

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

[C – 2017/13233]

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 10028-1:2017

Flat products made of steels for pressure purposes - Part 1: General requirements

vervangt NBN EN 10028-1+A1:2009 (5e uitgave)

NBN EN 10028-2:2017

Flat products made of steels for pressure purposes - Part 2: Non-alloy and alloy steels with specified elevated temperature properties

vervangt NBN EN 10028-2:2009 (5e uitgave)

NBN EN 10028-3:2017

Flat products made of steels for pressure purposes - Part 3: Weldable fine grain steels, normalized

vervangt NBN EN 10028-3:2009 (5e uitgave)

NBN EN 10028-4:2017

Flat products made of steels for pressure purposes - Part 4: Nickel alloy steels with specified low temperature properties

vervangt NBN EN 10028-4:2009 (3e uitgave)

NBN EN 10028-5:2017

Flat products made of steels for pressure purposes - Part 5: Weldable fine grain steels, thermomechanically rolled

vervangt NBN EN 10028-5:2009 (3e uitgave)

NBN EN 10028-6:2017

Flat products made of steels for pressure purposes - Part 6: Weldable fine grain steels, quenched and tempered

vervangt NBN EN 10028-6:2009 (3e uitgave)

NBN EN 10120:2017

Steel sheet and strip for welded gas cylinders

vervangt NBN EN 10120:2009 (2e uitgave)

NBN EN 10247:2017

Micrographic examination of the non-metallic inclusion content of steels using standard pictures

vervangt NBN EN 10247:2007 (1e uitgave)

NBN EN 115-1:2017

Safety of escalators and moving walks - Part 1: Construction and installation

vervangt NBN EN 115-1+A1:2010 (3e uitgave)

NBN EN 12485:2017

Chemicals used for treatment of water intended for human consumption - Calcium carbonate, high-calcium lime, half-burnt dolomite, magnesium oxide, calcium magnesium carbonate and dolomitic lime - Test methods

vervangt NBN EN 12485:2010 (2e uitgave)

NBN EN 12831-1:2017

Energy performance of buildings - Method for calculation of the design heat load - Part 1: Space heating load, Module M3-3

vervangt NBN EN 12831:2003 (1e uitgave), NBN EN 12831 NL:2014 (1e uitgave)

NBN EN 12831-3:2017

Energy performance of buildings - Method for calculation of the design heat load - Part 3: Domestic hot water systems heat load and characterisation of needs, Module M8-2, M8-3

vervangt NBN EN 15316-3-1:2008 (1e uitgave)
NBN EN 1330-9:2017
Non-destructive testing - Terminology - Part 9: Terms used in acoustic emission testing
vervangt NBN EN 1330-9:2009 (1e uitgave)
NBN EN 13523-21:2017
Coil coated metals - Test methods - Part 21: Evaluation of outdoor exposed panels
vervangt NBN EN 13523-21:2010 (2e uitgave)
NBN EN 13523-24:2017
Coil coated metals - Test methods - Part 24: Resistance to blocking and pressure marking
vervangt NBN EN 13523-24:2005 (1e uitgave)
NBN EN 13523-8:2017
Coil coated metals - Test methods - Part 8: Resistance to salt spray (fog)

vervangt NBN EN 13523-8:2010 (2e uitgave)
NBN EN 1359:2017
Gas meters - Diaphragm gas meters
vervangt NBN EN 1359:1999 (1e uitgave), NBN EN 1359/A1:2006 (1e uitgave)
NBN EN 13915:2017
Prefabricated gypsum plasterboard panels with a cellular paperboard core - Definitions, requirements and test methods
vervangt NBN EN 13915:2007 (1e uitgave)
NBN EN 14209:2017
Preformed plasterboard cornices - Definitions, requirements and test methods
vervangt NBN EN 14209:2006 (1e uitgave)
NBN EN 14353:2017
Metal beads and feature profiles for use with gypsum plasterboards - Definitions, requirements and test methods
vervangt NBN EN 14353+A1:2010 (2e uitgave)
NBN EN 14354:2017
Wood-based panels - Wood veneer floor coverings
vervangt NBN EN 14354:2005 (1e uitgave)
NBN EN 14496:2017
Gypsum based adhesives for thermal/acoustic insulation composite panels and gypsum boards - Definitions, requirements and test methods
vervangt NBN EN 14496:2006 (1e uitgave)
NBN EN 1453-1:2017/AC:2017
Plastics piping systems with structured-wall pipes for soil and waste discharge (low and high temperature) inside buildings - Unplasticized poly(vinyl chloride) (PVC-U) - Part 1: Specifications for pipes and the system
NBN EN 14543:2017
Specification for dedicated liquefied petroleum gas appliances - Parasol patio heaters - Flueless radiant heaters for outdoor or amply ventilated area use

