

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

No. 853

2 September 2005

**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 1201:2005	<i>The application of rubber linings to pipes, pipe fittings and vessels.</i> Covers the application of rubber lining to pipes, pipe fittings and other vessels, and specifies requirements for pipes, pipe fittings and vessels that can be accepted for lining.
SANS 2446:2005/ ISO 2446:1976	<i>Milk - Determination of fat content (Routine method).</i> Specifies a routine method (the Gerber method) for the determination of the fat content of milk and includes guidance on the determination of the appropriate capacity of the milk pipette and on the determination of the corrections to apply to the results if the milk is not of average fat content. The method is applicable to liquid milk, whole or partially skimmed, raw or pasteurized. With modifications, details of which are given, it is also applicable to milk containing certain preservatives, milk that has undergone the process of homogenization, in particular sterilized milk and ultra heat treated (UHT) milk and skimmed milk.
SANS 8826-1:2005/ ISO 8826-1:1989	<i>Technical drawings - Rolling bearings - Part 1: General simplified representation.</i> Specifies the general simplified representation for rolling bearings.
SANS 10378:2005	<i>General requirements for the competence of verification laboratories in terms of the Trade Metrology Act.</i> This standard specifies the general requirements for the competence of laboratories to carry out the verification of measuring instruments.
SANS 11601:2005	<i>Wheeled fire extinguishers - Performance and construction.</i> Specifies the construction and performance requirements intended at ensuring the safety, reliability and performance of wheeled (mobile) fire extinguishers.
SANS 60044-5:2005/ IEC 60044-5:2004	<i>Instrument transformers - Part 5: Capacitor voltage transformers.</i> Applies to new single-phase capacitor voltage transformers connected between line and ground for system voltages $U_m = 725$ kV at power frequencies from 15 Hz to 100 Hz. They are intended to supply a low voltage for measurement, control and protective functions.
SANS 60076-11:2005/ IEC 60076-11:2004	<i>Power transformers - Part 11: Dry-type transformers.</i> Applies to dry-type power transformers (including auto-transformers) having values of highest voltage for equipment up to and including 36 kV and at least one winding operating at greater than 1,1 kV.
SANS 60335-2-105:2005/ IEC 60335-2-105:2004	<i>Household and similar electrical appliances - Safety - Part 2-105: Particular requirements for multifunctional shower cabinets.</i> Deals with the safety of electric multifunctional shower cabinets for household and similar purposes, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances.
SANS 60849:2005/ IEC 60849:1998	<i>Sound systems for emergency purposes.</i> Specifies the requirements for sound systems to be used for the mobilization of people in an emergency situation.
SANS 61386-24:2005/ IEC 61386-24:2004	<i>Conduit systems for cable management - Part 24: Particular requirements - Conduit systems buried underground.</i> Specifies requirements and tests for conduit systems buried underground including conduits and conduit fittings for the protection and management of insulated conductors and/or cables in electrical installations or in communication systems. This standard applies to metallic, non-metallic and composite systems including threaded and non-threaded entries which terminate the system.
SANS 61800-4:2005/ IEC 61800-4:2002	<i>Adjustable speed electrical power drive systems - Part 4: General requirements - Rating specifications for a.c. power drive systems above 1 000 V a.c. and not exceeding 35 kV.</i> Applies to adjustable speed a.c. drive systems including power conversion and control equipment. Covers rating specification for power drive systems above 1 kV up to 35 kV. Does not apply to traction for railway applications or electrical vehicle drives.
SANS 61800-5-1:2005/ IEC 61800-5-1:2003	<i>Adjustable speed electrical power drive system - Part 5-1: Safety requirements - Electrical, thermal and energy.</i> Applies to adjustable speed electric drive systems, including power conversion, drive control and motors, and covers electrical, thermal and energy safety. Applies to d.c. drive systems connected to 1 kV a.c. and a.c. drive systems with converter input up to 35 kV. Does not cover traction and electrical vehicle drives.

Standard No. and year	Title, scope and purport
SANS 61960:2005/ IEC 61960:2003	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications. Specifies performance tests, designations, markings, dimensions and other requirements for secondary lithium single cells and batteries for portable applications.
SANS 300 086-1:2005/ ETSI EN 300 086-1:2001	Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech – Part 1: Technical characteristics and methods of measurement. Covers the minimum characteristics considered necessary in order to avoid harmful interference and to make acceptable use of the available frequencies. It does not necessarily include all the characteristics which may be required by a user, nor does it necessarily represent the optimum performance achievable. Applies to angle modulation systems for use in the land mobile service, operating on radio frequencies between 30 MHz and 1 000 MHz, with channel separations of 12,5 kHz, 20 kHz and 25 kHz, and is intended primarily for analogue speech. Different requirements are given for the different radio frequency bands, channel separations, environmental conditions and types of equipment, where appropriate. Does not cover hand portable equipment without an external or internal RF connector and without the possibility of having a temporary internal 50 Ω RF connector.

