

FEDERALE OVERHEIDSDIENST ECONOMIE,  
K.M.O., MIDDENSTAND EN ENERGIE

[C – 2017/13108]

**Bureau voor Normalisatie (NBN)**  
**Registratie van Belgische normen**

1. Overeenkomstig artikel 26 van het koninklijk besluit van 25 oktober 2004 betreffende de bekrachtiging en de registratie van de door het Bureau voor normalisatie openbaar gemaakte normen, kondigt dit Bureau de registratie aan van de hierna volgende Belgische normen :

NBN EN 1017:2014+A1:2017

Chemicals used for treatment of water intended for human consumption - Half-burnt dolomite

vervangt NBN EN 1017:2014 (3e uitgave)

NBN EN 12697-18:2017

Bituminous mixtures - Test methods - Part 18: Binder drainage

vervangt NBN EN 12697-18:2004 (1e uitgave)

NBN EN 12697-27:2017

Bituminous mixtures - Test methods - Part 27: Sampling

vervangt NBN EN 12697-27:2001 (1e uitgave)

NBN EN 13141-3:2017

Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 3: Range hoods for residential use without fan

vervangt NBN EN 13141-3:2004 (1e uitgave)

NBN EN 13479:2017

Welding consumables - General product standard for filler metals and fluxes for fusion welding of metallic materials

vervangt NBN EN 13479:2005 (1e uitgave)

NBN EN 13480-1:2017

Metallic industrial piping - Part 1: General

vervangt NBN EN 13480-1:2012 (2e uitgave)

NBN EN 13480-2:2017

Metallic industrial piping - Part 2: Materials

vervangt NBN EN 13480-2:2012 (2e uitgave), NBN EN 13480-2/A1:2013 (1e uitgave), NBN EN 13480-2:2012/A2:2016

NBN EN 13480-3:2017

Metallic industrial piping - Part 3: Design and calculation

vervangt NBN EN 13480-3:2012 (2e uitgave)

NBN EN 13480-4:2017

Metallic industrial piping - Part 4: Fabrication and installation

vervangt NBN EN 13480-4:2012 (2e uitgave), NBN EN 13480-4/A1:2013 (1e uitgave), NBN EN 13480-4:2012/A2:2016, NBN EN 13480-4:2012/A3:2016, NBN EN 13480-4:2012/A4:2017

NBN EN 13480-5:2017

Metallic industrial piping - Part 5: Inspection and testing

vervangt NBN EN 13480-5:2012 (2e uitgave), NBN EN 13480-5/A1:2013 (1e uitgave), NBN EN 13480-5:2012/A2:2017, NBN EN 13480-5:2012/A3:2017

NBN EN 13480-6:2017

Metallic industrial piping - Part 6: Additional requirements for buried piping

vervangt NBN EN 13480-6:2012 (2e uitgave), NBN EN 13480-6:2012/A1:2016

NBN EN 13480-8:2017

Metallic industrial piping - Part 8: Additional requirements for aluminium and aluminium alloy piping

vervangt NBN EN 13480-8:2012 (2e uitgave), NBN EN 13480-8/A1:2014 (1e uitgave), NBN EN 13480-8/A2:2015 (1e uitgave)

NBN EN 1364-5:2017

Fire resistance tests for non-loadbearing elements - Part 5: Air transfer grilles

NBN EN 1384:2017

Helmets for equestrian activities

vervangt NBN EN 1384:2012 (2e uitgave)

NBN EN 13952:2017

LPG equipment and accessories - Filling operations for LPG cylinders

vervangt NBN EN 13952:2003 (1e uitgave), NBN EN 13952/A1:2006 (1e uitgave)

NBN EN 14187-1:2017

Cold applied joint sealants - Test methods - Part 1: Determination of rate of cure

vervangt NBN EN 14187-1:2003 (1e uitgave)

NBN EN 1439:2017

LPG equipment and accessories - Procedure for checking transportable refillable LPG cylinders before, during and after filling

vervangt NBN EN 1439:2008 (3e uitgave)

NBN EN 14915:2013+A1:2017

Solid wood panelling and cladding - Characteristics, requirements and marking

vervangt NBN EN 14915:2013 (2e uitgave)

NBN EN 15163:2017

Machines and installations for the exploitation and processing of natural stone - Safety - Requirements for diamond wire saws

vervangt NBN EN 15163:2008 (1e uitgave)

NBN EN 15824:2017

Specifications for external renders and internal plasters based on organic binders

vervangt NBN EN 15824:2009 (1e uitgave)

NBN EN 16587:2017

Railway applications - Design for PRM Use - Requirements on obstacle free routes for infrastructure

