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ASUTATUD, PEATATUD JA LÕPETATUD KOMITEED

EVS/TK 71 „Valveteenused ja -süsteemid“ asutamine

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UUED STANDARDID JA STANDARDILAADSED DOKUMENDID

01 ÜLDKÜSIMUSED. TERMINOLOOGIA. STANDARDIMINE. DOKUMENTATSIOON

EVS-EN ISO 4007:2018

Isikukaitsevahendid. Silma- ja näokaitse. Sõnavara
Personal protective equipment - Eye and face protection - Vocabulary (ISO 4007:2018)

This document defines and explains the principal terms used in the field of personal eye and face protection.

Keel: en
Alusdokumendid: ISO 4007:2018; EN ISO 4007:2018
Asendab dokumenti: EVS-EN ISO 4007:2012

03 TEENUSED. ETTEVÕTTE ORGANISEERIMINE, JUHTIMINE JA KVALITEET. HALDUS. TRANSPORT. SOTSIOLOOGIA

CEN/TS 17234:2018

Intelligent transport systems - eSafety - eCall: Tests to enable PSAPs to demonstrate conformance and performance

The scope of this document is to define conformance and performance tests to demonstrate whether a PSAPis in compliance with the eCall Regulations and Standards. This deliverable: a) identifies the MANDATORY tests specified within EN 16454 that are appropriate for a PSAP to demonstrate its conformance to EN 16454 in accordance with European Commission Delegated Regulation (EU) No 305/2013; b) specifies tests to verify that a PSAP has procedures in place to identify and decode registered optional additional data concepts (3.5) included in the Minimum set of data (3.15); c) provides OPTIONAL tests to measure aspects of PSAP performance in handling aspects of eCall.

Keel: en
Alusdokumendid: CEN/TS 17234:2018

CEN/TS 17249-3:2018

Intelligent transport systems - eSafety - Part 3: eCall for Coaches and buses

In respect of 112-eCall (operating requirements defined in EN 16072), this document defines additional specifications for the provision of eCall for coaches and buses. As with the existing provisions for eCall for Category M1/N1 vehicles, these are specified within the paradigm of being OEM fit equipment supplied with new vehicles. NOTE 1 The provision of eCall for vehicles via the aftermarket (post sale and registration) will be the subject of other work, and in respect of the operational requirements for any such aftermarket solutions for coaches and buses, will use the specifications of this document as a reference point. NOTE 2 The 112-eCall paradigm involves a direct call from the vehicle to the most appropriate PSAP. (Third party service provision by comparison, involves the support of an intermediary third party service provider before the call is forwarded to the PSAP.) The specifications herein relate only to the provision of 112-eCall or IMS-112-eCall, and do not provide specifications for third party service provision of eCall, although in the case of 112-eCall or IMS-112-eCall for coaches, links to third party provision of service aspects (such as passenger lists) may be required.

Keel: en
Alusdokumendid: CEN/TS 17249-3:2018

EVS-EN IEC 62239-1:2018

Process management for avionics - Management plan - Part 1: Preparation and maintenance of an electronic components management plan

IEC 62239-1:2018 defines the requirements for developing an electronic components management plan (ECMP) to guarantee to customers that all of the electronic components in the equipment of the plan owner are selected and applied in controlled processes compatible with the end application and that the technical requirements detailed in Clause 4 are accomplished. In general, the plan owner of a complete electronic components management plan (ECMP) is the avionics original equipment manufacturer (OEM). This first edition cancels and replaces IEC TS 62239-1 published in 2015. This edition includes the following significant technical changes with respect to the previous edition: a) added references to SAE EIA-STD-4899, IECQ OD 3702, IECQ OD 3407-1, IEC TR 62240-2, IECQ component schemes, SAE AS6081, SAE AS6171. GEIA-STD-0005-1 GEIA STD 0008; b) replaced Annex C (which was transferred into IEC TR 62240-2) with a cross-reference table to SAE EIASTD4899 rev C clauses/ subclauses for guidance purposes only; c) added the analysis of component technical erratum d) updated Bibliography and reference documents

Keel: en
Alusdokumendid: IEC 62239-1:2018; EN IEC 62239-1:2018

EVS-EN ISO 50001:2018

Energiajuhtimissüsteemid. Nõuded koos rakendamisjuhistega
Energy management systems - Requirements with guidance for use (ISO 50001:2018)

See dokument määratleb nõuded energiajuhtimissüsteemi (EJS-i) sisseseadmiseks, elluviimiseks, toimivana hoidmiseks ja parendamiseks. Kavatsetud väljund tagab, et organisatsioon järgib süstemaatilist lähenemisviisi energiatulemuslikkuse ja EJS-i järjepideva parendamise saavutamisel. See dokument a) on kohaldatav kõikidele organisatsioonidele, sõltumata nende tüübist,

suurusest, keerukusest, geograafilisest asukohast, organisatsiooni kultuurist või pakutavatest toodetest ja teenustest; b) on kohaldatav organisatsiooni poolt juhitud ja ohjatud tegevustele, mis mõjutavad energiatulemuslikkust; c) on kohaldatav sõltumata tarbitava energia kogusest, kasutusest või liigist; d) nõuab energiatulemuslikkuse järjepideva parendamise näitamist, kuid ei määratle energiatulemuslikkuse parendamise tasemeid, mida saavutada; e) võib olla kasutatud iseseisvalt või joondatud või lõimitud teiste juhtimissüsteemidega. Lisa A pakub juhised selle dokumendi kasutamiseks. Lisa B pakub võrdluse selle väljaande ja eelmise väljaande vahel.

Keel: en, et
Alusdokumendid: EN ISO 50001:2018; ISO 50001:2018
Asendab dokumenti: EVS-EN ISO 50001:2011

07 LOODUS- JA RAKENDUSTEADUSED

CEN/TS 17276:2018

Nanotechnologies - Guidelines for Life Cycle Assessment - Application of EN ISO 14044:2006 to Manufactured Nanomaterials

This document provides guidelines for application of Life Cycle Assessments (LCA) of specific relevance to manufactured nanomaterials (MNMs), including their use in other products, according to EN ISO 14044:2006. It does not cover incidental nanomaterials.

Keel: en
Alusdokumendid: CEN/TS 17276:2018

11 TERVISEHOOLDUS

EVS-EN 14885:2018

Chemical disinfectants and antiseptics - Application of European Standards for chemical disinfectants and antiseptics

This European Standard specifies the European Standards to which products have to conform in order to support the claims for microbicidal activity which are referred to in this European Standard. This European Standard also specifies terms and definitions which are used in European Standards. It is applicable to products for which activity is claimed against the following microorganisms: vegetative bacteria (including mycobacteria and Legionella), bacterial spores, yeasts, fungal spores and viruses (including bacteriophages). It is intended to: a) enable manufacturers of products to select the appropriate standards to be used in order to provide data which support their claims for a specific product; b) enable users of the product to assess the information provided by the manufacturer in relation to the use for which they intend to use the product; c) assist regulatory authorities in assessing claims made by the manufacturer or by the person responsible for placing the product on the market. It is applicable to products to be used in the area of human medicine, the veterinary area and in food, industrial, domestic and institutional areas. In the area of human medicine, it is applicable to chemical disinfectants and antiseptics to be used in areas and situations where disinfection or antisepsis is medically indicated. Such indications occur in patient care - in hospitals, in community medical facilities and dental institutions, - in clinics of schools, of kindergartens and of nursing homes, - and may also occur in the workplace and in the home. It may also include services such as in laundries and kitchens supplying products directly for the patient. In the veterinary area it is applicable to chemical disinfectants and antiseptics to be used in the areas of breeding, husbandry, veterinary care facilities, production, transport and disposal of animals. It is not applicable to chemical disinfectants used in the food chain following death and entry to the processing industry. In food, industrial, domestic and institutional areas it is applicable to chemical disinfectants and antiseptics to be used in processing, distribution and retailing of food of animal or vegetable origin. It is also applicable to products for all public areas where disinfection is not medically indicated (homes, catering, schools, nurseries, transports, hotels, offices etc.) and products used in packaging, biotechnology, pharmaceutical, cosmetic etc. industries. This European Standard is also applicable to active substances and products under development for which no area of application has yet been specified. This European Standard does not refer to methods for testing the toxicological and ecotoxicological properties of products or active substances.

Keel: en
Alusdokumendid: EN 14885:2018
Asendab dokumenti: EVS-EN 14885:2015

EVS-EN 17126:2018

Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants in the medical area - Test method and requirements (phase 2, step 1)

This document specifies a test method and the minimum requirements for sporicidal activity of chemical disinfectant that form a homogeneous, physically stable preparation when diluted with hard water, or - in the case of ready-to-use products - with water. Products can only be tested at a concentration of 80 % or less (97 % with a modified method for special cases) as some dilution is always produced by adding the test organisms and interfering substance. This European Standard applies to products that are used in the medical area in the fields of instrument disinfection by immersion, and surface disinfection by wiping, spraying, flooding or other means. This European Standard applies to areas and situations where disinfection is medically indicated. Such indications occur in patient care, for example: - in hospitals, in community medical facilities and in dental institutions; - in clinics of schools, of kindergartens and of nursing homes; and may occur in the workplace and in the home. It may also include services such as laundries and kitchens supplying products directly for the patients. NOTE 1 The method described is intended to determine the activity of commercial formulations or active substances under the conditions in which they are used. NOTE 2 This method corresponds to a phase 2, step 1 test. EN 14885 specifies in detail the relationship of the various tests to one another and to "use recommendations".

Keel: en
Alusdokumendid: EN 17126:2018

EVS-EN ISO 7405:2018

Dentistry - Evaluation of biocompatibility of medical devices used in dentistry (ISO 7405:2018)

This document specifies test methods for the evaluation of biological effects of medical devices used in dentistry. It includes testing of pharmacological agents that are an integral part of the device under test. This document does not cover testing of materials and devices that do not come into direct or indirect contact with the patient's body.

Keel: en
Alusdokumendid: ISO 7405:2018; EN ISO 7405:2018
Asendab dokumenti: EVS-EN ISO 7405:2009
Asendab dokumenti: EVS-EN ISO 7405:2009/A1:2013

13 KESKKONNA- JA TERVISEKAITSE. OHUTUS

CEN ISO/TR 19664:2018

Human response to vibration - Guidance and terminology for instrumentation and equipment for the assessment of daily vibration exposure at the workplace according to the requirements of health and safety (ISO/TR 19664:2017)

The assessment of human exposure to vibration, to both the hand-arm system and the whole body, at the workplace relies on the combined evaluation of both vibration magnitudes and exposure times. Determining these values can employ various instrumentation types and data sources. ISO/TR 19664:2017 provides guidance and explanation of concepts used for the following: - measurement processes; - instrumentation types; - vibration magnitude source.

Keel: en
Alusdokumendid: ISO/TR 19664:2017; CEN ISO/TR 19664:2018

CEN/TR 15897:2018

Submerged Membrane Bioreactor (MBR) technology

This Technical Report defines terms commonly used in the field of membrane bioreactor technology. This document aims at submerged MBR systems for the treatment of municipal wastewater with MBR Separate Systems and MBR Integrated Systems. This document establishes general principles for MBR filtration systems interchangeability between different MBR filtration systems from different manufacturers.

Keel: en
Alusdokumendid: CEN/TR 15897:2018
Asendab dokumenti: CWA 15897:2008

CWA 17354:2018

Industrial Symbiosis: Core Elements and Implementation Approaches

Industrial symbiosis is the use by one company or sector of underutilised resources broadly defined (including waste, by-products, residues, energy, water, logistics, capacity, expertise, equipment and materials) from another, with the result of keeping resources in productive use for longer. It presents a systems approach to a more sustainable and integrated industrial economy that identifies business opportunities to improve resource utilisation and productivity. The objectives of this CEN Workshop Agreement (CWA) are to support the mainstream adoption of good practice approaches proven through implementation by advancing the mutual understanding of actors (public, private, third sector, and community) currently using the term industrial symbiosis in different ways. This CWA is intended to help the above actors consider and implement industrial symbiosis.

Keel: en
Alusdokumendid: CWA 17354:2018

EVS-EN 13832-2:2018

Kemikaalide eest kaitsvad jalatsid. Osa 2: Nõuded lühiajaliseks kokkupuuteks kemikaalidega Footwear protecting against chemicals - Part 2: Requirements for limited contact with chemicals

This European Standard specifies requirements for footwear to protect the user against limited contact in time with specific chemicals. The following risks are covered: splashing and degradation by chemical.