SCHEDULE 2: AMENDMENT OF EXISTING STANDARDS

The standards mentioned have been amended in terms of section 16(3) of the Act. The number and date of a standard that has been superseded appear in brackets below the new number. In the case of an amendment issued in consolidated format, the edition number of the new (consolidated) edition appears in brackets below the number of the standard.

Standard No. and year	Title, scope and purport
SANS 111-1:1981/ ISO 835-1:1981	Laboratory glassware – Graduated pipettes – Part 1: General requirements. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 111-2:1981/ ISO 835-2:1981	Laboratory glassware – Graduated pipettes – Part 2: Pipettes for which no waiting time is specified. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 111-3:1981/ ISO 835-3:1981	Laboratory glassware – Graduated pipettes – Part 3: Pipettes for which a waiting time of 15 s is specified. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 111-4:1981/ ISO 8354:1981	Laboratory glassware – Graduated pipettes – Part 4: Blow-out pipette. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 113:1976/ ISO 383:1976	Laboratory glassware – Interchangeable conical ground joints. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 115-1:1984/ ISO 385-1:1984	Laboratory glassware – Burettes – Part 1: General requirements. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 115-2:1984/ ISO 385-2:1984	Laboratory glassware – Burettes – Part 2: Burettes for which no waiting time is specified. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 115-3:1984/ ISO 385-3:1984	Laboratory glassware – Burettes – Part 3: Burettes for which a waiting time of 30 s is specified. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 1067-1:2005 (Ed. 2.1)	Copper-based fittings for copper tube – Part 1: Compression fittings. Consolidated edition incorporating amendment No. 1. Amended to change the designation of SABS standards to SANS standards, to delete reference to the certification mark, to update referenced standards and to correct a reference in annex A on notes to purchasers.
SANS 1452:2005 (Ed. 1.1)	Overhead projectors. Consolidated edition incorporating amendment No. 1. Amended to update referenced standards, to change the definition of "acceptable" and to delete the reference to the SABS certification scheme.
SANS 1475-1:2005 (Ed. 3.2)	The production of reconditioned fire-fighting equipment – Part 1: Portable and wheeled (mobile) rechargeable fire extinguishers. Consolidated edition incorporating amendment No. 2. Amended to update the definition of registered competent person, to change the requirement for foam extinguishers and for the frequency of pressure testing, to remove requirements for the service life of extinguishers and to include reference to the wheeled fire extinguishers in the procedures for maintenance (annex C), extended maintenance procedures (annex D), and intervals for maintenance (annex F).
SANS 1556-2:2005 (Ed. 1.1)	ISO metric screw threads – Part 2: Selected limits of size for general purpose screw threads. Consolidated edition incorporating amendment No. 1. Amended to change the designation of SABS standards to SANS standards and to update referenced standards.
SANS 1613:2005 (Ed. 1.4)	Warp-knitted terry towelling fabric and articles. Consolidated edition incorporating amendment No. 3. Amended to update referenced standards, to replace the requirement for the overall fibre composition and for the number of courses per 10 cm of types DK 270, DK 340 and DK 400, and to adjust the breaking strength requirement in the wale direction of type DK 270.
SANS 4778:1981/ ISO 4778:1981	Chain slings of welded construction – Grades M(4), S(6) and T(8). National amendment No. 2. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 4787:1984/ ISO 4787:1984	Laboratory glassware – Volumetric glassware – Methods for use and testing of capacity. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.
SANS 4788:1980/ ISO 4788:1980	Laboratory glassware – Graduated measuring cylinders. National amendment No. 1. Amended to change the designation from SABS to SANS, with no technical changes.