NBN EN 16603-50-15:2017

Space engineering - CANbus extension protocol

NBN EN 16723-2:2017

Natural gas and biomethane for use in transport and biomethane for injection in the natural gas network - Part 2: Automotive fuels specification

NBN EN 16757:2017

Sustainability of construction works - Environmental product declarations - Product Category Rules for concrete and concrete elements

NBN EN 16798-13:2017

Energy performance of buildings - Ventilation for buildings - Part 13: Calculation of cooling systems (Module M4-8) - Generation

vervangt NBN EN 15243:2007 (1e uitgave)

NBN EN 16798-15:2017

Energy performance of buildings - Ventilation for buildings - Part 15: Calculation of cooling systems (Module M4-7) - Storage

NBN EN 16798-17:2017

Energy performance of buildings - Ventilation for buildings - Part 17: Guidelines for inspection of ventilation and air conditioning systems (Module M4-11, M5-11, M6-11, M7-11)

vervangt NBN EN 15239:2007 (1e uitgave), NBN EN 15240:2007 (1e uitgave)

NBN EN 16798-7:2017

Energy performance of buildings - Ventilation for buildings - Part 7: Calculation methods for the determination of air flow rates in buildings including infiltration (Modules M5-5)

vervangt NBN EN 15242:2007 (1e uitgave)

NBN EN 16798-9:2017

Energy performance of buildings - Ventilation for buildings - Part 9: Calculation methods for energy requirements of cooling systems (Modules M4-1, M4-4, M4-9) - General

vervangt NBN EN 15243:2007 (1e uitgave)

NBN EN 16820:2017

Rubber and plastics hoses and hose assemblies for use in the pharmaceutical and biotechnological industry - Bonded elastomeric hoses with or without a lining

NBN EN 16821:2017

Rubber and plastics hoses and hose assemblies for use in the pharmaceutical and biotechnological industry - Silicone rubber hoses

NBN EN 16844:2017

Aesthetic medicine services - Non-surgical medical treatments

NBN EN 16897:2017

Workplace exposure - Characterization of ultrafine aerosols/nanoaerosols - Determination of number concentration using condensation particle counters

NBN EN 16913:2017

Ambient air - Standard method for measurement of NO<sub>3</sub><sup>-</sup>, SO<sub>4</sub><sup>2-</sup>, Cl<sup>-</sup>, NH<sub>4</sub><sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Mg<sup>2+</sup>, Ca<sup>2+</sup> in PM<sub>2,5</sub> as deposited on filters

NBN EN 16931-1:2017

Electronic invoicing - Part 1: Semantic data model of the core elements of an electronic invoice

NBN EN 16995:2017

Foodstuffs - Vegetable oils and foodstuff on basis of vegetable oils - Determination of mineral oil saturated hydrocarbons (MOSH) and mineral oil aromatic hydrocarbons (MOAH) with on-line HPLC-GC-FID analysis

NBN EN 1860-1:2013+A1:2017

Appliances, solid fuels and firelighters for barbecuing - Part 1: Barbecues burning solid fuels - Requirements and test methods

vervangt NBN EN 1860-1:2013 (2e uitgave)

NBN EN 1993-4-1:2007/A1:2017

Eurocode 3 - Design of steel structures - Part 4-1: Silos

NBN EN 1993-4-2:2007/A1:2017

Eurocode 3 - Design of steel structures - Part 4-2: Tanks

NBN EN 2714-013:2017

Aerospace series - Cables, electrical, single and multicore for general purpose - Operating temperatures between -55 °C and 260 °C - Part 013: DR family, screened (spiral) and jacketed, UV laser printable - Product standard

vervangt NBN EN 2714-013:2006 (1e uitgave)

NBN EN 2997-001:2017

Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures - 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak - Part 001: Technical specification

vervangt NBN EN 2997-001:2011 (3e uitgave)

NBN EN 300 224:2017

Land Mobile Service - Radio Equipment for use in a Paging Service operating within the frequency range 25 MHz - 470 MHz - Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

NBN EN 301 357:2017

Cordless audio devices in the range 25 MHz to 2 000 MHz - Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

NBN EN 302 296:2017

Digital Terrestrial TV Transmitters - Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

NBN EN 303 413:2017

Satellite Earth Stations and Systems (SES) - Global Navigation Satellite System (GNSS) receivers - Radio equipment operating in the 1 64 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands - Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

NBN EN 3773-006:2017

Aerospace series - Circuit breakers, single-pole, temperature compensated, rated currents 1 A to 25 A - Part 006: 6,3 mm blade terminal - Product standard

