

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

[C - 2021/20703]

**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 12312-5:2021

Aircraft ground support equipment - Specific requirements - Part 5: Aircraft fuelling equipment vervangt NBN EN 12312-5+A1:2009 (2e uitgave)

NBN EN 12514:2020/AC:2021

Components for supply systems for consuming units with liquid fuels

NBN EN 13321-1:2021

Open data communication in building automation, controls and building management - Home and building electronic system - Part 1: Product and system requirements vervangt NBN EN 13321-1:2012 (2e uitgave)

NBN EN 13423:2021

Natural gas vehicles - Requirements for NGV workshops and the management of compressed natural gas (CNG) vehicles vervangt NBN EN 13423:2000 (1e uitgave)

NBN EN 13480-3:2017/A1:2021

Metallic industrial piping - Part 3: Design and calculation

NBN EN 13555:2021

Flanges and their joints - Gasket parameters and test procedures relevant to the design rules for gasketed circular flange connections vervangt NBN EN 13555:2014 (2e uitgave)

NBN EN 1366-4:2021

Fire resistance tests for service installations - Part 4: Linear joint seals vervangt NBN EN 1366-4+A1:2010 (2e uitgave)

NBN EN 143:2021

Respiratory protective devices - Particle filters - Requirements, testing, marking vervangt NBN EN 143:2000 (2e uitgave), NBN EN 143/A1:2006 (1e uitgave)

NBN EN 14387:2021

Respiratory protective devices - Gas filter(s) and combined filter(s) - Requirements, testing, marking vervangt NBN EN 14387+A1:2008 (2e uitgave)

NBN EN 15595:2018/AC:2021

Railway applications - Braking - Wheel slide protection

NBN EN 15624:2021

Railway applications - Braking - Empty-loaded changeover devices vervangt NBN EN 15624+A1:2010 (2e uitgave)

NBN EN 15625:2021

Railway applications - Braking - Automatic variable load sensing devices vervangt NBN EN 15625+A1:2010 (2e uitgave)

NBN EN 16351:2021

Timber structures - Cross laminated timber - Requirements vervangt NBN EN 16351:2015

NBN EN 16429:2021

Stationary source emissions - Reference method for the determination of the concentration of gaseous hydrogen chloride (HCl) in waste gases emitted by industrial installations into the atmosphere

NBN EN 16942:2016+A1:2021

Fuels - Identification of vehicle compatibility - Graphical expression for consumer information vervangt NBN EN 16942:2017

NBN EN 17444:2021

Doping prevention in sport - Good development and manufacturing practices aimed at preventing the presence of prohibited substances in food intended for sportspeople and food supplements

NBN EN 17450-1:2021

Fixed firefighting systems - Water mist components - Part 1: Product characteristics and test methods for strainer and filter components

NBN EN 301 489-4:2021

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility

NBN EN 302 099:2021

Environmental Engineering (EE); Powering of equipment in access network

NBN EN 303 364-2:2021

Primary Surveillance Radar (PSR); Harmonised Standard for access to radio spectrum; Part 2: Air Traffic Control (ATC) PSR sensors operating in the frequency band 2 700 MHz to 3 100 MHz (S band)

NBN EN 303 699:2021

Satellite Earth Stations and Systems (SES); Fixed earth stations communicating with non-geostationary satellite systems in the 20 GHz and 30 GHz FSS bands; Harmonised Standard for access to radio spectrum

NBN EN 303 883-1:2021

Short Range Devices (SRD) and Ultra Wide Band (UWB); Part 1: Measurement techniques for transmitter requirements

NBN EN 303 883-2:2021

Short Range Devices (SRD) and Ultra Wide Band (UWB); Part 2: Measurement techniques for receiver requirements

NBN EN 50696:2021

Contact Interface for Automated Connection Device

NBN EN 60825-1:2014/A11:2021

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

NBN EN IEC 60305:2021

Insulators for overhead lines with a nominal voltage above 1000 V - Ceramic or glass insulator units for AC systems - Characteristics of insulator units of the cap and pin type

NBN EN IEC 60433:2021

Insulators for overhead lines with a nominal voltage above 1000 V - Ceramic insulators for AC systems - Characteristics of insulator units of the long rod type