- vervangt NBN EN 14543+A1:2007 (1e uitgave)
 NBN EN 14988:2017
 Children's high chairs - Requirements and test methods
 vervangt NBN EN 14988-1+A1:2012 (3e uitgave)
 NBN EN 15330-2:2017
 Surfaces for sports areas - Synthetic turf and needle-punched surfaces primarily designed for outdoor use - Part 2: Specification for needle-punched surfaces for tennis and multi-sport surfaces
- vervangt NBN EN 15330-2:2008 (1e uitgave)
 NBN EN 15470:2017
 Liquefied petroleum gases - Determination of dissolved residues - High temperature Gas chromatographic method
 vervangt NBN EN 15470:2008 (1e uitgave)
 NBN EN 15471:2017
 Liquefied petroleum gases - Determination of dissolved residues - High-temperature gravimetric method
 vervangt NBN EN 15471:2008 (1e uitgave)
 NBN EN 15651-4:2017/AC:2017
 Sealants for non-structural use in joints in buildings and pedestrian walkways - Part 4: Sealants for pedestrian walkways
- NBN EN 15657:2017
 Acoustic properties of building elements and of buildings - Laboratory measurement of structure-borne sound from building service equipment for all installation conditions
 vervangt NBN EN 15657-1:2009 (1e uitgave)
 NBN EN 15663:2017
 Railway applications - Vehicle reference masses
 vervangt NBN EN 15663:2009 (1e uitgave)
 NBN EN 16214-3:2012+A1:2017
 Sustainability criteria for the production of biofuels and bioliquids for energy applications - Principles, criteria, indicators and verifiers - Part 3: Biodiversity and environmental aspects related to nature protection purposes
 vervangt NBN EN 16214-3:2012 (1e uitgave)
 NBN EN 16282-1:2017
 Equipment for commercial kitchens - Components for ventilation in commercial kitchens - Part 1: General requirements including calculation method
 NBN EN 16282-5:2017
 Equipment for commercial kitchens - Components for ventilation in commercial kitchens - Part 5: Air duct; Design and dimensioning
- NBN EN 16282-7:2017
 Equipment for commercial kitchens - Components for ventilation in commercial kitchens - Part 7: Installation and use of fixed fire suppression systems
 NBN EN 16282-8:2017
 Equipment for commercial kitchens - Components for ventilation in commercial kitchens - Part 8: Installations for treatment of aerosol; Requirements and testing
- NBN EN 16432-1:2017
 Railway applications - Ballastless track systems - Part 1: General requirements
 NBN EN 16640:2017/AC:2017
 Bio-based products - Bio-based carbon content - Determination of the bio-based carbon content using the radiocarbon method
 NBN EN 16930:2017
 Animal feeding stuffs: Methods of sampling and analysis - Determination of carbadox and olaquinox by HPLC/UV
 NBN EN 16948:2017
 Child protective products - Consumer fitted child resistant locking devices for cupboards and drawers - Safety requirements and test methods
 NBN EN 16967:2017
 Animal feeding stuffs: Methods of sampling and analysis - Predictive equations for metabolizable energy in feed materials and compound feed (pet food) for cats and dogs including dietetic food
- NBN EN 302 017:2017
 Transmitting equipment for the Amplitude Modulated (AM) sound broadcasting service;- Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
 NBN EN 3021:2017
 Aerospace series - Molybdenum disulphide dry film lubricants graphite and halogen free - Technical specification
 NBN EN 3302:2017
 Aerospace series - Bolts in heat resisting steel FE-PM1708 (FV535) - Classification: 1 000 MPa/550 °C - Technical specification
 vervangt NBN EN 3302:2008 (1e uitgave)

