

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

No. 725

6 June 2003

**STANDARDS ACT, 1993
STANDARDS MATTERS**

In terms of the Standards Act, 1993 (Act 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 16:2003/ ISO/IEC 10116:1997	<i>Information technology – Security techniques – Modes of operation for an n-bit block cipher.</i> Describes four modes of operation for an n-bit block cipher.
SANS 18-1:2003/ ISO/IEC 10118-1:2000	<i>Information technology – Security techniques – Hash-functions – Part 1: General.</i> Specifies hash-functions and is therefore applicable to the provision of authentication, integrity and non-repudiation services. Hash-functions map arbitrary strings of bits to a fixed-length strings of bits, using a specified algorithm. Contains definitions, symbols, abbreviations and requirements, that are common to all the other parts of ISO/IEC 10118.
SANS 18-2:2003 ISO/IEC 10118-2:2000	<i>Information technology – Security techniques – Hash-functions – Part 2: Hash-functions using an n-bit block cipher.</i> Specifies hash-functions which make use of an n-bit block cipher algorithm. They are therefore suitable for an environment in which such an algorithm is already implemented. Four hash-functions are specified. The first provides hash-codes of length smaller than or equal to n , where n is the block-length of the algorithm used. The second provides hash-codes of length less than or equal to $2n$; the third provides hash-codes of length equal to $2n$; and the fourth provides hash-codes of length $3n$.
SANS 18-4:2003/ ISO/IEC 10118-4:1998	<i>Information technology – Security techniques – Hash-functions – Part 4: Hash-functions using modular arithmetic.</i> Specifies two hash-functions which make use of modular arithmetic. These hash-functions, which are believed to be collision-resistant, compress messages of arbitrary but limited length to a hash-code whose length is determined by the length of the prime number used in the reduction-function. Thus, the hash-code is easily scaled to the input length of any mechanism (e.g. signature algorithm, identification scheme).
SANS 54:2003/ ISO 188:1998	<i>Rubber, vulcanized or thermoplastic – Accelerated ageing and heat resistance tests.</i> Specifies accelerated ageing or heat resistance tests on vulcanized or thermoplastic rubbers.
SANS 471:2003/ ISO 471:1995	<i>Rubber – Temperatures, humidities and times for conditioning and testing.</i> Specifies the temperature, humidity and time conditions used for the conditioning and testing of all types of rubber test piece. Also specifies the requirements for the time-interval to be observed between forming and testing of rubber test pieces and products.
SANS 1132:2003/ ISO 132:1999	<i>Rubber, vulcanized or thermoplastic – Determination of flex cracking and crack growth (De Mattia).</i> Specifies a method of test intended for use in comparing the resistance of rubbers to the formation and growth of cracks, when subjected to repeated flexing on the De Mattia type machine. For determination of crack growth, an artificial cut is made in the test piece to initiate cut growth.
SANS 1726-2:2003/ EN 1726-2:2000	<i>Safety of industrial trucks – Self-propelled trucks up to and including 10 000 kg capacity and tractors with a drawbar pull up to and including 20 000 N – Part 2: Additional requirements for trucks with elevating operator position and trucks specifically designed to travel with elevated loads.</i> Is applicable, in addition to EN 1726-1, to industrial trucks designed to travel indoors on smooth level prepared surfaces and equipped with vertical, non-tilting mast.
SANS 4591:2003/ ISO 4591:1992	<i>Plastics – Film and sheeting – Determination of average thickness of a sample, and average thickness and yield of a roll, by gravimetric techniques (gravimetric thickness).</i> Specifies a method for the determination of the gravimetric thickness of a sample of plastics film or sheeting and a method for the determination of the average gravimetric thickness and, if required, the yield (area per unit mass) of a roll of plastics film or sheeting.
SANS 6315:2003	<i>Water quality – Detection and enumeration of Vibrio cholerae.</i> Specifies a method for the detection and enumeration of <i>Vibrio cholerae</i> in water.