NBN EN IEC 60747-17:2020/AC:2021-02

Semiconductor devices - Part 17: Magnetic and capacitive coupler for basic and reinforced insulation

NBN EN IEC 60794-1-2:2021

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

NBN EN IEC 60947-1:2021

Low-voltage switchgear and controlgear - Part 1: General rules

NBN EN IEC 60947-3:2021

Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units

NBN EN IEC 61169-15:2021

Radio-frequency connectors - Part 15: Sectional specification - RF coaxial connectors with inner diameter of outer conductor 4,13 mm (0,163 in) with threaded coupling - Characteristic impedance 50  $\Omega$  (type SMA)

NBN EN IEC 61169-65:2021

Radio-frequency connectors - Part 65: Sectional specification for RF coaxial connectors, 1,35 mm inner diameter of outer conductor, with screw-coupling, characteristic impedance 50  $\Omega$

NBN EN IEC 61563:2021

Radiation protection instrumentation - Equipment for measuring the activity concentration of gamma-emitting radionuclides in foodstuffs

NBN EN IEC 61800-1:2021

Adjustable speed electrical power drive systems - Part 1: General requirements - Rating specifications for low voltage adjustable speed DC power drive systems

NBN EN IEC 62244:2021

Radiation protection instrumentation - Installed radiation portal monitors (RPMs) for the detection of illicit trafficking of radioactive and nuclear materials

NBN EN IEC 62485-6:2021

Safety requirements for secondary batteries and battery installations - Part 6: Safe operation of lithium-ion batteries in traction applications

NBN EN IEC 63047:2021

Nuclear instrumentation - Data format for list mode digital data acquisition used in radiation detection and measurement

NBN EN IEC 63115-2:2021

Secondary cells and batteries containing alkaline or other non-acid electrolytes - Sealed nickel-metal hydride cells and batteries for use in industrial applications - Part 2: Safety

NBN EN ISO 10225:2021

Gas welding equipment - Marking for equipment used for gas welding, cutting and allied processes (ISO 10225:2013)

NBN EN ISO 11127-1:2021

Preparation of steel substrates before application of paints and related products - Test methods for non-metallic blast-cleaning abrasives - Part 1: Sampling (ISO 11127-1:2020) vervangt NBN EN ISO 11127-1:2012 (2e uitgave)

NBN EN ISO 11127-2:2021

Preparation of steel substrates before application of paints and related products - Test methods for non-metallic blast-cleaning abrasives - Part 2: Determination of particle size distribution (ISO 11127-2:2021) vervangt NBN EN ISO 11127-2:2012 (2e uitgave)

NBN EN ISO 11127-3:2021

Preparation of steel substrates before application of paints and related products - Test methods for non-metallic blast-cleaning abrasives - Part 3: Determination of apparent density (ISO 11127-3:2021) vervangt NBN EN ISO 11127-3:2012 (2e uitgave)

NBN EN ISO 11127-5:2021

Preparation of steel substrates before application of paints and related products - Test methods for non-metallic blast-cleaning abrasives - Part 5: Determination of moisture (ISO 11127-5:2020) vervangt NBN EN ISO 11127-5:2012 (2e uitgave)

NBN EN ISO 11357-4:2021

Plastics - Differential scanning calorimetry (DSC) - Part 4: Determination of specific heat capacity (ISO 11357-4:2021) vervangt NBN EN ISO 11357-4:2014 (2e uitgave)

NBN EN ISO 11357-8:2021

Plastics - Differential scanning calorimetry (DSC) - Part 8: Determination of thermal conductivity (ISO 11357-8:2021)

NBN EN ISO 11929-1:2021

Determination of the characteristic limits (decision threshold, detection limit and limits of the coverage interval) for measurements of ionizing radiation - Fundamentals and application - Part 1: Elementary applications (ISO 11929-1:2019) vervangt NBN ISO 11929-1:2020

NBN EN ISO 11929-2:2021

Determination of the characteristics limits (decision threshold, detection limit and limits of the coverage interval) for measurements of ionizing radiation - Fundamentals and application - Part 2: Advanced applications (ISO 11929-2:2019) vervangt NBN ISO 11929-2:2020