Keel: en
Alusdokumendid: EN 13832-2:2018
Asendab dokumenti: EVS-EN 13832-2:2006

EVS-EN 13832-3:2018

Kemikaalide eest kaitsvad jalatsid. Osa 3: Nõuded pikaajaliseks kokkupuuteks kemikaalidega Footwear protecting against chemicals - Part 3: Requirements for prolonged contact with chemicals

This European Standard specifies requirements for footwear intended to protect the wearer from a prolonged continuous contact (more than 1 hour) with specific chemicals. Degradation and permeation by chemicals are addressed in this standard. Other requirements are covered by reference to EN ISO 20345, 20346 or 20347 as appropriate.

Keel: en
Alusdokumendid: EN 13832-3:2018
Asendab dokumenti: EVS-EN 13832-3:2006

EVS-EN 15254-4:2018

Extended application of results from fire resistance tests - Non-loadbearing walls - Part 4: Glazed constructions

This document provides guidance and, where appropriate, defines procedures for variations of certain parameters and factors associated with the design of fire resistant glazed elements which have been tested in accordance with EN 1364-1:2015, and classified according to EN 13501-2. Extended application of fire resistant glazed elements is based on test evidence. This standard only applies to vertically installed fire resistant glazed elements. This standard does not apply to door sets and openable windows according to EN 1634-1 and does not apply to curtain walling - full configuration or curtain walling - part configuration according to EN 1364-3 and EN 1364-4. Glass block assemblies and paver units and channel-shaped glass as defined in EN 1051-1 and EN 572-7 are excluded. There is currently insufficient information available to enable rules for extended application to be developed for these products.

Keel: en
Alusdokumendid: EN 15254-4:2018
Asendab dokumenti: EVS-EN 15254-4:2008+A1:2011

EVS-EN 16907-2:2018

Earthworks - Part 2: Classification of materials

This document defines a common basis for description and classification for use by all parties involved in the design, planning and construction of the earthworks. This document specifies the processes and properties to be used in the description and classification of earthworks materials. It specifies soil and rock groups as a basis of material specifications for earth structure elements. This classification relates to the physical and chemical properties of the soil and rock materials. NOTE 1 The approach to description of soil and rock set out in EN ISO 14688-1 and EN ISO 14689 respectively and the approach to classification of soil set out in EN ISO 14688-2 are applicable to earthworks, but the range and scope of classification for earthworks given here is more detailed and orientated to the specific demands of earthwork procedures and earth structure elements. NOTE 2 Informative examples of existing national experience based classification systems and their use are presented in the annexes to EN 16907-1:2018.

Keel: en
Alusdokumendid: EN 16907-2:2018

EVS-EN 358:2018

Tööasendi- ja kukkumiskaitsevahendid. Vööd ja turvaliinid tööasendi tagamiseks või liikumisulatuse piiramiseks
Personal protective equipment for work positioning and prevention of falls from a height - Belts and lanyards for work positioning or restraint

See dokument käsitleb tööasendi tagamiseks või liikumisulatuse piiramiseks mõeldud vöösid ja turvaliine. Selles on täpsustatud nõuded, katsed, märgistus ja tootja kasutusjuhend. See dokument ei hõlma fikseeritud pikkusega turvaliine, mis pole vööga integreeritud. MÄRKUS Liikumisulatust piiravaid fikseeritud pikkusega turvaliine, mis pole vööga integreeritud, käsitletakse standardis EN 354.

Keel: en, et
Alusdokumendid: EN 358:2018
Asendab dokumenti: EVS-EN 358:2000

EVS-EN 363:2018

Kukkumisvastased isikukaitsevahendid. Kukkumiskaitsesüsteemid
Personal fall protection equipment - Personal fall protection systems

Selles dokumendis kirjeldatakse kukkumiskaitsesüsteemide üldisi omadusi ja nende kokkupanekut. Selles on toodud näited spetsiifilistest kukkumiskaitsesüsteemidest ja kirjeldatud, kuidas osadest süsteeme kokku panna.

Keel: en, et
Alusdokumendid: EN 363:2018
Asendab dokumenti: EVS-EN 363:2008

EVS-EN ISO 10634:2018

Water quality - Preparation and treatment of poorly water-soluble organic compounds for the subsequent evaluation of their biodegradability in an aqueous medium (ISO 10634:2018)

This document specifies techniques for preparing poorly water-soluble organic compounds (i.e. liquid and solid compounds) with a solubility in water of less than approximately 100 mg/l and introducing them into test vessels for a subsequent biodegradability test in an aqueous medium using standard methods. The subsequent tests on biodegradability are primarily methods using the analysis of the released carbon dioxide described in ISO 9439 and the determination of the oxygen described in ISO 9408 and following the usual precautions for ISO 10707. Thus, one can notice that the methods measuring the removal of dissolved organic

carbon (DOC) are not appropriate. This document does not specify the biodegradation test methods. It is restricted to describing techniques for introducing the test compounds into the test medium and to keeping them in a dispersed state[4]. These techniques are implemented while observing the experimental conditions described in the standardized methods for evaluating biodegradability. ISO 9439, based on CO2 evolution, is not suitable for testing volatile compounds. Some of the preparation methods described in this document might not be accepted by regulators for making conclusions on the ready biodegradability of tested compounds. Examples of biodegradability curves are given in Annex A.

Keel: en
Alusdokumendid: ISO 10634:2018; EN ISO 10634:2018
Asendab dokumenti: EVS-EN ISO 10634:1999

EVS-EN ISO 15681-2:2018

Water quality - Determination of orthophosphate and total phosphorus contents by flow analysis (FIA and CFA) - Part 2: Method by continuous flow analysis (CFA) (ISO 15681-2:2018)

This document specifies continuous flow analysis (CFA) methods for the determination of orthophosphate in the mass concentration range from 0,01 mg/l to 1,00 mg/l P, and total phosphorus in the mass concentration range from 0,10 mg/l to 10,0 mg/l P. The method includes the digestion of organic phosphorus compounds and the hydrolysis of inorganic polyphosphate compounds, performed either manually, as described in ISO 6878 and in References [4], [5] and [7], or with an integrated ultraviolet (UV) digestion and hydrolysis unit. This document is applicable to various types of water, such as ground, drinking, surface, leachate and waste water. The range of application can be changed by varying the operating conditions. This method is also applicable to the analysis of seawater, but with changes in sensitivity by adapting the carrier and calibration solutions to the salinity of the samples. It is also applicable to analysis using 10 mm to 50 mm cuvettes depending on the desired range. For extreme sensitivity, 250 mm and 500 mm long way capillary flow cells (LCFCs) can be used. However, the method is not validated for these two uses. Changes in sensitivity and calibration solutions could be required. Annex A provides examples of a CFA system. Annex B gives performance data from interlaboratory trials. Annex C gives information of determining orthophosphate-P and total-P by CFA and tin(II) chloride reduction.

Keel: en
Alusdokumendid: ISO 15681-2:2018; EN ISO 15681-2:2018
Asendab dokumenti: EVS-EN ISO 15681-2:2005

EVS-EN ISO 4007:2018

Isikukaitsevahendid. Silma- ja näokaitse. Sõnavara
Personal protective equipment - Eye and face protection - Vocabulary (ISO 4007:2018)

This document defines and explains the principal terms used in the field of personal eye and face protection.

Keel: en
Alusdokumendid: ISO 4007:2018; EN ISO 4007:2018
Asendab dokumenti: EVS-EN ISO 4007:2012

17 METROLOOGIA JA MÕÕTMINE. FÜÜSIKALISED NÄHTUSED

CEN ISO/TR 19664:2018

Human response to vibration - Guidance and terminology for instrumentation and equipment for the assessment of daily vibration exposure at the workplace according to the requirements of health and safety (ISO/TR 19664:2017)

The assessment of human exposure to vibration, to both the hand-arm system and the whole body, at the workplace relies on the combined evaluation of both vibration magnitudes and exposure times. Determining these values can employ various instrumentation types and data sources. ISO/TR 19664:2017 provides guidance and explanation of concepts used for the following: - measurement processes; - instrumentation types; - vibration magnitude source.

Keel: en
Alusdokumendid: ISO/TR 19664:2017; CEN ISO/TR 19664:2018

19 KATSETAMINE

CEN ISO/TS 25108:2018

Non-destructive testing - NDT personnel training organizations (ISO/TS 25108:2018)

This document gives requirements and recommendations for non-destructive testing (NDT) training organizations, with the intention of harmonizing and maintaining the general standard of training of NDT personnel for industrial needs. It also establishes the minimum requirements for effective structured training of NDT personnel to ensure eligibility for qualification examinations leading to third-party certification according to recognized standards. NOTE ISO/TS 25107 gives requirements and recommendations for NDT training syllabuses intended for training.

Keel: en
Alusdokumendid: ISO/TS 25108:2018; CEN ISO/TS 25108:2018
Asendab dokumenti: CEN ISO/TR 25108:2006

21 ÜLDKASUTATAVAD MASINAD JA NENDE OSAD

EVS-EN 13001-3-4:2018

Kraanad. Üldine ehitus. Osa 3-4: Masinate piirseisundid ja kõlblikkuse tõendamine. Laagrid
Cranes - General design - Part 3-4: Limit states and proof of competence of machinery - Bearings

This document is to be used together with EN 13001-1 and EN 13001-2 and as such they specify general conditions, requirements and methods to prevent mechanical hazards of cranes by design and theoretical verification. NOTE 1 Specific requirements for particular types of crane are given in the appropriate European Standard for the particular crane type. This document covers bearings in cranes. It is not intended for bearings being part of standard components, e.g. gearboxes, motors - however those bearings shall be designed using load actions from EN 13001-2 and classification parameters of EN 13001-1. NOTE 2 EN 13001-3-7 is under preparation for gears and gearboxes and deals with load actions for bearings in gear boxes. The following is a list of significant hazardous situations and hazardous events that could result in risks to persons during intended use and reasonably foreseeable misuse. Clauses 4 to 7 of this document are necessary to reduce or eliminate risks associated with the following hazards: - exceeding the limits of strength (yield, ultimate, fatigue); - exceeding temperature limits of material or components; - elastic instability of the crane or its parts (buckling, bulging). This document is not applicable to cranes which are manufactured before the date of its publication as an EN and serves as reference base for the European Standards for particular crane types (see Annex D). NOTE EN 13001-3-4 deals only with limit state method in accordance with EN 13001-1.

Keel: en
Alusdokumendid: EN 13001-3-4:2018

23 ÜLDKASUTATAVAD HÜDRO- JA PNEUMOSÜSTEEMID JA NENDE OSAD

EVS-EN 13445-6:2014/A2:2018

Leekkuumutuseta surveanumad. Osa 6: Nõuded keragrafiitmalmist toodetud surveanumate ja survedetailide kavandamisele ja valmistamisele
Unfired pressure vessels - Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron

Muudatus standardile EVS-EN 13445-6:2014

Keel: en
Alusdokumendid: EN 13445-6:2014/A2:2018
Muudab dokumenti: EVS-EN 13445-6:2014+A1:2015

EVS-EN ISO 11299-1:2018

Plastics piping systems for renovation of underground gas supply networks - Part 1: General (ISO 11299-1:2018)

This document specifies the requirements and test methods for plastics piping systems intended to be used for the renovation of underground gas supply networks. It is applicable to pipes and fittings, as manufactured, as well as to the installed lining system. It is not applicable to the existing pipeline or any sprayed coatings or annular filler. This document gives the general requirements common to all relevant renovation techniques.

Keel: en
Alusdokumendid: ISO 11299-1:2018; EN ISO 11299-1:2018
Asendab dokumenti: EVS-EN ISO 11299-1:2013

EVS-EN ISO 11299-2:2018

Plastics piping systems for renovation of underground gas supply networks - Part 2: Lining with continuous pipes (ISO 11299-2:2018)

This document, read in conjunction with ISO 11299-1, specifies requirements and test methods for pipes and fittings which are part of plastics piping systems installed as continuous pipes in the renovation of underground gas supply networks. It is applicable to polyethylene (PE) pipes of three different types: — PE solid wall single layered pipes (nominal outside diameter, dn), including any identification stripes; — PE pipes with co-extruded layers on either or both the outside and inside of the pipe (total outside diameter, dn), as specified in Annex A, where all layers have the same MRS rating; — Coated PE pipes (outside diameter, dn) having a peelable, contiguous, thermoplastics additional layer on the outside of the pipe ("coated pipe"), as described in Annex A. In addition it covers: — jointing of pipe lengths by means of butt fusion; — fabricated and injection-moulded fittings made of PE; It is applicable to PE pipes, fittings and assemblies intended to be used at an operating temperature of 20 °C as the reference temperature. NOTE For other operating temperatures, guidance is given in ISO 4437-5:2014.