NBN EN 4072:2016/AC:2017

Aerospace series - Screws, 100° countersunk normal head, offset cruciform recess, close tolerance shank, short thread in titanium alloy, aluminium IVD coated - Classification: 1 100 MPa (at ambient temperature)/425 °C (Version June 2016)

vervangt NBN EN 4072:2016/AC:2017

NBN EN 4674-003:2017

Aerospace series - Electrical cables, installation - Self-wrapping shielding (EMI) protective sleeve - Part 003: Open sleeve - Inside pressurized area - EMI protection 5 kA - Temperature range - 65 °C to 200 °C - Product standard

vervangt NBN EN 4674-003:2015 (1e uitgave)

NBN EN 4804:2017

Aerospace series - Flange couplings - Swivel flange with 4 fastening holes, in nickel alloy - Inch series

NBN EN 4805:2017

Aerospace series - Flange couplings - Weld coupling, straight, in heat resisting steel - Inch series

NBN EN 4806:2017

Aerospace series - Flange couplings - Weld coupling, straight, in nickel alloy - Inch series

NBN EN 4809:2017

Aerospace series - Flange couplings - Gasket seal with fluorocarbon seal on aluminium plate with 3 fastening holes - Inch series

NBN EN 50180-3:2015/A1:2017

Bushings above 1 kV up to 52 kV and from 250 A to 3,15 kA for liquid filled transformers - Part 3: Requirements for bushing fixations

NBN EN 50341-2-13:2017/A1:2017

Overhead electrical lines exceeding AC 1 kV - Part 2-13: National Normative Aspects (NNA) for ITALY (based on EN 50341-1:2012)

NBN EN 50647:2017

Basic standard for the evaluation of workers' exposure to electric and magnetic fields from equipment and installations for the production, transmission and distribution of electricity

NBN EN 55016-1-4:2010/A2:2017

Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements

NBN EN 60034-12:2017

Rotating electrical machines - Part 12: Starting performance of single-speed three-phase cage induction motors

NBN EN 60034-18-42:2017

Rotating electrical machines - Part 18-42: Partial discharge resistant electrical insulation systems (Type II) used in rotating electrical machines fed from voltage converters - Qualification tests

NBN EN 60068-2-18:2017

Environmental testing - Part 2-18: Tests - Test R and guidance: Water

NBN EN 60068-2-69:2017

Environmental testing - Part 2-69: Tests - Test Te/Tc: Solderability testing of electronic components and printed boards by the wetting balance (force measurement) method

NBN EN 60664-3:2017

Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection against pollution

NBN EN 60695-11-5:2017

Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance

NBN EN 60749-3:2017

Semiconductor devices - Mechanical and climatic test methods - Part 3: External visual examination

NBN EN 60749-4:2017

Semiconductor devices - Mechanical and climatic test methods - Part 4: Damp heat, steady state, highly accelerated stress test (HAST)

NBN EN 60749-6:2017

Semiconductor devices - Mechanical and climatic test methods - Part 6: Storage at high temperature

NBN EN 60749-9:2017

Semiconductor devices - Mechanical and climatic test methods - Part 9: Permanence of marking

NBN EN 60810:2015/A1:2017

Lamps for road vehicles - Performance requirements

NBN EN 61000-4-39:2017

Electromagnetic Compatibility (EMC) - Part 4-39: Testing and measurement techniques - Radiated fields in close proximity - Immunity test

NBN EN 61076-2-113:2017

Connectors for electronic equipment - Product requirements - Part 2-113: Circular connectors - Detail specification for connectors with M12 screw locking with power and signal contacts for data transmission with frequency up to 100 MHz

NBN EN 61169-11:2017

Radio-frequency connectors - Part 11: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 9,5 mm with threaded coupling - Characteristic impedance 50  $\Omega$  (type 4,1-9,5)

NBN EN 61291-5-2:2017

Optical amplifiers - Part 5-2: Qualification specifications - Reliability qualification for optical fibre amplifiers

NBN EN 61300-2-55:2017

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-55: Tests - Strength of mounted adaptor

NBN EN 61400-12-1:2017

Wind energy generation systems - Part 12-1: Power performance measurement of electricity producing wind turbines

NBN EN 61800-9-1:2017

Adjustable speed electrical power drive systems - Part 9-1: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - General requirements for setting energy efficiency standards for power driven equipment using the extended product approach (EPA) and semi analytic model (SAM)

NBN EN 61800-9-2:2017

Adjustable speed electrical power drive systems - Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - Energy efficiency indicators for power drive systems and motor starters