NBN EN 4162:2016/AC:2017

Aerospace series - Screws 100° countersunk normal head, offset cruciform recess, coarse tolerance normal shank, medium length thread, in alloy steel, cadmium plated - Classification: 1 100 MPa (at ambient temperature)/235 °C

NBN EN 4681-001:2017

Aerospace series - Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium - Part 001: Technical Specification

vervangt NBN EN 4681-001:2012 (1e uitgave)

NBN EN 60079-30-2:2017

Explosive atmospheres - Part 30-2: Electrical resistance trace heating - Application guide for design, installation and maintenance

NBN EN 60603-7-81:2016/AC:2017-08

Connectors for electronic equipment - Part 7-81: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 2 000 MHz

NBN EN 60700-2:2016/AC:2017-08

Thyristor valves for high voltage direct current (HVDC) power transmission - Part 2: Terminology

NBN EN 60728-101:2017/AC:2017-08

Cable networks for television signals, sound signals and interactive services - Part 101: System performance of forward paths loaded with digital channels only

NBN EN 60749-28:2017

Semiconductor devices - Mechanical and climatic test methods - Part 28: Electrostatic discharge (ESD) sensitivity testing - Charged device model (CDM) - device level

NBN EN 60749-5:2017

Semiconductor devices - Mechanical and climatic test methods - Part 5: Steady-state temperature humidity bias life test

NBN EN 60794-1-2:2017/AC:2017-08

Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance

NBN EN 60825-1:2014/AC:2017-08

Safety of laser products - Part 1: Equipment classification and requirements

NBN EN 61188-7:2017

Printed boards and printed board assemblies - Design and use - Part 7: Electronic component zero orientation for CAD library construction

NBN EN 61215-2:2017/AC:2017-08

Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures

NBN EN 61252:1996/A2:2017

Electroacoustics - Specifications for personal sound exposure meters

NBN EN 61260-2:2016/A1:2017

Electroacoustics - Octave-band and fractional-octave-band filters - Part 2: Pattern-evaluation tests

NBN EN 61672-2:2014/A1:2017

Electroacoustics - Sound level meters - Part 2: Pattern evaluation tests

NBN EN 61810-1:2015/AC:2017-08

Electromechanical elementary relays - Part 1: General and safety requirements

NBN EN 61954:2011/A2:2017

Static VAR compensators (SVC) - Testing of thyristor valves

NBN EN 61967-4:2002/AC:2017-08

Integrated circuits - Measurement of electromagnetic emissions, 150 kHz to 1 GHz - Part 4: Measurement of conducted emissions - 1 ohm/150 ohm direct coupling method

NBN EN 62056-8-6:2017

Electricity metering data exchange - The DLMS/COSEM suite - Part 8-6: High speed PLC ISO/IEC 12139-1 profile for neighbourhood networks

NBN EN 62090:2017

Product package labels for electronic components using bar code and two-dimensional symbologies

NBN EN 62231-1:2016

Composite station post insulators for substations with AC voltages greater than 1 000 V up to 245 kV - Part 1: Dimensional, mechanical and electrical characteristics

NBN EN 62282-4-102:2017

Fuel cell technologies - Part 4-102: Fuel cell power systems for industrial electric trucks - Performance test methods

NBN EN 62325-451-3:2014/A1:2017
 Framework for energy market communications - Part 451-3: Transmission capacity allocation business process (explicit or implicit auction) and contextual models for European market

NBN EN 62325-451-4:2017
 Framework for energy market communications - Part 451-4: Settlement and reconciliation business process, contextual and assembly models for European market

NBN EN 62351-9:2017
 Power systems management and associated information exchange - Data and communications security - Part 9: Cyber security key management for power system equipment

NBN EN 62580-1:2016/A11:2017
 Electronic railway equipment - On-board multimedia and telematic subsystems for railways - Part 1: General architecture

NBN EN 62612:2013/A1:2017
 Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements

NBN EN 62612:2013/A11:2017
 Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements

NBN EN 62657-2:2017
 Industrial communication networks - Wireless communication networks - Part 2: Coexistence management