Keel: en
Alusdokumendid: ISO 11299-2:2018; EN ISO 11299-2:2018

EVS-EN ISO 11299-3:2018

Plastics piping systems for renovation of underground gas supply networks - Part 3: Lining with close-fit pipes (ISO 11299-3:2018)

This document, in conjunction with ISO 11299-1, specifies requirements and test methods for close-fit lining systems intended to be used for the renovation of gas supply networks. It applies to pipes and fittings, as manufactured, as well as to the installed lining system. It is applicable to polyethylene (PE) pipe of either solid wall single layer or co-extruded layer construction, which is

reduced in the factory or on site to provide a close-fitting independent or interactive pressure pipe liner, as well as associated fittings and joints for the construction of the lining system. This document is not applicable for coated PE pipes having a peelable, contiguous, thermoplastics additional layer on the outside of the pipes. It is applicable to PE pipes, fittings and assemblies intended to be used at an operating temperature of 20 °C as the reference temperature. NOTE For other operating temperatures, guidance is given in ISO 4437-5:2014.

Keel: en
Alusdokumendid: ISO 11299-3:2018; EN ISO 11299-3:2018
Asendab dokumenti: EVS-EN ISO 11299-3:2013

25 TOOTMISTEHNOLOOGIA

EVS-EN 1011-6:2018

Welding - Recommendation for welding of metallic materials - Part 6: Laser beam welding

This document gives general guidance for laser beam welding and associated processes of metallic materials in all forms of product (e.g. cast, wrought, extruded, forged). NOTE Some guidance on laser beam cutting, drilling, surface treatment and cladding is given in Annex F.

Keel: en
Alusdokumendid: EN 1011-6:2018
Asendab dokumenti: EVS-EN 1011-6:2006

EVS-EN 13144:2018

Metallic and other inorganic coatings - Method for quantitative measurement of adhesion by tensile test

This document specifies a quantitative method for the measurement of adhesive strength of metallic and other inorganic coatings applied to metallic, polymer and glass substrates. Typical coatings for which this document applies are metallic coatings such as aluminium, copper, nickel, nickel plus chromium, silver, tin, tin-nickel alloys, zinc, gold as well as other inorganic coatings such as oxides or nitrides, e.g. of aluminium, indium and indium-tin, silicon, niobium, titanium, tungsten, zirconium and others. This document does not apply to certain hot dip, spray and mechanical coatings, for which other standards may apply, e.g. EN ISO 14916 or EN ISO 4624. The measurement is valid if the cohesion and adhesion properties of the adhesive are higher than those of the coating subjected to test.

Keel: en
Alusdokumendid: EN 13144:2018
Asendab dokumenti: EVS-EN 13144:2003

EVS-EN 14587-1:2018

Railway applications - Infrastructure - Flash butt welding of new rails - Part 1: R220, R260, R260Mn, R320Cr, R350HT, R350LHT, R370CrHT and R400HT grade rails in a fixed plant

This document specifies requirements for the approval of a welding process in a fixed plant, together with the requirements for subsequent welding production. It applies to new Vignole railway rails R220, R260, R260Mn, R320Cr, R350HT, R350LHT, R370CrHT and R400HT grade rails of 46 kg/m and above, as contained in EN 13674-1, welded by a flash butt welding process in a fixed plant and intended for use on railway infrastructure. This document applies to the welding of rails into welded strings.

Keel: en
Alusdokumendid: EN 14587-1:2018
Asendab dokumenti: EVS-EN 14587-1:2007

EVS-EN 16602-70-39:2018

Kosmosega seotud toodete kvaliteedi tagamine. Lennuseadmete metallist materjalide keevitus Space product assurance - Welding of metallic materials for flight hardware

This Standard specifies the processing and quality assurance requirements for the different types of metallic welding (manual, automatic, semi-automatic and machine) for space flight applications. This standard can also be used for weld activities on space related ground equipment and development models for flight hardware. The Standard covers all welding processes used for joining metallic materials for space applications. This includes, but is not limited to: - Gas Tungsten Arc Welding (GTAW) / Tungsten Inert Gas (TIG), (process 14) - Gas Metal Arc Welding (GMAW) / Metal Inert Gas (MIG) (process 13) - Plasma Arc Welding (PAW) / Plasma of Transferred Arc (PTA), (process 15) - Electron beam welding (EBW), (process 51) - Laser beam welding (LBW), (process 52) - Friction Stir welding (process 43) - Magnetic Pulse welding (process 442) - Linear friction welding (process 42) - Rotary friction welding (process 42) The specific process numbers mentioned above are listed according to the standard ISO 4063:2009. This Standard does not detail the weld definition phase and welding pre-verification phase, including the derivation of design allowables. This standard may be tailored for the specific characteristic and constraints of a space project in conformance with ECSS-S-ST-00.

Keel: en
Alusdokumendid: ECSS-Q-ST-70-39; EN 16602-70-39:2018

EVS-EN IEC 60974-14:2018

Arc welding equipment - Part 14: Calibration, validation and consistency testing

IEC 60974-14:2018(E) specifies requirements for the verification of arc welding and external monitoring equipment. This document also serves for practical implementation of the verification procedure for arc welding equipment. This document can be

applied at the time of installation and any other times or intervals the user deems appropriate to ensure the equipment is capable of operating to the manufacturer's specification or other specifications deemed applicable by the user.

Keel: en
Alusdokumendid: IEC 60974-14:2018; EN IEC 60974-14:2018
Asendab dokumenti: EVS-EN 50504:2008

EVS-EN IEC 61326-3-2:2018

Mõõtmis-, juhtimis- ja laboratooriumi-elektriseadmed. Elektromagnetilise ühilduvuse nõuded. Osa 3-2: Häiringutaluvusnõuded ohutusega seotud süsteemidele ja ohutuse tagamiseks (talitlusohutuseks) ettenähtud seadmetele. Sätestatud elektromagnetilise keskkonnaga tööstuslikud rakendused

Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment

This part of IEC 61326 covers all equipment within the scope of IEC 61326-1, but is limited to systems and equipment for industrial applications within a specified electromagnetic environment and intended to perform safety functions as defined in IEC 61508 with SIL 1-3. The electromagnetic environments encompassed by this product family standard are industrial, both indoor and outdoor, and based on the requirements of the process industry, specifically chemical/petrochemical/pharmaceutical manufacturing plants using the mitigation measures given in Annex C. The difference between the electromagnetic environment covered by this document compared to the general industrial environment (see IEC 61326-3-1) is due to the mitigation measures employed against electromagnetic phenomena leading to a specified electromagnetic environment with test values that have been proven in practice. The environment of industrial application with a specified electromagnetic environment typically includes the following characteristics: – industrial area with limited access; – limited use of mobile transmitters; – dedicated cables for power supply and control, signal or communication lines; – separation between power supply and control, signal or communication cables; – factory building mostly consisting of metal construction; – overvoltage/lightning protection by appropriate measures (for example, metal construction of the building or use of protection devices); - pipe heating systems driven by AC main power; - no high-voltage substation close to sensitive areas; - presence of CISPR 11 Group 2 ISM equipment using ISM frequencies only with low power; - competent staff; - periodical maintenance of equipment and systems; - mounting and installation guidelines for equipment and systems. Equipment and systems considered as "proven-in-use" according to IEC 61508 or "prior use" according to IEC 61511 are excluded from the scope of this document. Fire alarm systems and security alarm systems intended for protection of buildings are excluded from the scope of this document.

Keel: en
Alusdokumendid: IEC 61326-3-2:2017; EN IEC 61326-3-2:2018
Asendab dokumenti: EVS-EN 61326-3-2:2008

EVS-EN ISO 11148-13:2018

Käeshoitavad mitteelektrilised jõuseadised. Ohutusnõuded. Osa 13: Kinnitusdetailide sissetagumise tööriistad

Hand-held non-electric power tools - Safety requirements - Part 13: Fastener driving tools (ISO 11148-13:2017)

ISO 11148-13:2017 specifies safety requirements for hand-held non-electric power tools (hereinafter referred to as "fastener driving tools") intended for installation of a fastener (see Annex B), forming a mechanical connection or attachment with the workpiece which are for example wood and wood-based materials, plastic materials, fibre materials (loose or compacted), cementitious materials, metals and combinations of these materials. The fastener driving tools for fasteners can be powered by compressed air or combustible gases (which may be ignited by a battery or accumulator) and the energy is transmitted to an impacted element by an intermediary component that does not leave the device. These tools are intended to be used by one operator and supported by the operator's hand or hands, with or without a suspension, e.g. a balancer. ISO 11148-13:2017 is applicable to fastener driving tools in which energy is applied to a loaded fastener for the purpose of driving this into a workpiece. ISO 11148-13:2017 is not applicable to fastener driving tools in which the energy for driving fasteners is drawn from powder-actuated cartridges, hydraulics or from any type of electrical supply. ISO 11148-13:2017 does not deal with special requirements and modifications of hand-held power tools for the purpose of mounting them in a fixture. ISO 11148-13:2017 deals with all significant hazards, hazardous situations or hazardous events relevant to fastener driving tools for fasteners when they are used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer, with the exception of the use of power tools in potentially explosive atmospheres. NOTE ISO 80079-36 gives requirements for non-electrical equipment for potentially explosive atmospheres.

Keel: en
Alusdokumendid: ISO 11148-13:2017; EN ISO 11148-13:2018
Asendab dokumenti: EVS-EN 792-13:2000+A1:2008

EVS-EN ISO 17640:2018

Keevisõmbluste mittepurustav katsetamine. Ultraheliga katsetamine. Meetodid, katsetasemed ja hindamine

Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment (ISO 17640:2018)

See dokument määratleb käsitsi sooritatava ultraheliga katsetamise meetodid metalsetest materjalidest sulakeevitatud liidetele, materjali paksusega 8 mm või rohkem, millel on väike ultraheli sumbuvus (eriti hajuvuse tõttu) katseobjekti temperatuurivahemikus

0 °C kuni 60 °C. Peamiselt on see mõeldud kasutamiseks täieliku läbikeevitusega keevisliidete kontrolliks, mille põhimaterjal ja keevisõmblus on ferriitse struktuuriga. Selles dokumendis toodud materjalipõhised ultraheli väärtused põhinevad terastel, milles on ultraheli levikukiirus (5920 ± 50) m/s pikilainete korral ning (3255 ± 30) m/s ristilainete korral. See dokument määratleb neli katsetaset, millest igaüks vastab defektide avastamise erinevale tõenäosusele. Juhised katsetasemete A, B ja C valikuks on toodud lisas A. See dokument määratleb, et katsetaseme D nõuded, mis on mõeldud kasutamiseks erijuhtude korral, on vastavuses üldnõuetega. Katsetaset D võib kasutada vaid juhul, kui nii on määratud tehnilises spetsifikatsioonis. See hõlmab mitteferriitse struktuuriga metallide katseid, katseid osalise läbikeevitusega liidetel, automatiseeritud seadmetega katseid ning katseid objekti temperatuuridel väljaspool vahemikku 0 °C kuni 60 °C. Seda dokumenti võib kasutada näitude hindamiseks aktsepteerimise otstarbel, kasutades ühte kahest meetodist: a) hindamine, mis põhineb peamiselt signaali näidu pikkusel ning kaja amplituudil; b) hindamine, mis põhineb näidu kirjeldamisel ning selle suuruse hindamisel sondi liigutamisega.

Keel: en, et
Alusdokumendid: ISO 17640:2018; EN ISO 17640:2018
Asendab dokumenti: EVS-EN ISO 17640:2017

27 ELEKTRI- JA SOOJUSENERGEETIKA

EVS-EN 13136:2013+A1:2018

Külmasüsteemid ja soojuspumbad. Rõhuvabastusseadmed ja nendega seotud torustik. Arvutamise meetodid
Refrigerating systems and heat pumps - Pressure relief devices and their associated piping - Methods for calculation

1.1 This European Standard describes the calculation of mass flow for sizing pressure relief devices for components of refrigerating systems. NOTE The term "refrigerating system" used in this European Standard includes heat pumps. 1.2 This European Standard describes the calculation of discharge capacities for pressure relief valves and other pressure relief devices in refrigerating systems including the necessary data for sizing these when relieving to atmosphere or to components within the system at lower pressure. 1.3 This European Standard specifies the requirements for selection of pressure relief devices to prevent excessive pressure due to internal and external heat sources, the sources of increasing pressure (e.g. compressor, heaters, etc.) and thermal expansion of trapped liquid. 1.4 This European Standard describes the calculation of the pressure loss in the upstream and downstream line of pressure relief valves and other pressure relief devices and includes the necessary data. 1.5 This European Standard refers to other relevant standards in Clause 5.