NBN EN 61951-2:2017

Secondary cells and batteries containing alkaline or other non acid electrolytes - Secondary sealed cells and batteries for portable applications - Part 2: Nickel-metal hydride

NBN EN 62056-7-3:2017

Electricity metering data exchange - The DLMS/COSEM suite - Part 7-3: Wired and wireless M-Bus communication profiles for local and neighbourhood networks

NBN EN 62127-2:2008/A2:2017

Ultrasonics - Hydrophones - Part 2: Calibration for ultrasonic fields up to 40 MHz

NBN EN 62321-7-2:2017

Determination of certain substances in electrotechnical products - Part 7-2: Hexavalent chromium - Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method

NBN EN 62321-8:2017

Determination of certain substances in electrotechnical products - Part 8: Phthalates in polymers by gas chromatography-mass spectrometry (GC-MS), gas chromatography-mass spectrometry using a pyrolyzer/thermal desorption accessory (Py/TD-GC-MS)

NBN EN 62325-451-1:2017

Framework for energy market communications - Part 451-1: Acknowledgement business process and contextual model for CIM European market

NBN EN 62433-3:2017

EMC IC modelling - Part 3: Models of Integrated Circuits for EMI behavioural simulation - Radiated emissions modelling (ICEM-RE)

NBN EN 62561-1:2017

Lightning Protection System Components (LPSC) - Part 1: Requirements for connection components

NBN EN 62717:2017

LED modules for general lighting - Performance requirements

NBN EN 62745:2017

Safety of machinery - Requirements for cableless control systems of machinery

NBN EN 62841-2-10:2017

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-10: Particular requirements for hand-held mixers

NBN EN 62841-3-13:2017

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-13: Particular requirements for transportable drills

NBN EN 62931:2017

GX16t-5 capped tubular led lamp - Safety specifications

NBN EN 62943:2017

Visible light beacon system for multimedia applications

NBN EN 62944:2017

Audio, video and multimedia systems and equipment - Digital television accessibility - Functional specifications

NBN EN 62949:2017

Particular safety requirements for equipment to be connected to information and communication networks

NBN EN 716-1:2017

Furniture - Children's cots and folding cots for domestic use - Part 1: Safety requirements

vervangt NBN EN 716-1+A1:2013 (3e uitgave)

NBN EN 716-2:2017

Furniture - Children's cots and folding cots for domestic use - Part 2: Test methods

vervangt NBN EN 716-2+A1:2013 (3e uitgave)

NBN EN ISO 10563:2017

Buildings and civil engineering works - Sealants - Determination of change in mass and volume (ISO 10563:2017)

vervangt NBN EN ISO 10563:2005 (3e uitgave)

NBN EN ISO 10939:2017

Ophthalmic instruments - Slit-lamp microscopes (ISO 10939:2017)

vervangt NBN EN ISO 10939:2007 (2e uitgave)

NBN EN ISO 11290-1:2017

Microbiology of the food chain - Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp. - Part 1: Detection method (ISO 11290-1:2017)

vervangt NBN EN ISO 11290-1:1997 (1e uitgave), NBN EN ISO 11290-1/A1:2004 (1e uitgave)

NBN EN ISO 11290-2:2017

Microbiology of the food chain - Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp. - Part 2: Enumeration method (ISO 11290-2:2017)

vervangt NBN EN ISO 11290-2:1998 (1e uitgave), NBN EN ISO 11290-2/A1:2004 (1e uitgave)

NBN EN ISO 11609:2017

Dentistry - Dentifrices - Requirements, test methods and marking (ISO 11609:2017)

vervangt NBN EN ISO 11609:2010 (2e uitgave)

NBN EN ISO 11731:2017

Water quality - Enumeration of *Legionella* (ISO 11731:2017)

vervangt NBN EN ISO 11731-2:2008 (1e uitgave)

NBN EN ISO 12813:2015/A1:2017

Electronic fee collection - Compliance check communication for autonomous systems - Amendment 1 (ISO 12813:2015/Amd 1:2017)

NBN EN ISO 13141:2015/A1:2017

Electronic fee collection - Localisation augmentation communication for autonomous systems - Amendment 1 (ISO 13141:2015/Amd 1:2017)

NBN EN ISO 14555:2017

Welding - Arc stud welding of metallic materials (ISO 14555:2017)

vervangt NBN EN ISO 14555:2014 (3e uitgave)

NBN EN ISO 15257:2017

Cathodic protection - Competence levels of cathodic protection persons - Basis for certification scheme (ISO 15257:2017)

vervangt NBN EN 15257:2007 (1e uitgave)