Standard No. and year	Title, scope and purport
SANS 5259:2005 (SABS SM 259 1976)	<i>Test for buoyancy of life-jackets.</i> Specifies a method of test for the buoyancy of life-jackets.
SANS 5312:2005 (SABSSM 3121964)	<i>Number of interlacing threads in a braid.</i> Specifies method for the determination of the number of interlacing threads in a hid .
SANS 5316:2005 (SABS SM 316 1972)	<i>Abrasion resistance of textile shoe laces (without core) and similar articles.</i> Specifies a method for the determination of the abrasion resistance of textile shoe laces (without core) and similar articles.
SANS 5417:2005 (SABSSM 4171972)	<i>Density of foamed plastic fillers for life jackets.</i> Specifies a method for the determination of the density of foamed plastic fillers for life jackets.
SANS 6116:2005 (SABSSM 11161988)	<i>Resistance of textile fabrics to pilling and fuzzing (Random tumble method).</i> Specifies the random tumble method for the determination of the resistance of textile fabrics to pilling and fuzzing.
SANS 7253:1996/ ISO 7253:1996	
SANS 7531:1987/ BO 7531:1987	<i>Wire rope slings for general purposes – Characteristics and specifications.</i> National Amendment No. 3. Amended to change the designation from SABS to SANS , with no technical changes.
SANS 10005:2005 (SABS 05:1999)	<i>The preservative treatment of timber.</i> Covers the classification of timber preservatives, hazard conditions for timber , solvents used for timber preservatives, the preparation of timber for treatment, the various treatment processes and the use of preservative-treated timber in specific areas in South Africa. Recommendations relating to the handling and safety of preservative-treated timber are also given.
SANS 10238:2005 (Ed 1.3)	<i>Welding and thermal cutting processes – Health and safety.</i> Consolidated edition incorporating amendment No. 3. Amended to update referenced standards and other publications, to insert a table on "threshold limit values for welding fume constituents", to change the numbering of two subclauses in clause 10 and to remove the introductory paragraph of annex A.
SANS 10256:2005 (Ed. 1.1)	<i>Brake drum reconditioning.</i> Consolidated edition incorporating amendment No. 1. Amended to change the designation from SABS to SANS , to delete reference to the SABS as the certification body, and to change the statutory requirements for the workshop environment .
SANS 10278:2005 (Ed. 1.1)	<i>The remanufacture of petrol engines.</i> Consolidated edition incorporating amendment No. 1. Amended to add a definition for inspectorate authority, replace the reference to SABS inspectors with inspectorate authority, and delete the requirements relating to accreditation.
SANS 10310:2005 (Ed 1.1)	<i>The manufacture and reconditioning of replacement brake lining assemblies.</i> Consolidated edition incorporating amendment No. 1. Amended to change the designation of SABS standards to SANS standards , and to delete the requirements for registration .
SANS 10313:2005 (SABS 0313:1999)	<i>The protection of structures against lightning.</i> Sets out the principles of lightning protection of structures , both internal and external , and covers the installation of a lightning protection system for free-standing structures of height up to 60 m. Covers buildings with explosive or flammable substances, but does not apply to railway, electricity distribution or telecommunication systems external to the structure , or to offshore installations. Makes provision for a Certificate of Compliance.
SANS 11446:2005/ BO 11446:2004 (SABS ISO 11446:1995)	<i>Road vehicles – Connectors for the electrical connection of towing and towed vehicles – 13-pole connectors for vehicles with 12 V nominal supply voltage.</i> Specifies the dimensional characteristics, contact allocations and test requirements for 13-pole connectors for the electrical connection of towing and towed vehicles with 12 V nominal supply voltage. It also specifies a park socket for receiving and storing the plug when it is disconnected.
SANS 12098:2005/ ISO 12098:2004 (SABS ISO 12098:1994)	<i>Road vehicles – Connectors for the electrical connection of towing and towed vehicles – 15-pole connector for vehicles with 24 V nominal supply voltage.</i> Specifies the dimensions, the contact allocation and test requirements for 15-pole connectors for the electrical connection of equipment other than braking systems and running gear of towing and towed vehicles with 24 V nominal supply voltage. It also specifies a park socket used to receive and store the plug when disconnected, and a means of adaptation between 7-pole and 15-pole connectors.
SANS 12944-3:1998/ ISO 12944-3:1998	<i>Paints and varnishes – Corrosion protection of steel structures by protective paint systems – Part 3: Design considerations.</i> National amendment No. 1. Amended to change the designation from SABS standards to SANS , with no technical changes.
SANS 12944-6:1998/ ISO 12944-6:1998	<i>Paints and varnishes – Corrosion protection of steel structures by protective paint system – Part 6: Laboratory performance test methods.</i> National amendment No. 1. Amended to change the designation from SABS standards to SANS , with no technical changes.
SANS 60099-4:2005/ IEC 60099-4:2004 (SABS IEC 60099-4:2003)	<i>Surge arresters – Part 4: Metal-oxide surge arresters without gaps for a.c. system.</i> Applies to non-linear metal-oxide resistor type surge arresters without spark gaps designed to limit voltage surges on ac. power circuits.
SANS 61211:2005/ IEC 61211:2004 (SABS IEC 61211:1994)	<i>Insulators of ceramic material or glass for overhead lines with a nominal voltage greater than 1 000 V – Impulse puncture testing in air.</i> Covers impulse puncture testing in air of ceramic and glass insulator units of class B cap and pin, pin type (including pin-past type) and class B long rod insulators
SANS 61800-5-1:2005/ IEC 61800-5-1:2003	<i>Adjustable speed electrical power drive system – Part 5-1: Safety requirements – Electrical, thermal and energy.</i> IEC technical corrigendum No. 1. Changed to correct figure C.13