Keel: en
Alusdokumendid: EN 13136:2013+A1:2018
Asendab dokumenti: EVS-EN 13136:2013

EVS-EN 437:2018

Katsetusgaasid. Katsetusrõhud. Tarvitite kategooriad
Test gases - Test pressures - Appliance categories

This document specifies the test gases, test pressures and categories of appliances relative to the use of gaseous fuels of the first, second and third families. It serves as a reference document in the specific standards for appliances that fall within the scope of the Council Directive on the approximation of the laws of Member States concerning gas appliances 2009/142/EC. The standard makes recommendations for the use of the gases and pressures to be applied for the tests. The full procedure will be given in the corresponding appliance standards. NOTE The test gases and the test pressures specified in this standard are in principle intended to be used with all the appliances in order to establish conformity with the corresponding standards. However, the use of some test gases and test pressures may not be appropriate in the following cases: - appliances with nominal heat input greater than 300 kW; - appliances constructed on site; - appliances in which the final design is influenced by the user; - appliances constructed for use with high supply pressures (notably direct use of the saturated vapour pressure). In these cases, the specific appliance standards may specify other test conditions in order to establish compliance with their requirements.

Keel: en
Alusdokumendid: EN 437:2018
Asendab dokumenti: EVS-EN 437:2006+A1:2009

EVS-EN 50597:2018

Energy consumption of vending machines

This document defines methods for the measurement of energy consumption of vending machines, whether or not fitted with refrigerating appliances. The standard applies (but is not limited) to the categories shown in Table 1 of machine types. The following types of vending machine are excluded from this standard: — drink machines dispensing hot and/or cold drinks into cups; — machines with a food heating function; — vending machines operating at temperatures below 0 °C; or — any machine including one or more of these compartments. For verification purposes, it is essential to apply all of the tests specified to a single unit. The tests may also be made individually for the study of a particular characteristic. This standard does not deal with any characteristics of machine design other than energy consumption.

Keel: en
Alusdokumendid: EN 50597:2018
Asendab dokumenti: EVS-EN 50597:2015

EVS-EN ISO 20023:2018

Solid biofuels - Safety of solid biofuel pellets - Safe handling and storage of wood pellets in residential and other small-scale applications (ISO 20023:2018)

This document provides principles and requirements for the safe handling and storage of wood pellets in residential and other small-scale applications. It covers the supply chain from loading of the delivery truck, requirements of delivery trucks, connections to the end-user's store and the delivery process. It also covers the design and construction of pellet storage systems. This document addresses risks of fires, dust explosions, off-gassing, oxygen depletion, damage to appliances and buildings through swelling of pellets and other health risks. It is applicable to wood pellets according to ISO 17225-2.

Keel: en
Alusdokumendid: ISO 20023:2018; EN ISO 20023:2018

EVS-EN ISO 50001:2018

Energiajuhtimissüsteemid. Nõuded koos rakendamisjuhistega
Energy management systems - Requirements with guidance for use (ISO 50001:2018)

See dokument määratleb nõuded energiajuhtimissüsteemi (EJS-i) sisseseadmiseks, elluviimiseks, toimivana hoidmiseks ja parendamiseks. Kavatsetud väljund tagab, et organisatsioon järgib süstemaatilist lähenemisviisi energiatulemuslikkuse ja EJS-i järjepideva parendamise saavutamisel. See dokument a) on kohaldatav kõikidele organisatsioonidele, sõltumata nende tüübist, suurusest, keerukusest, geograafilisest asukohast, organisatsiooni kultuurist või pakutavatest toodetest ja teenustest; b) on kohaldatav organisatsiooni poolt juhitud ja ohjatud tegevustele, mis mõjutavad energiatulemuslikkust; c) on kohaldatav sõltumata tarbitava energia kogusest, kasutusest või liigist; d) nõuab energiatulemuslikkuse järjepideva parendamise näitamist, kuid ei määratle energiatulemuslikkuse parendamise tasemeid, mida saavutada; e) võib olla kasutatud iseseisvalt või joondatud või lõimitud teiste juhtimissüsteemidega. Lisa A pakub juhised selle dokumendi kasutamiseks. Lisa B pakub võrdluse selle väljaande ja eelmise väljaande vahel.

Keel: en, et
Alusdokumendid: EN ISO 50001:2018; ISO 50001:2018
Asendab dokumenti: EVS-EN ISO 50001:2011

29 ELEKTROTEHNIKA

EVS-EN 50068:2018

High-voltage switchgear and controlgear - Gas-filled wrought steel enclosures

This document applies to wrought steel enclosures and their welding. These enclosures are pressurized with dry air, inert gases, for example sulphur hexafluoride or nitrogen or a mixture of such gases, used in indoor and outdoor installations of high-voltage switchgear and controlgear with rated voltages above 1kV, where the gas is used principally for its dielectric and/or arc-quenching properties with rated voltages: - above 1 kV and up to and including 52 kV concerning gas-filled compartments with design pressure higher than 300 kPa relative pressure (gauge); - above 52 kV concerning all gas-filled compartments. The enclosures comprise parts of electrical equipment not necessarily limited to the following examples: - circuit-breakers; - switch-disconnectors; - disconnectors; - earthing switches; - current transformers; - voltage transformers; - surge arrestors; - busbars and connections; - etc. The scope also covers enclosures of pressurized components such as the centre chamber of live tank switchgear, gas-insulated current transformers, etc.

Keel: en
Alusdokumendid: EN 50068:2018
Asendab dokumenti: EVS-EN 50068:2002
Asendab dokumenti: EVS-EN 50068:2002/AC:2007

EVS-EN 50318:2018

Raudteealased rakendused. Vooluvõtusüsteemid. Pantograafi ja kontaktliini vahelise dünaamilise koostoime simulatsiooni kinnitamine
Railway applications - Current collection systems - Validation of simulation of the dynamic interaction between pantograph and overhead contact line

Simulation techniques are used to assess the dynamic interaction between overhead contact lines and pantographs, as part of the prediction of current collection quality. This document specifies functional requirements for the validation of such simulation methods to ensure confidence in, and mutual acceptance of the results of the simulations. This document deals with: - input and output parameters of the simulation; - comparison with line test measurements, and the characteristics of those line tests; - validation of pantograph models; - comparison between different simulation methods; - limits of application of validated methods to assessments of pantographs and overhead contact lines. This document applies to the current collection from an overhead contact line by pantographs mounted on railway vehicles. It does not apply to trolley bus systems.

Keel: en
Alusdokumendid: EN 50318:2018
Asendab dokumenti: EVS-EN 50318:2003

EVS-EN 50341-2-20:2018

Elektriõhuliinid vahelduvpingega üle 1 kV. Osa 2-20: Eesti siseriiklikud erinõuded (SEN)
Overhead electrical lines exceeding AC 1 kV - Part 2-20: National Normative Aspects (NNA) for Estonia (based on EN 50341-1:2012)

Standard EN 50341-1 (osa 1) rakendub Eestis ainult koos selle standardiga EN 50341-2-20, mis sisaldab Eesti siseriiklikke erinõudeid. See standard rakendub kõigile uutele õhuliinidele vahelduvnimipingega üle 1 kV ja ka õhukaablitega madalpingeõhuliinidele (vahelduvnimipingega alla 1 kV). Ehituslikus osas rakendub see ka alalisvooluõhuliinidele, mille elektrilised nõuded on sätestatud projekti erinõuetega.

Keel: en, et
Alusdokumendid: EN 50341-2-20:2018
Asendab dokumenti: EVS-EN 50341-2-20:2015

EVS-EN 50342-1:2015/A1:2018

Lead-acid starter batteries - Part 1: General requirements and methods of test

Amendment for EN 50342-1:2015

Keel: en
Alusdokumendid: EN 50342-1:2015/A1:2018
Muudab dokumenti: EVS-EN 50342-1:2015

EVS-EN 50342-6:2015/A1:2018

Lead-acid starter batteries - Part 6: Batteries for Micro-Cycle Applications

Amendment for EN 50342-6:2015

Keel: en
Alusdokumendid: EN 50342-6:2015/A1:2018
Muudab dokumenti: EVS-EN 50342-6:2015

EVS-EN 61167:2018/A1:2018

Metallhalogeniidlambid. Toimivuse määratlemine
Metal halide lamps - Performance specification

Amendment for EN 61167:2018

Keel: en
Alusdokumendid: IEC 61167:2018/A1:2018; EN 61167:2018/A1:2018
Muudab dokumenti: EVS-EN 61167:2018

EVS-EN IEC 63000:2018

Tehniline dokumentatsioon elektriliste ja elektrooniliste toodete hindamiseks ohtlike ainete piirangu seisukohast
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

IEC 63000:2016 specifies the technical documentation that the manufacturer compiles in order to declare compliance with the applicable substance restrictions

Keel: en
Alusdokumendid: IEC 63000:2016; EN IEC 63000:2018
Asendab dokumenti: EVS-EN 50581:2012

31 ELEKTROONIKA

EVS-EN IEC 60512-1:2018

Connectors for electrical and electronic equipment - Tests and measurements - Part 1: Generic specification

IEC 60512-1:2018 is intended to be used as a basis for tests and measurements specifications for electrical connectors. It provides guidance and reference for tests and measurements within the IEC 60512 series. It includes the description and the practice of the various phases of tests and measurements (preparation, tests and measurements, requirements, documentation), in addition to basic terms and definitions applicable to any part of the IEC 60512 series. This standard shall be used in conjunction with IEC 60512-1-101 and relevant part(s) of series IEC 60512. Part 60512-1-100 provides the list of the existing test and measuring methods published within series IEC 60512. Detail tests and measurements specifications are applicable to electrical connectors and their components (e.g. connector inserts, connector housings, locking mechanisms, contacts and terminations) within the scope of technical committee 48. They may also be used for similar devices when specified in a detail product specification. Detail tests and measurements specifications are used in conjunction with detail product specifications which prescribe the tests to be used, the required degree of severity for each of them and the permissible performance limits. The detail product specification also specifies the deviations in procedures, which may be required when applying a test to the type of connector or its component under consideration, and it further specifies any special procedures which may be required. This fifth edition cancels and replaces the fourth edition, published in 2001. It constitutes a technical revision. This edition includes the following main technical changes with respect to the previous edition: – in Clause 3, only terms relating to the testing are defined, and IEC 61076-1 is referred to for terms of connectors. – Clause 4 (Numbering of tests and measurement specification) is added. – Subclause 5.1.2 (Calibration) is added. – in Clause 6 (Test), test procedure follows IEC 60068-1.

Keel: en
Alusdokumendid: IEC 60512-1:2018; EN IEC 60512-1:2018
Asendab dokumenti: EVS-EN 60512-1:2002

EVS-EN IEC 61051-1:2018

Varistors for use in electronic equipment - Part 1: Generic specification

This part of IEC 61051 is a generic specification and is applicable to varistors with symmetrical voltage-current characteristics for use in electronic equipment. It establishes standard terms, inspection procedures and methods of test for use in sectional and detail specifications for quality assessment or any other purpose. NOTE Detail specifications can be specifications within the IEC system, another specification system linked to IEC, or specified by the manufacturer or user. The drafting of a complete detail specification by IEC technical committee 40, if required, follows the rules described in Annex A.

