABS standards to SANS standards and to update referenced standards.
SANS 5856:2006 (SABS SM 856:1976)	***Bulking of fine aggregates.*** Specifies a method for the determination of the bulking of fine aggregates.
SANS 5860:2006 (Ed. 1.1)	***Concrete tests – Dimensions, tolerances and uses of cast test specimens. Consolidated edition incorporating amendment No. 1.*** Amended to change the designation of SABS standards to SANS standards, with no technical changes.

Standard No. and year	Title, scope and purport
SANS 5862-1:2006 (Ed. 2.1)	*Concrete tests – Consistence of freshly mixed concrete – Slump test. Consolidated edition incorporating amendment No. 1.* Amended to change the designation of SABS standards to SANS standards, with no technical changes.
SANS 5862-2:2006 (Ed. 2.1)	*Concrete tests – Consistence of freshly mixed concrete – Flow test. Consolidated edition incorporating amendment No. 1.* Amended to change the designation of SABS standards to SANS standards, with no technical changes.
SANS 5862-3:2006 (Ed. 2.1)	*Concrete tests – Consistence of freshly mixed concrete – Vebe test. Consolidated edition incorporating amendment No. 1.* Amended to change the designation of SABS standards to SANS standards, with no technical changes.
SANS 5862-4:2006 (Ed. 2.1)	*Concrete tests – Consistence of freshly mixed concrete – Compacting factor and compaction index. Consolidated edition incorporating amendment No. 1.* Amended to change the designation of *SABS* standards to SANS standards, with no technical chanees.
SANS 5864:2006 (Ed. 2.1)	*Concrete tests – Flexural strength of hardened concrete. Consolidated edition incorporating amendment No. 1.* Amended to change the designation of SABS standards to SANS standards and to update a referenced standard.
SANS 6077:2006 (SABS SM 1077:1984)	*Fire test for valves and other assemblies used in fire-hazardous situations.* Covers the determination of the effect of elevated temperatures and fire on valves and other assemblies in pipelines used in fire-hazardous situations in respect of leakage and the operatability (if applicable) of such assemblies.
SANS 6085:2006 (Ed. 2.2)	*Concrete tests – Initial drying shrinkage and wetting expansion of concrete. Consolidated edition incorporating amendment No. 2.* Amended to change the designation of SABS standards to SANS standards, with no technical changes.
SANS 6155:2006 (SABS SM 1155:2002)	*Effect of extenders, used with cement, on the reduction of expansion caused by alkali-silica reaction (accelerated mortar prism method).* Describes a method to determine the effect of extenders used with cement on the reduction of alkali-silica reaction.
SANS 6192:2006 (Ed. 1.1)	*Corrugated fibre board – Determination of ply adhesion. Consolidated edition incorporating amendment No. 1.* Amended to change the designation of SABS standards to SANS standards, with no technical changes.
SANS 6193:2006 (Ed. 1.1)	*Corrugated fibreboard – Determination of thickness. Consolidated edition incorporating amendment No. 1.* Amended to change the designation of SABS standards to SANS standards, with no technical changes.
SANS 6195:2006 (Ed. 1.1)	*Examination for the presence of viable* Shigella *organisms in foods. Consolidated edition incorporating amendment No. 1.* Amended to change the designation of SABS standards to SANS standards, and to stipulate the temperature and time limits for autoclaving.
SANS 6196:2006 (Ed. 1.1)	*Examination for the presence of viable pathogenic* Vibrio *organisms in foods. Consolidated edition incorporaling amendment No. 1.* Amended to change the designation of SABS standards to SANS standards, to stipulate the temperature and time limits for autoclaving, and to put the characteristics of colonies and presumptive identification in a table.
SANS 6244:2006 (Ed. 1.1)	*Particles of diameter not exceeding 20 μm and not exceeding 5 μm and smaller, respective&. in fine aggregate (pipette method). Consolidated edition incorporating amendment No. 1.* Amended to change the designation of SABS standards to SANS standards, and to update a referenced standard.
SANS 6245:2006 (Ed. 1.2)	*Potential reactivity of aggregates with alkalis (accelerated mortar prism method). Consolidated edition incorporating amendment No. 2.* Amended to change the designation of SABS standards to SANS standards and to update a referenced standard
SANS 6246:2006 (Ed. 1.2)	*Treton impact value of aggregates. Consolidated edition incorporating amendment No. 2.* Amended to change the designation of SABS standards to SANS standards, with no technical changes.