SANS 6317:2003	<i>Methods of chemical analysis of meat and fish products.</i> Specifies methods for the chemical analysis of meat and fish products.
SANS 6508-1:2003/ ISO 6508-1:1999	<i>Metallic materials – Rockwell hardness test – Part 1: Test methods (scales A,B,C,D,E,F,G,H,K,N,T).</i> Specifies a method for Rockwell and Rockwell superficial hardness tests for metallic materials.

Standard No. and year	Title, scope and purport
SANS 6508-2:2003/ ISO 6508-2:1999	<i>Metallic materials – Rockwell hardness test – Part 2: Verification and calibration of testing machines (scales A,B,C,D,E,F,G,H,K,N,T).</i> Specifies a method of verification of testing machines for determining Rockwell hardness.
SANS 6508-3:2003/ ISO 6508-3:1999	<i>Metallic materials – Rockwell hardness test – Part 3: Calibration of reference blocks (scales A,B,C,D,E,F,G,H,K,N,T).</i> Specifies a method for the calibration of reference blocks to be used for the indirect verification of Rockwell hardness testing machines.
SANS 10397:2003	<i>Environmental considerations for the planning and management of telecommunication structures.</i> Provides overall guidelines for the environmental site selection process for telecommunication structures. These guidelines consider the initial site selection process, with an emphasis on minimizing environmental impact by choosing the most environmentally acceptable site from the outset. The ultimate aim is therefore to assist applicants of telecommunication structures to speed up the environmental impact assessment authorization process for these sites, whilst maintaining high environmental standards.
SANS 10834:2003/ ISO 10834:1992	<i>Textile floor coverings – Non-destructive measurement of pile thickness above the backing – WRONZ gauge method.</i> Specifies a method for the measurement of the thickness of pile above the backing of a textile floor covering and is applicable to all textile floor coverings having a pile of cut or looped yarn. Where areas of different construction or thickness exist, these should be tested separately if possible. This method is non-destructive of the floor covering specimen and is useful particularly for production control in manufacture and for measurements on installed carpets.
SANS 11377:2003/ ISO 11377:1997	<i>Textile floor coverings – Floor soiling – Test site set-up and soiling evaluation.</i> Specifies the procedure for setting up a test site for textile floor coverings and the procedure for evaluation of levels of soiling as measured by colour change.
SANS 11379:2003/ ISO 11379:1997	<i>Textile floor coverings – Laboratory cleaning procedure using spray extraction.</i> Describes a laboratory-scale carpet cleaning procedure using a spray extraction technique.
SANS 14888-1:2003/ ISO/IEC 14888-1:1998	<i>Information technology – Security techniques – Digital signatures with appendix – Part 1: General.</i> Specifies several digital signature mechanisms with appendix for messages of arbitrary length. Contains principles and requirements for digital signatures with appendix. Also contains definitions and symbols common to all parts of ISO/IEC 14888.
SANS 14888-2:2003/ ISO/IEC 14888-2:1999	<i>Information technology – Security techniques – Digital signatures with appendix – Part 2: Identity-based mechanisms.</i> Specifies a variety of digital signature mechanisms with appendix for messages of arbitrary length and is applicable in schemes providing entity authentication, data origin authentication, non-repudiation, and integrity of data. Specifies the general structure and the fundamental procedures which constitute the signature and verification processes of an identity-based digital signature mechanism with appendix for messages of arbitrary length.
SANS 14888-3:2003/ ISO/IEC 14888-3:1998	<i>Information technology – Security techniques – Digital signatures with appendix – Part 3: Certificate-based mechanisms.</i> Specifies digital signature mechanisms with appendix for messages of arbitrary length and is applicable for providing data origin authentication, non-repudiation, and integrity of data.
SANS 19113:2003/ ISO 19113:2002	<i>Geographic information – Quality principles.</i> Establishes the principles for describing the quality of geographic data and specifies components for reporting quality information. Also provides an approach to organizing information about data quality.