Keel: en
Alusdokumendid: IEC 61051-1:2018; EN IEC 61051-1:2018
Asendab dokumenti: EVS-EN 61051-1:2008

EVS-EN IEC 62239-1:2018

Process management for avionics - Management plan - Part 1: Preparation and maintenance of an electronic components management plan

IEC 62239-1:2018 defines the requirements for developing an electronic components management plan (ECMP) to guarantee to customers that all of the electronic components in the equipment of the plan owner are selected and applied in controlled processes compatible with the end application and that the technical requirements detailed in Clause 4 are accomplished. In general, the plan owner of a complete electronic components management plan (ECMP) is the avionics original equipment manufacturer (OEM). This first edition cancels and replaces IEC TS 62239-1 published in 2015. This edition includes the following significant technical changes with respect to the previous edition: a) added references to SAE EIA-STD-4899, IECQ OD 3702, IECQ OD 3407-1, IEC TR 62240-2, IECQ component schemes, SAE AS6081, SAE AS6171. GEIA-STD-0005-1 GEIA STD 0008; b) replaced Annex C (which was transferred into IEC TR 62240-2) with a cross-reference table to SAE EIASTD4899 rev C clauses/ subclauses for guidance purposes only; c) added the analysis of component technical erratum d) updated Bibliography and reference documents

Keel: en
Alusdokumendid: IEC 62239-1:2018; EN IEC 62239-1:2018

EVS-EN IEC 63000:2018

Tehniline dokumentatsioon elektriliste ja elektrooniliste toodete hindamiseks ohtlike ainete piirangu seisukohast
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IEC 63000:2016 specifies the technical documentation that the manufacturer compiles in order to declare compliance with the applicable substance restrictions

Keel: en
Alusdokumendid: IEC 63000:2016; EN IEC 63000:2018
Asendab dokumenti: EVS-EN 50581:2012

33 SIDETEHNIKA

EVS-EN IEC 60728-113:2018/AC:2018

Cable networks for television signals, sound signals and interactive services - Part 113: Optical systems for broadcast signal transmissions loaded with digital channels only

Corrigendum for EN IEC 60728-113:2018

Keel: en
Alusdokumendid: IEC 60728-113:2018/COR1:2018; EN IEC 60728-113:2018/AC:2018-12
Parandab dokumenti: EVS-EN IEC 60728-113:2018

EVS-EN IEC 61326-3-2:2018

Mõõtmis-, juhtimis- ja laboratooriumi-elektriseadmed. Elektromagnetilise ühilduvuse nõuded. Osa 3-2: Häiringutaluvusnõuded ohutusega seotud süsteemidele ja ohutuse tagamiseks (talitlusohutuseks) ettenähtud seadmetele. Sätestatud elektromagnetilise keskkonnaga tööstuslikud rakendused
Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment

This part of IEC 61326 covers all equipment within the scope of IEC 61326-1, but is limited to systems and equipment for industrial applications within a specified electromagnetic environment and intended to perform safety functions as defined in IEC 61508 with SIL 1-3. The electromagnetic environments encompassed by this product family standard are industrial, both indoor and outdoor, and based on the requirements of the process industry, specifically chemical/petrochemical/pharmaceutical manufacturing plants using the mitigation measures given in Annex C. The difference between the electromagnetic environment covered by this document compared to the general industrial environment (see IEC 61326-3-1) is due to the mitigation measures employed against electromagnetic phenomena leading to a specified electromagnetic environment with test values that have been

proven in practice. The environment of industrial application with a specified electromagnetic environment typically includes the following characteristics: – industrial area with limited access; – limited use of mobile transmitters; – dedicated cables for power supply and control, signal or communication lines; – separation between power supply and control, signal or communication cables; – factory building mostly consisting of metal construction; – overvoltage/lightning protection by appropriate measures (for example, metal construction of the building or use of protection devices); - pipe heating systems driven by AC main power; - no high-voltage substation close to sensitive areas; - presence of CISPR 11 Group 2 ISM equipment using ISM frequencies only with low power; - competent staff; - periodical maintenance of equipment and systems; - mounting and installation guidelines for equipment and systems. Equipment and systems considered as "proven-in-use" according to IEC 61508 or "prior use" according to IEC 61511 are excluded from the scope of this document. Fire alarm systems and security alarm systems intended for protection of buildings are excluded from the scope of this document.

Keel: en
Alusdokumendid: IEC 61326-3-2:2017; EN IEC 61326-3-2:2018
Asendab dokumenti: EVS-EN 61326-3-2:2008

35 INFOTEHNOLOOGIA

CEN/TS 17234:2018

Intelligent transport systems - eSafety - eCall: Tests to enable PSAPs to demonstrate conformance and performance

The scope of this document is to define conformance and performance tests to demonstrate whether a PSAPis in compliance with the eCall Regulations and Standards. This deliverable: a) identifies the MANDATORY tests specified within EN 16454 that are appropriate for a PSAP to demonstrate its conformance to EN 16454 in accordance with European Commission Delegated Regulation (EU) No 305/2013; b) specifies tests to verify that a PSAP has procedures in place to identify and decode registered optional additional data concepts (3.5) included in the Minimum set of data (3.15); c) provides OPTIONAL tests to measure aspects of PSAP performance in handling aspects of eCall.

Keel: en
Alusdokumendid: CEN/TS 17234:2018

CEN/TS 17249-3:2018

Intelligent transport systems - eSafety - Part 3: eCall for Coaches and buses

In respect of 112-eCall (operating requirements defined in EN 16072), this document defines additional specifications for the provision of eCall for coaches and buses. As with the existing provisions for eCall for Category M1/N1 vehicles, these are specified within the paradigm of being OEM fit equipment supplied with new vehicles. NOTE 1 The provision of eCall for vehicles via the aftermarket (post sale and registration) will be the subject of other work, and in respect of the operational requirements for any such aftermarket solutions for coaches and buses, will use the specifications of this document as a reference point. NOTE 2 The 112-eCall paradigm involves a direct call from the vehicle to the most appropriate PSAP. (Third party service provision by comparison, involves the support of an intermediary third party service provider before the call is forwarded to the PSAP.) The specifications herein relate only to the provision of 112-eCall or IMS-112-eCall, and do not provide specifications for third party service provision of eCall, although in the case of 112-eCall or IMS-112-eCall for coaches, links to third party provision of service aspects (such as passenger lists) may be required.

Keel: en
Alusdokumendid: CEN/TS 17249-3:2018

CEN/TS 17262:2018

Personal identification - Robustness against biometric presentation attacks - Application to European Automated Border Control

This document is an application profile for the International Standard ISO/IEC 30107. It provides requirements and recommendations for the implementation of Automated Border Control (ABC) systems in Europe with Presentation Attack Detection (PAD) capability. This document covers the evaluation of countermeasures from the Biometrics perspective as well as privacy, data protection and usability aspects. Technical descriptions of countermeasures are out of scope. Enrolment, issuance and verification applications of electronic Machine Readable Travel Documents (eMRTD) other than border control are not in scope. In particular, presentation attacks at enrolment are out of scope. The biometric reference data can be stored in an eMRTD and/or in a database of registered travellers. This document covers: - biometric impostor attacks and - biometric concealer attacks in a watchlist scenario. This document addresses PAD for facial and fingerprint biometrics only.

Keel: en
Alusdokumendid: CEN/TS 17262:2018

EVS-EN 16602-80:2018

Space product assurance - Software product assurance

This Standard defines a set of software product assurance requirements to be used for the development and maintenance of software for space systems. Space systems include manned and unmanned spacecraft, launchers, payloads, experiments and their associated ground equipment and facilities. Software includes the software component of firmware. This Standard also applies to the development or reuse of non-deliverable software which affects the quality of the deliverable product or service provided by a space system, if the service is implemented by software. ECSS-Q-ST-80 interfaces with space engineering and management, which are addressed in the Engineering (-E) and Management (-M) branches of the ECSS System, and explains how they relate to the software product assurance processes. This standard may be tailored for the specific characteristic and constraints of a space project in conformance with ECSS-S-ST-00. Tailoring of this Standard to a specific business agreement or project, when software product assurance requirements are prepared, is also addressed in clause 4.3.

Keel: en
Alusdokumendid: ECSS-Q-ST-80C Rev.1 DIR1; EN 16602-80:2018

45 RAUDTEETEHNIKA

EVS-EN 14198:2016+A1:2018

Raudteealased rakendused. Pidurdamine. Nõuded veduriga veetavate rongide pidurisüsteemidele
Railway applications - Braking - Requirements for the brake system of trains hauled by locomotives

This European Standard specifies basic requirements for the braking of trains hauled by locomotives: - For trains hauled by locomotives and intended for use in general operation each vehicle is fitted with the traditional brake system with a brake pipe compatible with the UIC brake system. NOTE This ensures technical compatibility of the brake function between vehicles of various origins in a train (see 5.4). - For trains hauled by locomotives and intended for use in fixed or predefined formation, the requirements on the vehicle and the train are necessary. In the case of a UIC brake system, this standard applies; if not, the EN 16185 series or the EN 15734 series applies. If concerned, the UIC brake architecture described in this standard (see 5.4) can be used for brakes for multiple unit train and high speed trains and urban rail described in the EN 13452 series, the EN 16185 series and the EN 15734 series. This European Standard also takes into account electrical and electronic control functions and additional brake systems like dynamic brakes and adhesion independent brakes. The brake system requirements, which are specific for on-track machines are set out in EN 14033-1. This European Standard does not apply to Urban Rail rolling stock braking system, which is specified by EN 13452-1.

Keel: en
Alusdokumendid: EN 14198:2016+A1:2018
Asendab dokumenti: EVS-EN 14198:2016

EVS-EN 14531-1:2015+A1:2018

Raudteealased rakendused. Meetodid aeglustus- ja peatumisteekonna ning seisupidurduse arvutamiseks. Osa 1: Rongi või üksikveeremi keskmiste väärtuste arvutamiseks kasutatavad üldalgoritmid
Railway applications - Methods for calculation of stopping and slowing distances and immobilization braking - Part 1: General algorithms utilizing mean value calculation for train sets or single vehicles

This European Standard describes general algorithms for the brake performance calculations to be used for all types of train sets, units or single vehicles, including high speed, locomotive and passenger coaches, conventional vehicles and wagons. This European Standard does not specify the performance requirements. It enables the estimation and/or comparison by calculation of the various aspects of the performance: stopping or slowing distances, dissipated energy, power, force calculations and immobilization braking. If it is required to validate, verify or assess braking performance it is recommended that a more detailed calculation is performed in accordance with EN 14531-2, i.e. a step by step calculation. This European Standard contains generic examples of the calculation of brake forces for individual brake equipment types and calculation of stopping distance and immobilization braking relevant to a train (see Annexes C and D).

Keel: en
Alusdokumendid: EN 14531-1:2015+A1:2018
Asendab dokumenti: EVS-EN 14531-1:2015

EVS-EN 15877-1:2012+A1:2018

Raudteealased rakendused. Raudteeveeremi märgistus. Osa 1: Kaubavagunid
Railway applications - Marking on railway vehicles - Part 1: Freight wagons

This European Standard identifies the information required to be marked on freight wagons, or parts of freight wagons, relating to their technical, operational and maintenance characteristics. It defines the characteristics of these markings, the requirements pertaining to their presentation, their shape and position on a vehicle and their meaning. Some markings are accompanied with a note(s) where appropriate. Tank barrel manufacturers' design criteria, test and product specification plates have not been considered in this European Standard as they are specified in EN 12561-1:2011, Railway applications - Tank wagons - Part 1: Identification plates for tank wagons for the carriage of dangerous goods. Dangerous Goods markings have not been considered in this European Standard where fully specified in RID (dimensions, colour, location and form). Where markings are not fully specified in RID they are included in this standard

Keel: en
Alusdokumendid: EN 15877-1:2012+A1:2018
Asendab dokumenti: EVS-EN 15877-1:2012

EVS-EN 16186-1:2015+A1:2018

Raudteealased rakendused. Juhiruum. Osa 1: Antropomeetrilised andmed ja nähtavus
Railway applications - Driver's cab - Part 1: Anthropometric data and visibility

This part of EN 16186 applies to driver's cabs of Electrical Multiple Unit (EMU), Diesel Multiple Unit (DMU), railcars, locomotives and driving trailers. NOTE 1 This standard applies to rolling stock in the scope of the Directive 2008/57/EC. This part of EN 16186 applies to driver's desks installed on the left, on the right, or in a central position in the driver's cab. For OTMs, see EN 14033-1 and EN 15746-1. This part of EN 16186 defines: - anthropometric data; - visibility conditions from the driver's cab, including

forward visibility and the reference positions of line-side signals to be considered; - assessment methods. NOTE 2 Due to railway systems constraints the level of visibility provided to the persons outside the defined anthropometric range may vary. It is up to the operator's safety management system to address the potential restriction of front visibility, if the driver uses extreme seat positions combined with extreme body heights. The actual seating and positioning habits of drivers regarding visibility, whether drivers are in or outside the range of anthropometric data of this standard is outside the scope of this document. This standard is not intended to be applicable for tramways, metros and light rail vehicles.