SANS 6255:2006 (Ed. 1.1)	*Mortar tests – Compressive strength of mortar. Consolidated edition incorporating amendment No. 1.* Amended to change the designation of SABS standards to SANS standards, with no technical changes.
SANS 8430-3:1988/ ISO 8430-3:1988	*Resistance spot welding – Electrode holders – Part 3: Parallel shank fixing for end thrust. National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes. *ISO corrigendum No. 1.* Corrected to update referenced standards.
SANS 10228:2006 (SANS 10228:2003)	*The identification and classification of dangerous goods for transport.* Covers the identification and classification of dangerous substances and goods that are capable of posing a significant risk to health and safety or to property and the environment in the event of an incident during transport.
SANS 10235.2006 (SABS 0235 2001)	*Fibre-content labelling of textiles and textile products.* Specifies alternative methods for designating the fibre content of textiles and textile products and for applying this information to made-up products, piece-goods and yarns. Also specifies the methods to be used for determining the fibre content of textiles and textile products.
SANS 10360:2006 (Ed. 1.1)	*The maintenance and repair of electric and hydraulic powered lifts, escalators and passenger conveyors. Consolidated edition incorporating amendment No. 1.* Amended to delete reference to South African legislation in the body of the text, to delete the definitions for "competent maintenance person" and "contractor" and to replace them with definitions for "competent lift mechanic" and "competent lift service provider", respectively, to replace the terms "competent maintenance person" and "contractor" in the text with the terms "competent lift mechanic" and "competent lift service provider", respectively, and to delete the clause on registration (clause 9).
SANS 10377-1:2006 (Ed. 1.1)	*Pressure vessels for human occupancy – Part 1: Hyperbaric chambers (therapeutic). Consolidated edition incorporating amendment No. 1.* Amended to update referenced standards, and to clarify the use of a trade name.
SANS 10407:2006 (Ed. 1.1)	*Thatched roof construction. Consolidated edition incorporating amendment No. 1.* Amended to update the referenced standards, change the fire safety requirements and to add an annex on the installation of fibreglass ridging.

Standard No. and year	Title, scope and purport
SANS 18000-6:2006/ ISO/IEC 18000-6:2004	*Information technology – Radio frequency identification for item management – Parf 6: Parameters for air interface communications at 860 MHz to 960 MHz. ISO/IEC amendment No. 1.* Amended to cover the extension to type C to accommodate the latest development of passive RFID technology in the UHF frequency band from 860 MHz to 960 MHz, and to update changes to achieve an improved collision arbitration and a more robust protocol for types A and B.
SANS 20004:1997/ ECE R4:1997	*Uniform provisions concerning the approval of devices for the illumination of rear registration plates of motor vehicles (except motorcycles) and their trailers. ECE amendment No. 4.* Amended to add a definition for rear registration plate lamps of different types, to change the requirement for the application for approval, to add requirements for markings, to change requirements for general specifications, to add text on angle of incidence, to change requirements for the measuring procedure, to add a figure 3 on light source modules in the annex on arrangement of approval marks (annex 1), and to add entries in the annex on communication (annex 2).
SANS 20006:2003/ ECE R6:2001	*Uniform provisions concerning the approval of direction indicators for motor vehicles and their trailers. ECE amendment No. 2.* Amended to change a definition for direction indicators of different types, to change requirements for the application for approval, marking and test procedure, to add requirements for marking, to add a subclause on general specifications (5.3), to add entries in the annex on communication (annex 2), to add text on light source modules in the annex on arrangement of the approval mark (annex 3), and to change a limit in the annex on colour of amber lights: trichromatic co-ordinates (annex 5). *ECE corrigendum No. 1.* Corrected to add and delete text in the subclause on intensity of light emitted (6.1). *ECE amendment No. 3.* Amended to add text in a subclause on independent lamps (4.3.1) and to add a figure 4 on marking of independent lamps in the annex on arrangement of the approval mark (annex 3).
SANS 20011:1981/ ECE R11:1981	*Uniform provisions concerning the approval of vehicles with regard to door latches and door retention components. ECE corrigendum No. 1.* Amended to change a requirement for general specifications (5.1.2). *ECE amendment No. 1.* Amended to change a requirement for approval, and requirements for specifications (5.1.2), to change the title and to add text in the clause on modification and extension of approval of the vehicles type (clause 7), to change requirements in the annex on communication Concerning the approval (or refusal or withdrawal of approval or production definitely discontinued) of a vehicle type with regard to door latches and door retention components (annex 1), and a requirement in the annex on test procedure for door latches and door retention components (annex 3). *National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes, and to add information to the national foreword that relates to the compulsory application of the standard.