NBN EN ISO 11929-3:2021

Determination of the characteristic limits (decision threshold, detection limit and limits of the coverage interval) for measurements of ionizing radiation - Fundamentals and application - Part 3: Applications to unfolding methods (ISO 11929-3:2019) vervangt NBN ISO 11929-3:2020

NBN EN ISO 12004-2:2021

Metallic materials - Determination of forming-limit curves for sheet and strip - Part 2: Determination of forming-limit curves in the laboratory (ISO 12004-2:2021) vervangt NBN EN ISO 12004-2:2009 (1e uitgave)

NBN EN ISO 12807:2021

Safe transport of radioactive materials - Leakage testing on packages (ISO 12807:2018) vervangt NBN ISO 12807:2020

NBN EN ISO 13919-2:2021

Electron and laser-beam welded joints - Requirements and recommendations on quality levels for imperfections - Part 2: Aluminium, magnesium and their alloys and pure copper (ISO 13919-2:2021) vervangt NBN EN ISO 13919-2:2001 (1e uitgave), NBN EN ISO 13919-2/A1:2004 (1e uitgave)

NBN EN ISO 14091:2021

Adaptation to climate change - Guidelines on vulnerability, impacts and risk assessment (ISO 14091:2021)

NBN EN ISO 14146:2021

Radiological protection - Criteria and performance limits for the periodic evaluation of dosimetry services (ISO 14146:2018) vervangt NBN ISO 14146:2020

NBN EN ISO 14644-17:2021

Cleanrooms and associated controlled environments - Part 17: Particle deposition rate applications (ISO 14644-17:2021)

NBN EN ISO 14819-2:2021

Intelligent transport systems - Traffic and travel information messages via traffic message coding - Part 2: Event and information codes for Radio Data System-Traffic Message Channel (RDS-TMC) using ALERT-C (ISO 14819-2:2021) vervangt NBN EN ISO 14819-2:2014 (2e uitgave)

NBN EN ISO 14819-3:2021

Intelligent transport systems - Traffic and travel information messages via traffic message coding - Part 3: Location referencing for Radio Data System - Traffic Message Channel (RDS-TMC) using ALERT-C (ISO 14819-3:2021) vervangt NBN EN ISO 14819-3:2014 (3e uitgave)

NBN EN ISO 15741:2021

Paints and varnishes - Friction-reduction coatings for the interior of on- and offshore steel pipelines for non-corrosive gases (ISO 15741:2016)

NBN EN ISO 15854:2021

Dentistry - Casting and baseplate waxes (ISO 15854:2021) vervangt NBN EN ISO 15854:2005 (2e uitgave)

NBN EN ISO 16793:2021

Nuclear fuel technology - Guidelines for ceramographic preparation of UO<sub>2</sub> sintered pellets for microstructure examination (ISO 16793:2018) vervangt NBN ISO 16793:2020

NBN EN ISO 17226-1:2021

Leather - Chemical determination of formaldehyde content - Part 1: Method using high-performance liquid chromatography (ISO 17226-1:2021) vervangt NBN EN ISO 17226-1:2019

NBN EN ISO 17562:2021

Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for linear thermal expansion of monolithic ceramics by push-rod technique (ISO 17562:2016) vervangt NBN EN 821-1:1995 (1e uitgave)

NBN EN ISO 18256-1:2021

Nuclear fuel technology - Dissolution of plutonium dioxide-containing materials - Part 1: Dissolution of plutonium dioxide powders (ISO 18256-1:2019) vervangt NBN ISO 18256-1:2020

NBN EN ISO 18256-2:2021

Nuclear fuel technology - Dissolution of plutonium dioxide-containing materials - Part 2: Dissolution of MOX pellets and powders (ISO 18256-2:2019) vervangt NBN ISO 18256-2:2020

NBN EN ISO 18530:2021

Health Informatics - Automatic identification and data capture marking and labelling - Subject of care and individual provider identification (ISO 18530:2021)

NBN EN ISO 18595:2021

Resistance welding - Spot welding of aluminium and aluminium alloys - Weldability, welding and testing (ISO 18595:2021) vervangt NBN EN ISO 18595:2008 (1e uitgave)