Keel: en
Alusdokumendid: EN 16186-1:2014+A1:2018
Asendab dokumenti: EVS-EN 16186-1:2015

EVS-EN 16186-3:2016+A1:2018

Raudteealased rakendused. Juhikabiin. Osa 3: Näidikute kujundus
Railway applications - Driver's cab - Part 3: Design of displays

This European Standard specifies all necessary design rules and associated assessment criteria as well as guidance concerning the design of information and the corresponding user interfaces of driver's cabs of EMU, DMU, Railcars, Locomotives and Driving trailers. NOTE 1 This standard applies to rolling stock in the scope of the Directive 2008/57/EC. It considers the tasks the driver has to carry out and human factors. This standard specifies how information is arranged and displayed. It is explicitly applicable to display applications like TRD, ETD, CCD and TDD and may be completed by the CLC/TS 50459 series. This standard is not applicable to legacy ATP systems. If requirements in this standard are in conflict with the ERA DMI document (ERA_ERTMS_015560) the requirements of the ERA DMI document should prevail for the CCD ETCS application. NOTE 2 For resolving any discrepancies (e.g. 5.4.2.3) ERA is expected to harmonize the usage philosophy of the ERA DMI with this standard. All assessments based on the normative requirements of this standard are applicable mainly to - symbols provided by Annex A, - arrangement of screen areas conform with Figure 1 (generic organization of information), - colours, fonts, - audible information. This standard is applicable to the following aspects: - legibility and intelligibility of displayed information: general rules concerning the layout of information on the displays, including character size and spacing; - definition of harmonized colours, symbols, etc.; - definition of harmonized principles for the command interface (by physical or touchscreen buttons): size, symbols, reaction time, way to give feedback to the driver, etc.; - general arrangements (dialogue structures, sequences, layout philosophy, colour philosophy), symbols, audible information, data entry arrangements. NOTE 3 If this standard deals with how information can be given for operation and in degraded situations, it does not define operating rules and degraded situations. This standard does not request any safety requirement related with displayed information. This standard specifies minimum requirements and does not prevent more complex solutions. Requirements describing the functions using the display are out of scope of this standard. "This standard is not intended to be applicable for tramway, metros and light rail vehicles."

Keel: en
Alusdokumendid: EN 16186-3:2016+A1:2018
Asendab dokumenti: EVS-EN 16186-3:2016

49 LENNUNDUS JA KOSMOSETEHNIKA

EVS-EN 16602-70-39:2018

Kosmosega seotud toodete kvaliteedi tagamine. Lennuseadmete metallist materjalide keevitus
Space product assurance - Welding of metallic materials for flight hardware

This Standard specifies the processing and quality assurance requirements for the different types of metallic welding (manual, automatic, semi-automatic and machine) for space flight applications. This standard can also be used for weld activities on space related ground equipment and development models for flight hardware. The Standard covers all welding processes used for joining metallic materials for space applications. This includes, but is not limited to: - Gas Tungsten Arc Welding (GTAW) / Tungsten Inert Gas (TIG), (process 14) - Gas Metal Arc Welding (GMAW) / Metal Inert Gas (MIG) (process 13) - Plasma Arc Welding (PAW) / Plasma of Transferred Arc (PTA), (process 15) - Electron beam welding (EBW), (process 51) - Laser beam welding (LBW), (process 52) - Friction Stir welding (process 43) - Magnetic Pulse welding (process 442) - Linear friction welding (process 42) - Rotary friction welding (process 42) The specific process numbers mentioned above are listed according to the standard ISO 4063:2009. This Standard does not detail the weld definition phase and welding pre-verification phase, including the derivation of design allowables. This standard may be tailored for the specific characteristic and constraints of a space project in conformance with ECSS-S-ST-00.

Keel: en
Alusdokumendid: ECSS-Q-ST-70-39; EN 16602-70-39:2018

EVS-EN 16602-80:2018

Space product assurance - Software product assurance

This Standard defines a set of software product assurance requirements to be used for the development and maintenance of software for space systems. Space systems include manned and unmanned spacecraft, launchers, payloads, experiments and their associated ground equipment and facilities. Software includes the software component of firmware. This Standard also applies to the development or reuse of non-deliverable software which affects the quality of the deliverable product or service provided by a space system, if the service is implemented by software. ECSS-Q-ST-80 interfaces with space engineering and management, which are addressed in the Engineering (-E) and Management (-M) branches of the ECSS System, and explains how they relate to the software product assurance processes. This standard may be tailored for the specific characteristic and constraints of a space project in conformance with ECSS-S-ST-00. Tailoring of this Standard to a specific business agreement or project, when software product assurance requirements are prepared, is also addressed in clause 4.3.

Keel: en
Alusdokumendid: ECSS-Q-ST-80C Rev.1 DIR1; EN 16602-80:2018

EVS-EN 16603-10-02:2018

Space engineering - Verification

This Standard establishes the requirements for the verification of a space system product. It defines the fundamental concepts of the verification process, the criteria for defining the verification strategy and specifies the requirements for the implementation of the verification programme. It includes also the list of the expected documentation (i.e. Document requirements definitions, DRDs). This Standard is intended to apply to different products at different levels from a single equipment to the overall system. Discipline related verification aspects are complemented in Standards specific to those disciplines. For verification process for SW the following standards are considered fully sufficient for development of these items: - ECSS-E-ST-40 Space engineering - Software - ECSS-Q-ST-80 Space product assurance - Software product assurance Detailed requirements for Testing are covered in the ECSS E-ST-10-03. This standard does not specifically address Validation of space products as a separate process, since product Verification is performed against requirements that also address the suitability of the product to fulfil the needs of its intended use. As such, Validation is achieved through the Verification process provided adequate requirements are placed on the product. It is recognised that testing and analysis also occur during the product development process, but they are not addressed by this standard as they are not formal requirement verification activities in the sense of the customer-supplier relationship. The guidelines on verification are provided in the associated handbook ECSS-E-HB-10-02A. The requirements on the systems engineering process are gathered in ECSS-E-ST-10 "System Engineering"; specific aspects of the SE process are further elaborated in dedicated standards, in particular: ECSS-E-ST-10-06 "Technical Specification", ECSS-E-ST-10-02 "Verification" (the present standard), and ECSS-E-ST-10-03 "Testing". These standards are based on the same principles, process and documentation model. The applicability of each these standards can therefore not be considered in isolation from the others This standard may be tailored for the specific characteristic and constraints of a space project in conformance with ECSS-S-ST-00.

Keel: en
Alusdokumendid: ECSS-E-ST-10-02C; EN 16603-10-02:2018
Asendab dokumenti: EVS-EN 14725:2004

EVS-EN 2813:2018

Aerospace series - Aluminium alloy AL-P-6061- - T6 - Drawn tube for pressure applications - 0,6 mm ≤ a ≤ 12,5 mm

This document specifies the requirements relating to: Aluminium alloy AL-P-6061- T6 Drawn tube for pressure applications 0,6 mm ≤ a ≤ 12,5 mm for aerospace applications

Keel: en
Alusdokumendid: EN 2813:2018

EVS-EN 3745-411:2018

Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 411: Resistance to fluids

This European Standard specifies two methods of determining the fluid resistance of a fibre optic interconnection device. It shall be used together with EN 3745-100 and EN 3909.

Keel: en
Alusdokumendid: EN 3745-411:2018
Asendab dokumenti: EVS-EN 3745-411:2007

EVS-EN 3745-506:2018

Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 506: Impact resistance

This document specifies a method to determine the ability of an optical fibre or cable to withstand impact under specified environmental conditions.

Keel: en
Alusdokumendid: EN 3745-506:2018
Asendab dokumenti: EVS-EN 3745-506:2009

EVS-EN 4611-004:2018

Aerospace series - Cables, electrical, for general purpose, single and multicore assembly - XLETFE Family - Part 004: Tin plated copper - Operating temperatures, between - 65 °C and 135 °C - Dual extruded wall for open applications - UV laser printable - Product standard

This European Standard specifies the characteristics of UV laser printable, tin plated conductor electrical cables Crosslinked Ethylene Tetra Fluoro Ethylene co-polymer (XLETFE) family for use in the on-board electrical systems of aircraft operating at temperatures between - 65 °C and 135 °C. The voltage rating is 600 V rms at sea level. This insulation system has been used in aerospace applications using 115 V (phase-to-neutral) 400 Hz and 28 Vdc. Verification of the suitability of cables for use in other electrical systems is the responsibility of the user. These cables are suitable for airframe use although the use of additional protection against mechanical abuse may be necessary in some applications. In case of conflict between this standard and other referenced documents the requirements of this standard shall take precedence.

Keel: en
Alusdokumendid: EN 4611-004:2018
Asendab dokumenti: EVS-EN 4611-004:2012

EVS-EN 4641-106:2018

Aerospace series - Cables, optical, 125 µm diameter cladding - Part 106: Semi-loose structure 62,5/125 µm GI fibre nominal 0,9 mm outside diameter - Product standard

This document specifies the general characteristics, conditions for qualification, acceptance and quality assurance for a fibre optic cable with a 62,5/125 µm, MM fibre core, and 900 µm outside cable diameter and of semi-loose buffer construction for "inside avionics box" equipment fibre harnessing.

Keel: en
Alusdokumendid: EN 4641-106:2018

EVS-EN 4641-201:2018

Aerospace series - Cables, optical, 125 µm diameter cladding - Part 201: Semi-loose structure 9/125 µm SM fibre nominal 1,8 mm outside diameter - Product standard

This document specifies the general characteristics, conditions for qualification, acceptance and quality assurance for a fibre optic cable with a 9/125 µm, SM fibre core, and 1,8 µm outside cable diameter and of semi loose buffer construction.

Keel: en
Alusdokumendid: EN 4641-201:2018

EVS-EN 4641-202:2018

Aerospace series - Cables, optical, 125 µm diameter cladding - Part 202: Semi-loose, ruggedized simplex construction 9/125 µm SM fibre nominal 2,74 mm outside diameter - Product standard

This European product Standard specifies the general characteristics, conditions for qualification, acceptance and quality assurance for a fibre optic cable with a 9/125 µm. Single mode fibre core, 2,74 mm outside cable diameter and of semi-loose construction. The basic construction is the cable defined in EN 4641-102 with added sheaths for ruggedized usages.

Keel: en
Alusdokumendid: EN 4641-202:2018

EVS-EN 4726:2018

Aerospace series - Acceptance parameters of aesthetical variations for all visible equipment installed in aircraft cabins under all contractual variations

This document defines the inspection rules and the cosmetic acceptance criteria for surfaces of aircraft cabin equipment. Surfaces will be considered under the aspects of technical feasibility of the industrial design. This document outlines the framework between airlines, supplier and OEMs with regard to cosmetic issues. This document aims to: a) provide the supplier or manufacturer with quality criteria, which need to be met during the production, testing- and quality-inspection-process. b) guide airline-, OEM- and supplier-quality assurance with a description of cosmetic standards for following inspections: - supplier internal QA inspection; - first article inspection; - source inspection; - incoming inspection; - final assembly line, cabin inspection; - customer presentation.

Keel: en
Alusdokumendid: EN 4726:2018
Asendab dokumenti: EVS-EN 4726:2015

EVS-EN 4730:2018

Aerospace series - Anthropometric dimensioning of aircraft seats

This document describes the application of anthropometric data for the dimensioning of aircraft passenger seats. The focus is on the use of statistical parameters of anthropometrical measurements as given in CEN ISO/TR 7250-2 and similar sources. Even if methods described in this document might be applicable for feasibility and safety issues the scope of this document is design for comfort. The aim of this document is to give advice to designers to include methods of human-centred design into the design of aircraft seats.