SANS 20012:1994/ ECE R12:1994	*Uniform provisions concerning the approval of vehicles with regard to the protection of the driver against the steering mechanism in the event of impact. ECE corrigendum No. 1.* Corrected to change the value of "1.111 daN" to read "1,111 daN" (5.2). *ECE amendment No. 1.* Amended to change definitions and to add requirements in the subclause on specifications (5.1.1). *ECE amendment No. 2.* Amended to change requirements for the application for approval, steering-control type (4.3.1) and transitional provisions (13.3). *ECE amendment No. 3.* Amended to change requirements for the application for approval, approval and specifications, to add requirements in the annexes on arrangements of approval marks (annex 2) and frontal-impact test against a barrier (annex 3), and to change requirements in the annex on body block test (annex 4). *National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes, and to add information to the national foreword that relates to the compulsory application of the standard.
SANS 20017:2004/ ECE R17:2002	*Uniform provisions concerning the approval of vehicles with regard to the seats, their anchorages and any head restraints. ECE corrigendum No. 2.* Changed to correct the requirements of a figure in the annex on details of lines and measurements taken during tests (annex 5).
SANS 20052:2004/ ECE R52:2003	*Uniform provisions concerning the approval of M_2 and M_3 small capacity vehicles with regard to their general construction. ECE amendment No. 1.* Amended to change requirements on specifications (5.6.10.9 and 5.7.8.1.3.2) and the requirements of figure 7 in the annex on explanatory diagrams (annex 3). *ECE amendment No. 2.* Amended to change requirements on specifications and requirements of figures in the annex on explanatory diagrams (annex 3). *ECE amendment No. 3.* Amended to change a requirement in the subclause on specifications (5.7.8.1).
SANS 20073:1988/ ECE R73:1988	*Uniform provisions concerning the approval of goods vehicles, trailers and semi-trailers with regard to their lateral protection. National amendment No. 1.* Amended to correct the edition number of the ECE regulation, and to change the designation from SABS to SANS, with no technical changes.
SANS 20076:1988/ ECE R76:1988	*Uniform provisions concerning the approval of headlamps for mopeds emitting a driving beam and a passing beam. National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes, and to add information to the national foreword that relates to the compulsory application of the standard.
SANS 20082:1989/ ECE R82:1989	*Uniform provisions concerning the approval of moped headlamps equipped with filament halogen lamps (HS_2 lamps). National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes, and to add information to the national foreword that relates to the compulsory application of the standard.
SANS 20089:2006/ ECE R89:1993	*Uniform prescripfions for approval of: I Vehicles with regard to limitation of their maximum speed or their adjustable speed limitation function II Vehicles with regard to the installation of a speed limiting device (SLD) or adjustable speed limitation device (ASLD) of an approved type III Speed limitation devices (SLD) and adjustable speed limitation device (ASLD). ECE amendment No. 1.* Amended to change the title and the scope, to add definitions for adjustable limit speed Vadj, adjustable speed limitation function ASLF and speed limitation function, to change and to add requirements in the clauses on requirements of part I (clause 5), part II (clause 13) and part III (clause 21), to change additional information on numbers assigned to countries for rectification purposes (footnote 3 to 4.4.1, 12.4.1 and 20.4.1), to replace terms in the annexes on communication, (annexes 1, 2 and 3), and to add an annex on tests and performance requirements for adjustable speed limitation devices (ASLD) (annex 6).
SANS 20112:2003/ ECE R112:2001	*Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both equipped with filament lamps. ECE amendment No. 4.* Amended to change the requirements for illumination (clause 6). *National amendment No. 2.* Amended to correct the edition number of the ECE regulation.

Standard No. and year	Title, scope and purport
SANS 51021-1:2006/ EN 1021-1:2006 (SABS EN 1021-1:1993)	*Furniture – Assessment of the ignitability of upholstered furniture – Part 1: Ignition source smouldering cigarette.* Lays down a test method to assess the ignitability of material combinations, such as covers and fillings used in upholstered seating, when subjected to a smouldering cigarette as an ignition source. The test measures only the ignitability of a combination of materials used in upholstered seating and not the ignitability of a particular finished item of furniture incorporating these materials. They give an indication of, but cannot guarantee, the ignition behaviour of the finished item of furniture.