NBN EN ISO 19135-1:2015/A1:2021

Geographic information - Procedures for item registration - Part 1: Fundamentals - Amendment 1 (ISO 19135-1:2015/Amd 1:2021)

NBN EN ISO 19628:2021

Fine ceramics (advanced ceramics, advanced technical ceramics) - Thermophysical properties of ceramic composites - Determination of specific heat capacity (ISO 19628:2017) vervangt NBN EN 1159-3:2003 (2e uitgave)

NBN EN ISO 19918:2017/A1:2021

Protective clothing - Protection against chemicals - Measurement of cumulative permeation of chemicals with low vapour pressure through materials - Amendment 1: Extraction and chemical analysis (ISO 19918:2017/Amd 1:2021)

NBN EN ISO 20046:2021

Radiological protection - Performance criteria for laboratories using Fluorescence In Situ Hybridization (FISH) translocation assay for assessment of exposure to ionizing radiation (ISO 20046:2019) vervangt NBN ISO 20046:2020

NBN EN ISO 20566:2021

Paints and varnishes - Determination of the scratch resistance of a coating system using a laboratory-scale car-wash (ISO 20566:2020) vervangt NBN EN ISO 20566:2013 (2e uitgave)

NBN EN ISO 22081:2021

Geometrical product specifications (GPS) - Geometrical tolerancing - General geometrical specifications and general size specifications (ISO 22081:2021) vervangt NBN EN 22768-2:1993 (1e uitgave)

NBN EN ISO 22184:2021

Milk and milk products - Determination of the sugar contents - High performance anion exchange chromatography with pulsed amperometric detection method (HPAEC-PAD) (ISO 22184:2021)

NBN EN ISO 22259:2021

Conference systems - Equipment - Requirements (ISO 22259:2019)

NBN EN ISO 22579:2021

Infant formula and adult nutritionals - Determination of fructans - High performance anion exchange chromatography with pulsed amperometric detection (HPAEC-PAD) after enzymatic treatment (ISO 22579:2020)

NBN EN ISO 22826:2021

Destructive tests on welds in metallic materials - Hardness testing of narrow joints welded by laser and electron beam (Vickers and Knoop hardness tests) (ISO 22826:2005)

NBN EN ISO 24024-1:2021

Plastics - Homopolymer and copolymer resins of vinyl chloride - Part 1: Designation system and basis for specifications (ISO 24024-1:2021) vervangt NBN EN ISO 1060-1:1999 (1e uitgave)

NBN EN ISO 24024-2:2021

Plastics - Homopolymer and copolymer resins of vinyl chloride - Part 2: Preparation of test samples and determination of properties (ISO 24024-2:2021) vervangt NBN EN ISO 1060-2:1999 (1e uitgave)

NBN EN ISO 28057:2021

Clinical dosimetry - Dosimetry with solid thermoluminescence detectors for photon and electron radiations in radiotherapy (ISO 28057:2019) vervangt NBN EN ISO 28057:2018

NBN EN ISO 28080:2021

Hardmetals - Abrasion tests for hardmetals (ISO 28080:2021)

NBN EN ISO 4037-1:2021

Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 1: Radiation characteristics and production methods (ISO 4037-1:2019) vervangt NBN ISO 4037-1:2020

NBN EN ISO 4037-2:2021

Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 2: Dosimetry for radiation protection over the energy ranges from 8 keV to 1,3 MeV and 4 MeV to 9 MeV (ISO 4037-2:2019) vervangt NBN ISO 4037-2:2020

NBN EN ISO 4037-3:2021

Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 3: Calibration of area and personal dosimeters and the measurement of their response as a function of energy and angle of incidence (ISO 4037-3:2019) vervangt NBN ISO 4037-3:2020

NBN EN ISO 4037-4:2021

Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 4: Calibration of area and personal dosimeters in low energy X reference radiation fields (ISO 4037-4:2019) vervangt NBN ISO 4037-4:2020

NBN EN ISO 52127-1:2021

Energy performance of buildings - Building management system - Part 1: Module M10-12 (ISO 52127-1:2021) vervangt NBN EN 16947-1:2017