Standard No. and year	Title, scope and purport
SANS 300 086-1:2005/ ETSI EN 300 086-1:2001	Electromagnetic compatibility and Radiospectrum Matters (ERM); Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech - Part 1: Technical characteristics and methods of measurement. National amendment No 1. Amended to add to the national foreword for application in South Africa, qualified definitions for 'base station' and 'mobile station', and the definition for 'communal radio site' from SANS 10262-1.

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 815:1978	Shouldered-end pipes and fittings, and couplings
SANS 908:1968	Meter cabinets
SANS 1391-1:1983	Thermally sprayed metal coatings - Part 1: Zinc and aluminium coatings for the protection of iron and steel against atmospheric corrosion
SANS 1391-2:1983	Thermally sprayed metal coatings - Part 2: Aluminium and nickel-chromium alloy coatings for the protection of iron and steel against oxidation and corrosion at elevated temperatures
SANS 1391-3:1983	Thermally sprayed metal coatings - Part 3: Coatings for decorative purposes
SANS 1571:1992	Transportable rechargeable fire extinguishers
SANS 1669:1996	Conveyor belt pulleys
SANS 1701-2-27:1996	Bearings - Part 2: Rolling bearings - Section 27: Needle rollers - Tolerances
SANS 1701-2-33:1996	Bearings - Part 2: Rolling bearings - Section 33: Metric tapered roller bearings - Designation system
SANS 1701-3-9:1996	Bearings - Part 3: Plain bearings - Section 9: Spherical plain radial bearings, joint type - Boundary dimensions - Dimension series E and G
SANS 1701-3-10:1996	Bearings - Part 3: Plain bearings - Section 10: Spherical plain radial bearings, joint type - Boundary dimensions - Dimension series EW, bearings with extended inner ring
SANS 1701-3-11:1996	Bearings - Part 3: Plain bearings - Section 11: Spherical plain radial bearings, joint type - Boundary dimensions - Dimension series C
SANS 1701-3-12:1996	Bearings - Part 3: Plain bearings - Section 12: Spherical plain radial bearings, joint type - Tolerances
SANS 1701-3-13:1996	Bearings - Part 3: Plain bearings - Section 13: Spherical plain radial bearing rod ends - Dimension series E and JK - Boundary dimensions and tolerances
SANS 1701-3-21:1996	Bearings - Part 3: Plain bearings - Section 21: Thin-walled flanged half bearings - Dimensions, tolerances and methods of checking
SANS 1701-3-22:1996	Bearings - Part 3: Plain bearings - Section 22: Measurement of wall thickness of kin-walled half bearings and thin-walled bushes
SANS 1701-5-8:1997	Bearings - Part 5: Pedestal bearings and structural bearings - Section 8: General principles on reliability for structures
SANS 1701-7-2:1997	Bearings - Part 7: Testing of the tribological behaviour of bearings and bearing materials - Section 2: Plain bearings - Testing of the tribological behaviour of plastics
SANS 1701-7-5:1997	Bearings - Part 7: Testing of the tribological behaviour of bearings and bearing materials - Section 5: Plain bearings - Evaluation of the tribological properties of polymer based material
SANS 1701-7-6:1997	Bearings - Part 7: Testing of the tribological behaviour of bearings and bearing material - Section 6: Plain bearings - Testing of the tribological behaviour of bearing materials for oil lubrication application - Running-in under mixed lubrication conditions
SANS 10057:1975	Bending and wrapping tests on metallic material
SANS 10303:1998	The design, safe use and maintenance of scissor lifts
SANS 10353:2003	Small arms shooting ranges
SANS 60233:1974	Tests on hollow insulators for use in electrical equipment
SANS 61264:1998	Ceramic pressurized hollow insulators for high-voltage switchgear and control gear

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.