SANS 51021-2:2006/ EN 1021-2:2006	*Furniture – Assessment of the ignitability of upholstered furniture – Part 2: Ignition source matchflame equivalent.* Lays down a test method to assess the ignitability of material combinations, such as covers and fillings used in upholstered seating, when subjected to a small flame as an ignition source. The test measures only the ignitability of a combination of materials used in upholstered seating and not the ignitability of a particular finished item of furniture incorporating these materials. They give an indication of, but cannot guarantee, the ignition behaviour of the finished item of furniture.
SANS 60079-12: 19781 IEC 60079-12:1978	*Electrical apparatus for explosive gas atmospheres – Part 12: Classification of mixtures of gases or vapours with air according to their maximum experimental safe gaps and minimum igniting currents. National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes.
SANS 60079-13:1982/ IEC 60079-13:1982	*Electrical apparatus for explosive gas atmospheres – Part 13: Construction and use of rooms or buildings protected by pressurization. National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes.
SANS 60079-16:19901 IEC 60079-16:1990	*Electrical apparatus for explosive gas atmospheres – Part 16: Artificial ventilation for the protection of analyzer(s) houses National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes.
SANS 60079-20:19961 IEC 60079-20:1996	*Electrical apparatus for explosive gas atmospheres – Part 20: Data for flammable gases and vapours relating to the use of electrical apparatus. National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical chanees.
SANS 60204-1:2006/ IEC 60204-1:2005 (SABS IEC 60204-1:1997)	*Safety of machinery – Electrical equipment of machines – Part 1: General requirements.* Applies to the application of electrical, electronic and programmable electronic equipment and systems to machines not portable by hand while working, including a group of machines working together in a co-ordinated manner.
SANS 60317-0-1:2006/ IEC 60317-0-1:2005 (Ed. 2.2)	*Specifications for particular types of winding wires – Part 0-1: General requirements – Enamelled round copper wire. IEC amendment No. 2.* Amended to change the introduction, to update normative references, to add definitions, requirements for appearance and a pinhole test, to change requirements for the calculation of dimensions, electrical resistance, elongation, springiness, breakdown voltage and linear resistance, and to delete the high temperature failure test.
SANS 60335-2-14:2006/ IEC 60335-2-14:2006 (SANS 60335-2-14:2003)	*Household and similar electrical appliances – Safety – Part 2-14: Particular requirements for kitchen machines. Deals* with the safety of electric kitchen machines for household and similar purposes, their rated voltage being not more than 250 V. Examples of these appliances are blenders, food mixers, food processors, mincers, etc.
SANS 60350:2006/ IEC 60350.2005 (Ed. 1.1)	*Electric cooking ranges. hobs, ovens and grills for household use – Methods for measuring performance. Consolidated edition incorporating IEC amendment No. 1.* Amended to add a note to the scope, to add a normative reference and definitions, to add to the list of tests done on ovens, to change requirements for general conditions for measurements and for the determination of the heat performance of hobs and ovens, to update the figures, and to add annex D that contains a description of the test brick and annex E that gives a calculation sheet for the energy consumption of electric ovens.
SANS 60496:1975/ IEC 60496:1975	*Methods for measuring the performance of electric warming plates for household and similar purposes. National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes.
SANS 60530:1975/ IEC 60530:1975	*Methods for measuring the performance of electric kettles and jugs for household and similar use. IEC amendment No. 2.* Amended to include requirements for clean pouring and to renumber clauses. *National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes.
SANS 60974-7:2006/ IEC 60974-7:2005 (SABS IEC 60974-7:2000)	*Arc welding equipment – Part 7: Torches.* Specifies safety and construction requirements for torches for arc welding and allied processes.
SANS 61241-2-1:1994/ IEC 61241-2-1:1994	*Electrical apparatus for use in the presence of combustible dust – Part 2: Test methods – Section 1: Methods for determining the minimum ignition temperatures of dust. National amendment No. 1.* Amended to change the designation from SABS to SANS, with no technical changes.

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 400 A:2000	*Diesel engine lubricating oil (for API Service Category CD)*
SANS 1361:2000	*Engine lubricating oil for petrol engines for API Service Category SF) and for light duty diesel engines for API Service Category CC)*
SANS 5324:1972	*Unevenness of textile yarns*
SANS 6520:1982	*Classification of imperfections in metallic fusion welds, with explanations*

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.