NBN EN ISO 6540:2021

Maize - Determination of moisture content (on milled grains and on whole grains) (ISO 6540:2021) vervangt NBN EN ISO 6540:2010 (1e uitgave)

NBN EN ISO 6721-3:2021

Plastics - Determination of dynamic mechanical properties - Part 3: Flexural vibration - Resonance-curve method (ISO 6721-3:2021) vervangt NBN EN ISO 6721-3:1996 (1e uitgave)

NBN EN ISO 8299:2021

Nuclear fuel technology - Determination of the isotopic and elemental uranium and plutonium concentrations of nuclear materials in nitric acid solutions by thermal-ionization mass spectrometry (ISO 8299:2019) vervangt NBN ISO 8299:2020

NBN EN ISO 8536-12:2021

Infusion equipment for medical use - Part 12: Check valves for single use (ISO 8536-12:2021)

NBN EN ISO 9073-4:2021

Nonwovens - Test methods - Part 4: Determination of tear resistance by the trapezoid procedure (ISO 9073-4:2021) vervangt NBN EN ISO 9073-4:1998 (2e uitgave)

NBN EN ISO 9161:2021

Uranium dioxide powder - Determination of apparent density and tap density (ISO 9161:2019) vervangt NBN ISO 9161:2020

NBN EN ISO 9463:2021

Nuclear energy - Nuclear fuel technology - Determination of plutonium in nitric acid solutions by spectrophotometry (ISO 9463:2019) vervangt NBN ISO 9463:2020

NBN EN ISO/ASTM 52950:2021

Additive manufacturing - General principles - Overview of data processing (ISO/ASTM 52950:2021) vervangt NBN EN ISO 17296-4:2016

NBN ISO 4254-16:2021

Agricultural machinery — Safety — Part 16: Portable agricultural grain augers

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 14876:2007 (1e uitgave)

NBN EN 50291-1/A1:2012 (2e uitgave)

NBN EN 50291-1:2010 (2e uitgave)

NBN EN 50505:2009 (1e uitgave)

NBN EN 60068-3-5:2002 (1e uitgave)

NBN EN 60068-3-6:2002 (1e uitgave)

NBN EN 60099-5:2013 (2e uitgave)

NBN EN 60191-1:2007 (1e uitgave)

NBN EN 60215/A1:1995 (1e uitgave)

NBN EN 60215:1993 (1e uitgave)

NBN EN 60230:2002 (1e uitgave)

NBN EN 60244-1:2000 (1e uitgave)

NBN EN 60244-10:1994 (1e uitgave)

NBN EN 60244-11:1994 (1e uitgave)

NBN EN 60244-12-1:1995 (1e uitgave)

NBN EN 60244-12-2:1995 (1e uitgave)

NBN EN 60244-13:1994 (1e uitgave)

NBN EN 60244-14:1998 (1e uitgave)

NBN EN 60244-15:2000 (1e uitgave)

NBN EN 60244-5:1995 (1e uitgave)

NBN EN 60244-8:1995 (1e uitgave)

NBN EN 60244-9:1995 (1e uitgave)

NBN EN 60512-15-2:2010 (1e uitgave)

NBN EN 60512-8-3:2011 (1e uitgave)

NBN EN 60749-26:2014 (2e uitgave)

NBN EN 60793-1-54:2013 (2e uitgave)

NBN EN 60810:2015 (4e uitgave)

NBN EN 60810:2015/A1:2017

NBN EN 60864-2:1998 (1e uitgave)

NBN EN 61125/A1:2005 (7e uitgave)  
NBN EN 61125:1995 (7e uitgave)  
NBN EN 61340-4-5:2005 (1e uitgave)  
NBN EN 61566:1997 (1e uitgave)  
NBN EN 61804-2:2007 (2e uitgave)  
NBN EN 62148-1:2002 (1e uitgave)  
NBN EN 62199:2004 (1e uitgave)  
NBN EN 62272-2:2007 (1e uitgave)  
NBN EN 62273-1:2007 (1e uitgave)  
NBN EN 62553:2013 (1e uitgave)  
NBN EN 62731:2013 (1e uitgave)  
NBN EN 62802:2017  
NBN EN 62803:2016