SANS 20055:2003/ ECE R55:2001	<i>Uniform provisions concerning the approval of mechanical coupling components of combinations of vehicles.</i> Lays down the requirements which mechanical coupling devices and components shall meet in order to be regarded internationally as being mutually compatible.
SANS 20112:2003/ ECE R112:2001	<i>Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps.</i> Applies to motor vehicle headlamps emitting an asymmetrical passing beam and/or driving beam, which may incorporate lenses of glass or plastic material and which are equipped with replaceable filament lamps.
SANS 60317:100:2003	<i>Specifications for particular types of winding wires – Part 100: Enamelled round copper wire, class 220.</i> Specifies the requirements for enamelled round copper winding wire of class 220 with a single coating of polyimide-based enamel, a single coating of polyesterimide-based enamel, and a double coating that consists of a polyesterimide-based first coating plus a polyamide imide top coating.
SANS 60950-1:2003/ IEC 60950-1:2001	<i>Information technology equipment – Safety – Part 1: General requirements.</i> Applicable to mains-powered or battery-powered information technology equipment, including electrical business equipment and associated equipment, with a rated voltage not exceeding 600 V.
SANS 62086-1:2003/ IEC 62086-1:2001	<i>Electrical apparatus for explosive gas atmospheres – Electrical resistance trace heating – Part 1: General and testing requirements.</i> Specifies general and testing requirements for electrical resistance trace heaters for application in explosive gas atmospheres.
SANS 62086-2:2003/ IEC 62086-2:2001	<i>Electrical apparatus for explosive gas atmospheres – Electrical resistance trace heating – Part 2: Application guide for design, installation and maintenance.</i> Provides guidance for the application of electrical resistance trace-heating systems in areas where explosive gas atmospheres may be present.
SANS 62151:2003/ IEC 62151:2000	<i>Safety of equipment electrically connected to a telecommunication network.</i> Is applicable to equipment designed and intended to be connected directly to a telecommunication network, regardless of the source of power. Is intended for the enhancement of product safety standards so as to cover hazards associated only with connection of equipment to a telecommunication network.

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 62-1:2003 (Ed. 3.1)	<i>Steel pipes – Part 1: Pipes suitable for threading and of nominal size not exceeding 150 mm. Consolidated edition incorporating amendment No. 1.</i> Amended to clarify the requirements for welded pipe, to amplify two titles, to re-arrange the sequence in a test procedure, to include a minimum leak tightness test, and to reduce the time to test a pipe.
SANS 232:2003 (Ed. 3.2)	<i>Detergent for industrial dishwashing equipment. Consolidated edition incorporating amendment No. 2.</i> Amended to update the definition of "acceptable", to update the test method for the effect on corrosion-resistant steel, to correct an equation, and to update referenced standards.
SANS 242:2003 (SABS 242:1973)	<i>Stainless steel sinks with draining boards (for domestic use).</i> Covers material, dimensional, and constructional requirements for stainless steel sinks with draining boards for domestic use.
SANS 953-2:2003 (Ed. 1.1)	<i>Storage of firearms and ammunition – Part 2: Strongrooms. Consolidated edition incorporating amendment No. 1.</i> Amended to update a referenced standard to align this part of SANS 953 with the international standard.
SANS 971:2003 (SABS 971:1980)	<i>Fire-retardant textile-reinforced conveyor belting (for use in fiery mines).</i> Covers general requirements for fire-retardant textile-reinforced conveyor belting designed for use on flat or troughed idlers. The belting is classified according to the minimum longitudinal full-thickness breaking strength of the finished belting in kilonewtons per metre (kN/m).
SANS 1033:2003 (Ed. 1.3)	<i>Solid filler wire for the submerged arc welding of mild steel and medium high tensile steel (metric units). Consolidated edition incorporating amendment No. 3.</i> Amended to update the normative references in the foreword and appendix A.
SANS 1055:2003 (SANS 1055:1983)	<i>Motor vehicle safety: Rear underrun protection devices.</i> Covers requirements for rear underrun protection devices and their installation on category M, N and O vehicles having a gross vehicle mass (GVM) exceeding 3 500 kg and intended for use on public roads.