NBN EN ISO 15614-1:2017

Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys (ISO 15614-1:2017)

vervangt NBN EN ISO 15614-1:2004 (1e uitgave), NBN EN ISO 15614-1 NL:2014 (1e uitgave), NBN EN ISO 15614-1/A1:2008 (1e uitgave), NBN EN ISO 15614-1/A2:2012 (1e uitgave)

NBN EN ISO 16120-1:2017

Non-alloy steel wire rod for conversion to wire - Part 1: General requirements (ISO 16120-1:2017)

vervangt NBN EN ISO 16120-1:2011 (1e uitgave)

NBN EN ISO 16120-4:2017

Non-alloy steel wire rod for conversion to wire - Part 4: Specific requirements for wire rod for special applications (ISO 16120-4:2017)

vervangt NBN EN ISO 16120-4:2011 (1e uitgave)

NBN EN ISO 16664:2017

Gas analysis - Handling of calibration gases and gas mixtures - Guidelines (ISO 16664:2017)

vervangt NBN EN ISO 16664:2009 (1e uitgave)

NBN EN ISO 18415:2017

Cosmetics - Microbiology - Detection of specified and non-specified microorganisms (ISO 18415:2017)

vervangt NBN EN ISO 18415:2011 (1e uitgave)

NBN EN ISO 19020:2017

Microbiology of the food chain - Horizontal method for the immunoenzymatic detection of staphylococcal enterotoxins in food-stuffs (ISO 19020:2017)

NBN EN ISO 19490:2017

Dentistry - Sinus membrane elevator (ISO 19490:2017)

NBN EN ISO 20568-1:2017

Plastics - Fluoropolymer dispersions and moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 20568-1:2017)

vervangt NBN EN ISO 12086-1:2006 (2e uitgave)

NBN EN ISO 20568-2:2017

Plastics - Fluoropolymer dispersions and moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 20568-2:2017)

vervangt NBN EN ISO 12086-2:2006 (2e uitgave)

NBN EN ISO 21148:2017

Cosmetics - Microbiology - General instructions for microbiological examination (ISO 21148:2017)

vervangt NBN EN ISO 21148:2009 (1e uitgave)

NBN EN ISO 21149:2017

Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria (ISO 21149:2017)

vervangt NBN EN ISO 21149:2009 (1e uitgave)

NBN EN ISO 25178-72:2017

Geometrical product specifications (GPS) - Surface texture: Areal - Part 72: XML file format x3p (ISO 25178-72:2017)

NBN EN ISO 294-1:2017

Plastics - Injection moulding of test specimens of thermoplastic materials - Part 1: General principles, and moulding of multipurpose and bar test specimens (ISO 294-1:2017)

vervangt NBN EN ISO 294-1:1998 (1e uitgave), NBN EN ISO 294-1/A1:2002 (1e uitgave)

NBN EN ISO 4254-12:2012/A1:2017

Agricultural machinery - Safety - Part 12: Rotary disc and drum mowers and flail mowers (ISO 4254-12:2012/Amd 1:2017)

NBN EN ISO 5659-2:2017

Plastics - Smoke generation - Part 2: Determination of optical density by a single-chamber test (ISO 5659-2:2017)

vervangt NBN EN ISO 5659-2:2013 (3e uitgave)

NBN EN ISO 636:2017

Welding consumables - Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels - Classification (ISO 636:2017)

vervangt NBN EN ISO 636:2016

NBN EN ISO 6806:2017

Rubber hoses and hose assemblies for use in oil burners - Specification (ISO 6806:2017)

vervangt NBN EN ISO 6806:2014 (2e uitgave)

NBN EN ISO 9405:2017

Textile floor coverings - Assessment of changes in appearance (ISO 9405:2015)

vervangt NBN EN 1471:1997 (1e uitgave), NBN EN 1471/A1:2003 (1e uitgave)

NBN EN ISO 9697:2017

Water quality - Gross beta activity in non-saline water - Test method using thick source (ISO 9697:2015)

2. De normen afgeleid van de Europese normen (EN) zijn in principe beschikbaar in het Engels, het Frans en het Duits; de normen afgeleid van de internationale normen (ISO) zijn in principe beschikbaar in het Engels en in het Frans.

3. Deze normen zijn verkrijgbaar bij het Bureau voor normalisatie, Jozef II-straat 40 bus 6, 1000 Brussel, tegen betaling van hun prijs.

4. De registratie van de volgende Belgische normen wordt ingetrokken:

NBN EN 15224 NL:2014 (1e uitgave)

NBN EN 50464-3:2007 (1e uitgave)

NBN EN 61000-4-23:2001 (1e uitgave)