NBN EN 62680-3-1:2017
 Universal Serial Bus interfaces for data and power - Part 3-1: Universal Serial Bus 3.1 Specification

NBN EN 62974-1:2017
 Monitoring and measuring systems used for data collection, gathering and analysis - Part 1: Device requirements

NBN EN ISO 10077-1:2017
 Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 1: General (ISO 10077-1:2017)

vervangt NBN EN ISO 10077-1:2006 (2e uitgave)

NBN EN ISO 10077-2:2017
 Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 2: Numerical method for frames (ISO 10077-2:2017)

vervangt NBN EN ISO 10077-2:2012 (2e uitgave)

NBN EN ISO 10211:2017
 Thermal bridges in building construction - Heat flows and surface temperatures - Detailed calculations (ISO 10211:2017)

vervangt NBN EN ISO 10211:2008 (2e uitgave)

NBN EN ISO 10272-1:2017
 Microbiology of the food chain - Horizontal method for detection and enumeration of *Campylobacter* spp. - Part 1: Detection method (ISO 10272-1:2017)

vervangt NBN EN ISO 10272-1:2006 (1e uitgave)

NBN EN ISO 10272-2:2017
 Microbiology of the food chain - Horizontal method for detection and enumeration of *Campylobacter* spp. - Part 2: Colony-count technique (ISO 10272-2:2017)

NBN EN ISO 11137-3:2017
 Sterilization of health care products - Radiation - Part 3: Guidance on dosimetric aspects of development, validation and routine control (ISO 11137-3:2017)

vervangt NBN EN ISO 11137-3:2006 (2e uitgave)

NBN EN ISO 11607-1:2017
 Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging systems (ISO 11607-1:2006)

vervangt NBN EN ISO 11607-1:2009 (2e uitgave), NBN EN ISO 11607-1/A1:2014 (1e uitgave)

NBN EN ISO 11607-2:2017
 Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes (ISO 11607-2:2006)

vervangt NBN EN ISO 11607-2:2006 (1e uitgave), NBN EN ISO 11607-2/A1:2014 (1e uitgave)

NBN EN ISO 12631:2017
 Thermal performance of curtain walling - Calculation of thermal transmittance (ISO 12631:2017)

vervangt NBN EN ISO 12631:2012 (1e uitgave)

NBN EN ISO 13370:2017
 Thermal performance of buildings - Heat transfer via the ground - Calculation methods (ISO 13370:2017)

vervangt NBN EN ISO 13370:2008 (2e uitgave)

NBN EN ISO 13786:2017
 Thermal performance of building components - Dynamic thermal characteristics - Calculation methods (ISO 13786:2017)

vervangt NBN EN ISO 13786:2008 (2e uitgave)

NBN EN ISO 13789:2017
Thermal performance of buildings - Transmission and ventilation heat transfer coefficients - Calculation method (ISO 13789:2017)

vervangt NBN EN ISO 13789:2008 (2e uitgave)

NBN EN ISO 13843:2017
Water quality - Requirements for establishing performance characteristics of quantitative microbiological methods (ISO 13843:2017)
vervangt NBN ENV ISO 13843:2001 (1e uitgave)

NBN EN ISO 14683:2017
Thermal bridges in building construction - Linear thermal transmittance - Simplified methods and default values (ISO 14683:2017)

vervangt NBN EN ISO 14683:2008 (2e uitgave)

NBN EN ISO 15621:2017
Absorbent incontinence aids for urine and/or faeces - General guidelines on evaluation (ISO 15621:2017)

NBN EN ISO 16212:2017
Cosmetics - Microbiology - Enumeration of yeast and mould (ISO 16212:2017)
vervangt NBN EN ISO 16212:2011 (1e uitgave)

NBN EN ISO 16484-5:2017
Building automation and control systems (BACS) - Part 5: Data communication protocol (ISO 16484-5:2017)
vervangt NBN EN ISO 16484-5:2014 (5e uitgave)

NBN EN ISO 19343:2017
Microbiology of the food chain - Detection and quantification of histamine in fish and fishery products - HPLC method (ISO 19343:2017)