Keel: en
Alusdokumendid: EN 4730:2018

EVS-EN IEC 62239-1:2018

Process management for avionics - Management plan - Part 1: Preparation and maintenance of an electronic components management plan

IEC 62239-1:2018 defines the requirements for developing an electronic components management plan (ECMP) to guarantee to customers that all of the electronic components in the equipment of the plan owner are selected and applied in controlled processes compatible with the end application and that the technical requirements detailed in Clause 4 are accomplished. In general, the plan owner of a complete electronic components management plan (ECMP) is the avionics original equipment manufacturer (OEM). This first edition cancels and replaces IEC TS 62239-1 published in 2015. This edition includes the following significant technical changes with respect to the previous edition: a) added references to SAE EIA-STD-4899, IECQ OD 3702, IECQ OD 3407-1, IEC TR 62240-2, IECQ component schemes, SAE AS6081, SAE AS6171. GEIA-STD-0005-1 GEIA STD 0008; b) replaced Annex C (which was transferred into IEC TR 62240-2) with a cross-reference table to SAE EIASTD4899 rev C clauses/ subclauses for guidance purposes only; c) added the analysis of component technical erratum d) updated Bibliography and reference documents

Keel: en

Alusdokumendid: IEC 62239-1:2018; EN IEC 62239-1:2018

53 TÕSTE- JA TEISALDUS-SEADMED

EVS-EN 13001-3-4:2018

Kraanad. Üldine ehitus. Osa 3-4: Masinate piirseisundid ja kõlblikkuse tõendamine. Laagrid
Cranes - General design - Part 3-4: Limit states and proof of competence of machinery - Bearings

This document is to be used together with EN 13001-1 and EN 13001-2 and as such they specify general conditions, requirements and methods to prevent mechanical hazards of cranes by design and theoretical verification. NOTE 1 Specific requirements for particular types of crane are given in the appropriate European Standard for the particular crane type. This document covers bearings in cranes. It is not intended for bearings being part of standard components, e.g. gearboxes, motors - however those bearings shall be designed using load actions from EN 13001-2 and classification parameters of EN 13001-1. NOTE 2 EN 13001-3-7 is under preparation for gears and gearboxes and deals with load actions for bearings in gear boxes. The following is a list of significant hazardous situations and hazardous events that could result in risks to persons during intended use and reasonably foreseeable misuse. Clauses 4 to 7 of this document are necessary to reduce or eliminate risks associated with the following hazards: - exceeding the limits of strength (yield, ultimate, fatigue); - exceeding temperature limits of material or components; - elastic instability of the crane or its parts (buckling, bulging). This document is not applicable to cranes which are manufactured before the date of its publication as an EN and serves as reference base for the European Standards for particular crane types (see Annex D). NOTE EN 13001-3-4 deals only with limit state method in accordance with EN 13001-1.

Keel: en
Alusdokumendid: EN 13001-3-4:2018

EVS-EN 16842-6:2018

Tööstuslikud mootorkärud. Nähtavus. Katsemeetodid ja kontrollimine. Osa 6: Juhiistmega vastukaalutõstukid ja maastikul kasutatavad kahveltõstukid kandevõimega üle 10 000 kg
Powered industrial trucks - Visibility - Test methods and verification - Part 6: Sit-on counterbalance trucks and rough terrain masted trucks greater than 10 000 kg capacity

This document specifies the requirements and test procedures for 360° visibility of sit-on self-propelled industrial counterbalance trucks and rough terrain masted trucks (herein after referred to as trucks) without a load, with a capacity greater than 10 000 kg in accordance with ISO 5053-1 and it is intended to be used in conjunction with EN 16842-1. Where specific requirements in this part are modified from the general requirements in EN 16842-1, the requirements of this part are truck specific and to be used for sit-on self-propelled industrial counterbalance trucks and rough terrain masted trucks with a capacity greater than 10 000 kg. This part of EN 16842 deals with all significant hazards, hazardous situations or hazardous events, relevant to the visibility of the operator for applicable machines when used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer.

Keel: en
Alusdokumendid: EN 16842-6:2018

EVS-EN 16842-7:2018

Tööstuslikud mootorkärud. Nähtavus. Katsemeetodid ja kontrollimine. Osa 7: Muutlaadeulatusega ja lükandmastiga konteinertõstukid, mis käitlevad konteinereid pikkusega 6 m ja rohkem
Powered industrial trucks - Visibility - Test methods and verification - Part 7: Variable-reach and masted container trucks handling freight containers of 6 m (20 ft) length and longer

This document specifies the requirements and test procedures for 360° visibility of sit-on self-propelled variable-reach trucks and masted container trucks (herein after referred to as trucks) without a load, specifically designed for the transport of freight containers of 6 m (20 ft) length and longer, in accordance with ISO 5053 1, equipped with a spreader and it is intended to be used in conjunction with EN 16842-1. Where specific requirements in this part are modified from the general requirements in EN 16842-1, the requirements of this part are truck specific and to be used for sit-on self-propelled variable-reach trucks and masted trucks designed for transport of freight containers of 6 m (20 ft) length and longer. This part of EN 16842 deals with all significant hazards, hazardous situations or hazardous events, relevant to the visibility of the operator for applicable machines when used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer. This standard does not apply to trucks equipped with forks.

Keel: en
Alusdokumendid: EN 16842-7:2018

55 PAKENDAMINE JA KAUPADE JAOTUSSÜSTEEMID

EVS-EN 50597:2018

Energy consumption of vending machines

This document defines methods for the measurement of energy consumption of vending machines, whether or not fitted with refrigerating appliances. The standard applies (but is not limited) to the categories shown in Table 1 of machine types. The following types of vending machine are excluded from this standard: — drink machines dispensing hot and/or cold drinks into cups; — machines with a food heating function; — vending machines operating at temperatures below 0 °C; or — any machine including one or more of these compartments. For verification purposes, it is essential to apply all of the tests specified to a single

unit. The tests may also be made individually for the study of a particular characteristic. This standard does not deal with any characteristics of machine design other than energy consumption.

Keel: en
Alusdokumendid: EN 50597:2018
Asendab dokumenti: EVS-EN 50597:2015

59 TEKSTIILI- JA NAHATEHNOLOOGIA

EVS-EN 17096:2018

Geosünteedid. Katsemeetod HDPE geotõkke kalestumise mooduli määramiseks
Geosynthetics - Test method for the determination of the strain hardening modulus of PE-HD geosynthetic barriers

This document specifies a test method for the measurement of the strain hardening modulus which is used as a measure for the resistance to slow crack growth of polyethylene. The strain hardening modulus is obtained from true stress versus draw ratio curves on PE-HD geosynthetic barrier samples. This standard specifies how measurement is performed and how the strain hardening modulus is determined. Details of the required equipment, precision and sample preparations are given. This test method is suitable for all PE-HD types of GBR-P.

Keel: en
Alusdokumendid: EN 17096:2018

EVS-EN 17117-1:2018

Rubber or plastics-coated fabrics - Mechanical test methods under biaxial stress states - Part 1: Tensile stiffness properties

This document describes methods of test using biaxial stress states for the determination of the tensile stiffness properties of biaxially oriented coated fabrics (properties along anisotropic directions, such as the weft and warp yarns for woven based coated fabrics, or along the courses and wales of knitted based coated fabrics). Other mechanical properties (such as pattern compensation values, shear stiffness, and strength) will be described in other parts.

Keel: en
Alusdokumendid: EN 17117-1:2018

EVS-EN ISO 32100:2018

Rubber- or plastics-coated fabrics - Physical and mechanical tests - Determination of flex resistance by the flexometer method (ISO 32100:2018)

This document specifies a test method for determining the flex resistance of rubber- or plastics- coated fabrics in the folded condition. The test method is applicable only to products which can be clamped in the test apparatus used and to products with which the fold made in the test specimen can be caused to move back and forth along the specimen during the test. The appearance of the test specimen, after completion of either the flex number (see 3.1) or a specified number of flex cycles, is taken as a measure of the flex resistance in the folded condition.

Keel: en
Alusdokumendid: ISO 32100:2018; EN ISO 32100:2018
Asendab dokumenti: EVS-EN ISO 32100:2011

71 KEEMILINE TEHNOLOOGIA

EVS-EN 14885:2018

Chemical disinfectants and antiseptics - Application of European Standards for chemical disinfectants and antiseptics

This European Standard specifies the European Standards to which products have to conform in order to support the claims for microbicidal activity which are referred to in this European Standard. This European Standard also specifies terms and definitions which are used in European Standards. It is applicable to products for which activity is claimed against the following microorganisms: vegetative bacteria (including mycobacteria and Legionella), bacterial spores, yeasts, fungal spores and viruses (including bacteriophages). It is intended to: a) enable manufacturers of products to select the appropriate standards to be used in order to provide data which support their claims for a specific product; b) enable users of the product to assess the information provided by the manufacturer in relation to the use for which they intend to use the product; c) assist regulatory authorities in assessing claims made by the manufacturer or by the person responsible for placing the product on the market. It is applicable to products to be used in the area of human medicine, the veterinary area and in food, industrial, domestic and institutional areas. In the area of human medicine, it is applicable to chemical disinfectants and antiseptics to be used in areas and situations where disinfection or antisepsis is medically indicated. Such indications occur in patient care - in hospitals, in community medical facilities and dental institutions, - in clinics of schools, of kindergartens and of nursing homes, - and may also occur in the workplace and in the home. It may also include services such as in laundries and kitchens supplying products directly for the patient. In the veterinary area it is applicable to chemical disinfectants and antiseptics to be used in the areas of breeding, husbandry, veterinary care facilities, production, transport and disposal of animals. It is not applicable to chemical disinfectants used in the food chain following death and entry to the processing industry. In food, industrial, domestic and institutional areas it is applicable to chemical disinfectants and antiseptics to be used in processing, distribution and retailing of food of animal or vegetable origin. It is also applicable to products for all public areas where disinfection is not medically indicated (homes, catering, schools, nurseries, transports, hotels, offices etc.) and products used in packaging, biotechnology, pharmaceutical, cosmetic etc. industries. This European Standard is also applicable to active substances and products under development for which no area of application has

yet been specified. This European Standard does not refer to methods for testing the toxicological and ecotoxicological properties of products or active substances.

Keel: en
Alusdokumendid: EN 14885:2018
Asendab dokumenti: EVS-EN 14885:2015

EVS-EN 15426:2018
Candles - Specification for sooting behaviour

This document specifies requirements and the test method for evaluating the sooting behaviour of burning indoor candles. It is applicable to single wick candles with a diameter up to 100 mm or equivalent cross sectional area intended to be burned indoors. NOTE Single wick candles with a diameter above 100 mm or equivalent cross sectional area and multiwick candles cannot be evaluated with this test method for technical reasons. Evaluation of the visible release of soot is a possibility for these candles.

Keel: en
Alusdokumendid: EN 15426:2018
Asendab dokumenti: EVS-EN 15426:2007

75 NAFTA JA NAFTATEHNOLOOGIA

EVS-EN 16709:2015+A1:2018
Automotive fuels - High FAME diesel fuel (B20 and B30) - Requirements and test methods

This European Standard specifies requirements and test methods for marketed and delivered high FAME (B20 and B30) diesel fuel for use in diesel engine vehicles designed or subsequently adapted to run on high FAME (B20 and B30) fuel. High FAME (B20 and B30) diesel fuel is a mixture of up to 20 % (V/V) in total and up to 30 % (V/V) in total respectively fatty acid methyl esters (commonly known as FAME) complying to EN 14214 and automotive diesel fuel complying to EN 590. For maintenance and control reasons high FAME (B20 and B30) diesel fuel is to be used in captive fleets that are intended to have an appropriate fuel management (see Clause 3). NOTE 1 For the purposes of this European Standard, the terms "% (m/m)" and "% (V/V)" are used to represent respectively the mass fraction and the volume fraction. NOTE 2 In this European Standard, A-deviations apply (see Annex A).

Keel: en
Alusdokumendid: EN 16709:2015+A1:2018
Asendab dokumenti: EVS-EN 16709:2015
Asendab dokumenti: EVS-EN 16709:2015/AC:2016

EVS-EN 16734:2016+A1:2018
Automotive fuels - Automotive B10 diesel fuel - Requirements and test methods

This European Standard specifies requirements and test methods for marketed and delivered automotive B10 diesel fuel, i.e. diesel fuel containing up to 10,0 %(V/V) Fatty Acid Methyl Ester. It is applicable to fuel for use in diesel engine vehicles compatible with automotive B10 diesel fuel. NOTE 1 This product is allowed in Europe [4], but national legislation can set additional requirements or rules concerning, or even prohibiting, marketing or delivering of the product. NOTE 2 In this European Standard, A-deviations apply (see Annex B). NOTE 3 For the purposes of this European Standard, the terms "% (m/m)" and "% (V/V)" are used to represent respectively the mass fraction and the volume fraction.