SANS 1088:2003 (Ed. 1.1)	<i>Luminaire entries and spigots. Consolidated edition incorporating amendment No. 1.</i> Amended to add a requirement for an electrodeposited coating of zinc and an ISO metric size 8 grub screw to the locking device, to delete references to ISO R7 and ISO R861, to replace SABS 763 with SANS 121 and to replace SABS 62 with SANS 62-1.
SANS 1118-1:2003 (Ed. 3.2)	<i>School clothing – Part 1: General requirements for school clothing. Consolidated edition incorporating amendment No. 2.</i> Amended to list SANS 1822 (SABS 1822) and SANS 10235 (SABS 0235) as normative references, to update the definition of "acceptable", to delete the footnote to table 1 (which deals with guidance regarding the selection of outer materials), to change the requirement for elastic braid or webbing, to add a requirement for the marking of garments, and to delete reference to SABS ISO 9002.
SANS 1194:2003 (Ed. 1.2)	<i>Coiled nylon tubing for air-brake applications. Consolidated edition incorporating amendment No. 2.</i> Amended to include additional tube sizes.
SANS 1437:2003 (SANS 1437:1987)	<i>Footwear soling material and footwear sole and heel components of rubber and plastics.</i> Covers the physical and performance requirements and test methods for rubber and plastics materials suitable for use in the manufacture of footwear soling materials and footwear soling components including outsoles, midsoles, heel top-pieces, full rubber heels integral with the top-piece and pre-moulded outer sole and heel units.
SANS 1535:2003 (Ed. 2.1)	<i>Glass-reinforced polyester-coated steel tanks for the underground storage of hydrocarbons and oxygenated solvents and intended for burial horizontally. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards to align them with national and international standards, to change the definition for "acceptable", and to change the numbering of the Bibliography.
SANS 1599-1:2003 (Ed. 1.1)	<i>Cranes – Part 1: Cantilever/Slewing jib cranes. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards.
SANS 1657:2003 (Ed. 1.3)	<i>Bottled natural water. Consolidated edition incorporating amendment No. 3.</i> Amended to replace the definition for "acceptable", to bring this standard in line with the requirements in the Foodstuffs, Cosmetics and Disinfectants Act, 1972 (Act 54 of 1972), to update references to the SABS, and to update reference standards to align with international standards.
SANS 1783-2:1997	<i>Sawn softwood timber – Part 2: Stress-graded structural timber and timber for frame-wall construction. Amendment No. 3.</i> Amended to change the requirements for the size of marking and for grade identification.
SANS 6282-2:2002 (Ed. 1.1)	<i>Test methods for bare conductors and conductors of insulated electric cables – Part 2: Quality of metallic coatings. Consolidated edition incorporating amendment No. 1.</i> Amended to add "bare conductors" to the title.
SANS 10086-1:2003 (Ed. 3.3)	<i>The installation, inspection and maintenance of equipment used in explosive atmospheres – Part 1: Installations including surface installations on mines. Consolidated edition incorporating amendment No. 3.</i> Amended to replace and update referenced standards.
SANS 10089-1:2003 (Ed. 4.1)	<i>The petroleum industry – Part 1: Storage and distribution of petroleum products in above-ground bulk installations. Consolidated edition incorporating amendment No. 1.</i> Amended to update and add to normative references and the bibliography to align with national and international standards, to add two new definitions and to correct the values given in annex B.
SANS 10210: 1997 (Ed. 2.1)	<i>Calculating and predicting road traffic noise. Consolidated edition incorporating amendment No. 1.</i> Amended to make provision for a correction for bituminous road surfaces with random distributed chippings.
SANS 10228:2003 (SABS 0228:1995)	<i>The identification and classification of dangerous goods for transport.</i> Covers the identification of dangerous substances and goods that are capable of posing a significant risk to health and safety or to property and the environment. Covers requirements for all modes of transportation.