NBN EN ISO 20227:2017
Water quality - Determination of the growth inhibition effects of waste waters, natural waters and chemicals on the duckweed *Spirodela polyrhiza* - Method using a stock culture independent microbiotest (ISO 20227:2017)

NBN EN ISO 21528-1:2017
Microbiology of the food chain - Horizontal method for the detection and enumeration of Enterobacteriaceae - Part 1: Detection of Enterobacteriaceae (ISO 21528-1:2017)

NBN EN ISO 21528-2:2017
Microbiology of the food chain - Horizontal method for the detection and enumeration of Enterobacteriaceae - Part 2: Colony-count technique (ISO 21528-2:2017)

NBN EN ISO 21872-1:2017
Microbiology of the food chain - Horizontal method for the determination of *Vibrio* spp. - Part 1: Detection of potentially enteropathogenic *Vibrio parahaemolyticus*, *Vibrio cholerae* and *Vibrio vulnificus* (ISO 21872-1:2017)

NBN EN ISO 377:2017
Steel and steel products - Location and preparation of samples and test pieces for mechanical testing (ISO 377:2017)
vervangt NBN EN ISO 377:2013 (5e uitgave)

NBN EN ISO 52000-1:2017
Energy performance of buildings - Overarching EPB assessment - Part 1: General framework and procedures (ISO 52000-1:2017)
vervangt NBN EN 15603:2008 (1e uitgave)

NBN EN ISO 52003-1:2017
Energy performance of buildings - Indicators, requirements, ratings and certificates - Part 1: General aspects and application to the overall energy performance (ISO 52003-1:2017)
vervangt NBN EN 15217:2007 (1e uitgave)

NBN EN ISO 52010-1:2017
Energy performance of buildings - External climatic conditions - Part 1: Conversion of climatic data for energy calculations (ISO 52010-1:2017)

NBN EN ISO 52016-1:2017
Energy performance of buildings - Energy needs for heating and cooling, internal temperatures and sensible and latent heat loads - Part 1: Calculation procedures (ISO 52016-1:2017)
vervangt NBN EN 15255:2007 (1e uitgave), NBN EN 15265:2007 (1e uitgave), NBN EN ISO 13790:2008 (2e uitgave), NBN EN ISO 13791:2012 (2e uitgave), NBN EN ISO 13792:2012 (2e uitgave)

NBN EN ISO 52017-1:2017
Energy performance of buildings - Sensible and latent heat loads and internal temperatures - Part 1: Generic calculation procedures (ISO 52017-1:2017)
vervangt NBN EN 15255:2007 (1e uitgave), NBN EN 15265:2007 (1e uitgave), NBN EN ISO 13791:2012 (2e uitgave), NBN EN ISO 13792:2012 (2e uitgave)

NBN EN ISO 52018-1:2017

Energy performance of buildings - Indicators for partial EPB requirements related to thermal energy balance and fabric features - Part 1: Overview of options (ISO 52018-1:2017)

NBN EN ISO 52022-1:2017

Energy performance of buildings - Thermal, solar and daylight properties of building components and elements - Part 1: Simplified calculation method of the solar and daylight characteristics for solar protection devices combined with glazing (ISO 52022-1:2017)
vervangt NBN EN 13363-1+A1:2007 (2e uitgave)

NBN EN ISO 52022-3:2017

Energy performance of buildings - Thermal, solar and daylight properties of building components and elements - Part 3: Detailed calculation method of the solar and daylight characteristics for solar protection devices combined with glazing (ISO 52022-3:2017)
vervangt NBN EN 13363-2:2005 (1e uitgave)

NBN EN ISO 6946:2017

Building components and building elements - Thermal resistance and thermal transmittance - Calculation methods (ISO 6946:2017)
vervangt NBN EN ISO 6946:2008 (2e uitgave)

NBN EN ISO 80601-2-56:2017

Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement (ISO 80601-2-56:2017)
vervangt NBN EN ISO 80601-2-56:2012 (1e uitgave)

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 CEN/TR 13480-7:2003 (1e uitgave)

NBN CEN/TR 15615:2009 (1e uitgave)

NBN EN 60300-2:2005 (2e uitgave)

NBN HD 632:2009 (2e uitgave)