Standard No. and year	Title, scope and purport
SANS 14888-3:2003 ISO/IEC 14888-3:1998	<i>Information technology – Security techniques – Digital signatures with appendix – Part 3: Certificate-based mechanisms. Technical corrigendum No. 3. Amended to correct a symbol, to correct the formula for computing the signature, and to correct the ESIGN signature and values for s.</i>
SANS 20055:2003/ ECE R55:2001	<i>Uniform provisions concerning the approval of mechanical coupling components of combinations of vehicles. ECE corrigendum No. 1. Amended to extend the definitions for classes C50-1 to C50-6 and D50-C to C50-7 and D50-D, respectively; add kilonewtons as the unit for D_c value; change references to "vertical load" to read "mass", and the corresponding unit "kgf" to read "kg"; change a dimension for fifth wheel coupling pins; correct the equation for separation force for the static separation test; and replace the term "tow ball" by "coupling ball".</i>
SANS 60811-2-1:2003 (Ed. 2.1) (IEC 60811-2-1:2001)	<i>Common test methods for insulating and sheathing materials of electric and optical cables – Part 2-1: Methods specific to elastomeric compounds – Ozone resistance, hot set and mineral oil immersion tests. Consolidated edition incorporating IEC amendment No. 1. Amended to change the main title, to extend the scope, to add a normative reference, to change the requirements of test apparatus and the procedure for the ozone resistance test, to change requirements for sampling and preparation of test pieces, the procedure and the evaluation of results for the hot set test, and to change a requirement for the mineral oil immersion test for sheaths.</i>
SANS 60974-1:2003 (Ed. 1.1) (IEC 60974-1:1998)	<i>Arc-welding equipment – Part 1: Welding power sources. Consolidated edition incorporating IEC amendment No. 1. Amended to add a normative reference, definitions and requirements for plasma cutting systems.</i>
SANS 62151:2003/ IEC 62151:2000	<i>Safety of equipment electrically connected to a telecommunication network. IEC corrigendum No. 1. Amended to add additional requirements regarding TNV circuits and telecommunication networks in Finland, Norway and Sweden. IEC corrigendum No. 2. Amended to modify corrigendum 1.</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 127:1989/ ISO 1024 (SABS ISO 1024)	<i>Metallic materials – Hardness test – Rockwell superficial test (scales 15N, 30N, 45N, 15T, 30T and 45T)</i>
SANS 1599-0-1:1995 (SABS 1599-0-1)	<i>Cranes – Part 0: General – Section 1: Classification</i>
SANS 1599-0-2:1995 (SABS 1599-0-2)	<i>Cranes – Part 0: General – Section 2: Wind load assessment</i>
SANS 1599-0-3:1995 (SABS 1599-0-3)	<i>Cranes – Part 0: General – Section 3: Test code and procedures</i>
SANS 1599-0-4:1995 (SABS 1599-0-4)	<i>Cranes – Part 0: General – Section 4: Technical characteristics and acceptance documents</i>
SANS 1599-2:1994 (SABS 1599-2)	<i>Cranes – Part 2: Power-driven mobile cranes</i>
SANS 1599-3:1994 (SABS 1599-3)	<i>Cranes – Part 3: Tower cranes</i>
SANS 1599-4-2:1995 (SABS 1599-4-2)	<i>Cranes – Part 4: Overhead travelling and portal bridge cranes – Section 2: Lifting appliances – Controls – Layout and characteristics</i>
SANS 1663:1996/ (SABS 1663)	<i>Safety of manually operated switches for fixed installations</i>
SANS 6506:1981/ ISO 6506 (SABS ISO 6506)	<i>Metallic materials – Hardness test – Brinell test</i>
SANS 6508:1986/ ISO 6508 (SABS ISO 6508)	<i>Metallic materials – Hardness test – Rockwell test (scales A-B-C-D-E-F-G-H-K)</i>
SANS 10141:1988/ (SABS 0141)	<i>The processing, testing and storage of silver-gelatin microfilm for archival purposes</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, Bloemfontein, 9320.