Keel: en
Alusdokumendid: EN 16734:2016+A1:2018
Asendab dokumenti: EVS-EN 16734:2016

EVS-EN 589:2018
Automotive fuels - LPG - Requirements and test methods

This document specifies requirements and test methods for marketed and delivered automotive liquefied petroleum gas (LPG), with LPG defined as low pressure liquefied gas composed of one or more light hydrocarbons which are assigned to UN 1011, 1075, 1965, 1969 or 1978 only and which consists mainly of propane, propene, butane, butane isomers, butenes with traces of other hydrocarbon gases. This standard is applicable to automotive LPG for use in LPG engine vehicles designed to run on automotive LPG. NOTE For the purposes of this European Standard, the terms "% (m/m)" and "% (V/V)" are used to represent respectively the mass fraction, μ, and the volume fraction, φ. WARNING - Attention is drawn to the risk of fire and explosion when handling LPG and to the hazard to health arising through inhalation of excessive amounts of LPG. LPG is a highly volatile hydrocarbon liquid which is normally stored under pressure. If the pressure is released large volumes of gas will be produced which form flammable mixtures with air over the range of approximately 2 % (V/V) to 10 % (V/V). This European Standard involves the sampling, handling and testing of LPG. Naked flames, unprotected electrical equipment electrostatic hazards etc. are sources of ignition for LPG. LPG in liquid form can cause cold burns to the skin. The national health and safety regulations apply. LPG is heavier than air and accumulates in cavities. There is a danger of suffocation when inhaling high concentrations of LPG. CAUTION - One of the tests described in this European Standard involves the operator inhaling a mixture of air and LPG vapour. Particular attention is drawn to the cautionary statement provided in A.1, where this method is referred to.

Keel: en
Alusdokumendid: EN 589:2018
Asendab dokumenti: EVS-EN 589:2008+A1:2012

EVS-EN ISO 11299-1:2018

Plastics piping systems for renovation of underground gas supply networks - Part 1: General (ISO 11299-1:2018)

This document specifies the requirements and test methods for plastics piping systems intended to be used for the renovation of underground gas supply networks. It is applicable to pipes and fittings, as manufactured, as well as to the installed lining system. It is not applicable to the existing pipeline or any sprayed coatings or annular filler. This document gives the general requirements common to all relevant renovation techniques.

Keel: en
Alusdokumendid: ISO 11299-1:2018; EN ISO 11299-1:2018
Asendab dokumenti: EVS-EN ISO 11299-1:2013

EVS-EN ISO 11299-2:2018

Plastics piping systems for renovation of underground gas supply networks - Part 2: Lining with continuous pipes (ISO 11299-2:2018)

This document, read in conjunction with ISO 11299-1, specifies requirements and test methods for pipes and fittings which are part of plastics piping systems installed as continuous pipes in the renovation of underground gas supply networks. It is applicable to polyethylene (PE) pipes of three different types: — PE solid wall single layered pipes (nominal outside diameter, dn), including any identification stripes; — PE pipes with co-extruded layers on either or both the outside and inside of the pipe (total outside diameter, dn), as specified in Annex A, where all layers have the same MRS rating; — Coated PE pipes (outside diameter, dn) having a peelable, contiguous, thermoplastics additional layer on the outside of the pipe ("coated pipe"), as described in Annex A. In addition it covers: — jointing of pipe lengths by means of butt fusion; — fabricated and injection-moulded fittings made of PE; It is applicable to PE pipes, fittings and assemblies intended to be used at an operating temperature of 20 °C as the reference temperature. NOTE For other operating temperatures, guidance is given in ISO 4437-5:2014.

Keel: en
Alusdokumendid: ISO 11299-2:2018; EN ISO 11299-2:2018

EVS-EN ISO 11299-3:2018

Plastics piping systems for renovation of underground gas supply networks - Part 3: Lining with close-fit pipes (ISO 11299-3:2018)

This document, in conjunction with ISO 11299-1, specifies requirements and test methods for close-fit lining systems intended to be used for the renovation of gas supply networks. It applies to pipes and fittings, as manufactured, as well as to the installed lining system. It is applicable to polyethylene (PE) pipe of either solid wall single layer or co-extruded layer construction, which is reduced in the factory or on site to provide a close-fitting independent or interactive pressure pipe liner, as well as associated fittings and joints for the construction of the lining system. This document is not applicable for coated PE pipes having a peelable, contiguous, thermoplastics additional layer on the outside of the pipes. It is applicable to PE pipes, fittings and assemblies intended to be used at an operating temperature of 20 °C as the reference temperature. NOTE For other operating temperatures, guidance is given in ISO 4437-5:2014.

Keel: en
Alusdokumendid: ISO 11299-3:2018; EN ISO 11299-3:2018
Asendab dokumenti: EVS-EN ISO 11299-3:2013

EVS-EN ISO 12156-1:2018

Diesel fuel - Assessment of lubricity using the high-frequency reciprocating rig (HFRR) - Part 1: Test method (ISO 12156-1:2018)

This document specifies a test method using the high-frequency reciprocating rig (HFRR), for assessing the lubricating property of diesel fuels, including those fuels which could contain a lubricity-enhancing additive. It defines two methods for measurement of the wear scar; Method "A" — Digital camera, and Method "B" — Visual observation. This test method applies to fuels used in diesel engines. NOTE It is not known if this test method will predict the performance of all additive/fuel combinations, including paraffinic fuels for which no additional correlation testing has been performed. Nevertheless, no data has been presented to suggest that such fuels are not within scope.

Keel: en
Alusdokumendid: ISO 12156-1:2018; EN ISO 12156-1:2018
Asendab dokumenti: EVS-EN ISO 12156-1:2016

EVS-EN ISO 17782:2018

Petroleum, petrochemical and natural gas industries - Scheme for conformity assessment of manufacturers of special materials (ISO 17782:2018)

This document establishes a procedure for verifying that the manufacturer of special materials for the petroleum, petrochemical and natural gas industries has sufficient competence and experience of the relevant material grades of metal, and the necessary facilities and equipment, to manufacture these materials in the required shapes and sizes with acceptable properties according to the applicable standard, material specification and/or material data sheet specified by the purchaser. This document is applicable to manufacturers of various materials, product forms and manufacturing processes when specified by the purchaser. This document has been established considering especially, but not exclusively: a) duplex stainless steel; b) high alloyed austenitic stainless steel; c) nickel-based alloys; d) titanium and its alloys. This document is also applicable to the processes of induction bending and strain-hardened products.

Keel: en

Alusdokumendid: ISO 17782:2018; EN ISO 17782:2018

EVS-EN ISO 20023:2018

Solid biofuels - Safety of solid biofuel pellets - Safe handling and storage of wood pellets in residential and other small-scale applications (ISO 20023:2018)

This document provides principles and requirements for the safe handling and storage of wood pellets in residential and other small-scale applications. It covers the supply chain from loading of the delivery truck, requirements of delivery trucks, connections to the end-user's store and the delivery process. It also covers the design and construction of pellet storage systems. This document addresses risks of fires, dust explosions, off-gassing, oxygen depletion, damage to appliances and buildings through swelling of pellets and other health risks. It is applicable to wood pellets according to ISO 17225-2.

Keel: en
Alusdokumendid: ISO 20023:2018; EN ISO 20023:2018

EVS-EN ISO 20815:2018

Petroleum, petrochemical and natural gas industries - Production assurance and reliability management (ISO 20815:2018)

This document describes the concept of production assurance within the systems and operations associated with exploration drilling, exploitation, processing and transport of petroleum, petrochemical and natural gas resources. This document covers upstream (including subsea), midstream and downstream facilities, petrochemical and associated activities. It focuses on production assurance of oil and gas production, processing and associated activities and covers the analysis of reliability and maintenance of the components. This includes a variety of business categories and associated systems/equipment in the oil and gas value chain. Production assurance addresses not only hydrocarbon production, but also associated activities such as drilling, pipeline installation and subsea intervention. This document provides processes and activities, requirements and guidelines for systematic management, effective planning, execution and use of production assurance and reliability technology. This is to achieve cost-effective solutions over the life cycle of an asset development project structured around the following main elements: — production assurance management for optimum economy of the facility through all of its life cycle phases, while also considering constraints arising from health, safety, environment, and quality; — planning, execution and implementation of reliability technology; — application of reliability and maintenance data; — reliability-based technology development, design and operational improvement. The IEC 60300-3 series addresses equipment reliability and maintenance performance in general. This document designates 12 processes, of which seven are defined as core production assurance processes and addressed in this document. The remaining five processes are denoted as interacting processes and are outside the scope of this document. The interaction of the core production assurance processes with these interacting processes, however, is within the scope of this document as the information flow to and from these latter processes is required to ensure that production assurance requirements can be fulfilled. The only requirement mandated by this document is the establishment and execution of the production assurance programme (PAP). It is important to reflect the PAP in the overall project management in the project for which it applies. This document recommends that the listed processes and activities be initiated only if they can be considered to add value.

Keel: en
Alusdokumendid: ISO 20815:2018; EN ISO 20815:2018
Asendab dokumenti: EVS-EN ISO 20815:2010

EVS-EN ISO 6974-3:2018

Natural gas - Determination of composition and associated uncertainty by gas chromatography - Part 3: Precision and bias (ISO 6974-3:2018)

This document describes the precision that can be expected from the gas chromatographic method that is set up in accordance with ISO 6974-1. The stated precision provides values for the magnitude of variability that can be expected between test results when the method described in ISO 6974-1 is applied in one or more competent laboratories. This document also gives guidance on the assessment of bias.

Keel: en
Alusdokumendid: EN ISO 6974-3:2018; ISO 6974-3:2018
Asendab dokumenti: EVS-EN ISO 6974-3:2002

77 METALLURGIA

EVS-EN 10348-2:2018

Steel for the reinforcement of concrete - Galvanized reinforcing steel - Part 2: Galvanized reinforcing steel products

This document specifies requirements for hot-dip galvanized reinforcing steel in the form of products according to EN 10080 and subjected to further processing, e.g. bent bars, stirrups, products straightened from coils, products cut from bars, welded structures (other than welded fabric or lattice girders according to EN 10348, Part 1) and any other components fabricated for use in the reinforcement of concrete. This document does not apply to hot dip galvanized reinforcement for pre-stressing or components of these reinforcements.

Keel: en
Alusdokumendid: EN 10348-2:2018

EVS-EN ISO 4945:2018

Steel - Determination of nitrogen - Spectrophotometric method (ISO 4945:2018)

This document specifies a spectrophotometric method for the determination of nitrogen in steel. The method is applicable to the determination of nitrogen mass fraction between 0,000 6 % and 0,050 % in low alloy steels and between 0,010 % and 0,050 % in high alloy steels. The method does not apply to samples containing silicon nitrides or having silicon contents higher than 0,6 %.

Keel: en
Alusdokumendid: ISO 4945:2018; EN ISO 4945:2018
Asendab dokumenti: EVS-EN ISO 4945:2009

81 KLAASI- JA KERAAMIKA-TÖÖSTUS

EVS-EN 993-1:2018

Methods of test for dense shaped refractory products - Part 1: Determination of bulk density, apparent porosity and true porosity

This document specifies a method for the determination of the bulk density, apparent porosity and true porosity of dense shaped refractory products. NOTE For shaped insulating refractory products, the bulk density and true porosity are determined in accordance with EN 1094-4.

Keel: en
Alusdokumendid: EN 993-1:2018
Asendab dokumenti: EVS-EN 993-1:1999

EVS-EN 993-5:2018

Methods of test for dense shaped refractory products - Part 5: Determination of cold crushing strength

This document specifies a method of determination of the cold crushing strength of dense shaped refractory products.

Keel: en
Alusdokumendid: EN 993-5:2018
Asendab dokumenti: EVS-EN 993-5:2001

EVS-EN 993-6:2018

Methods of test for (dense) shaped refractory products - Part 6: Determination of modulus of rupture at ambient temperature

This Part of EN 993 specifies a method for the determination of the modulus of rupture of dense and insulating shaped refractory products at ambient temperature, under conditions of a constant rate of increase of stress.

Keel: en
Alusdokumendid: EN 993-6:2018
Asendab dokumenti: EVS-EN 993-6:2000

83 KUMMI- JA PLASTITÖÖSTUS

EVS-EN ISO 20753:2018

Plastics - Test specimens (ISO 20753:2018)

This document specifies dimensional requirements relating to test specimens prepared from plastics materials intended for processing by moulding, as well as to test specimens prepared by machining from sheets or shaped articles. It compiles the designations and dimensions of test specimens used for the acquisition of comparable data and also of other frequently used specimens. The following types of test specimen are specified: a) Type A1 and type A2 specimens (1 = injection moulded, 2 = machined from a sheet or shaped article) These are tensile test specimens from which, with simple machining, specimens for a variety of other tests can be taken (see Annex A). The type A1 specimen is a multipurpose test specimen. The principal advantage of a multipurpose test specimen is that it allows all the test methods mentioned in Annex A to be carried out by all test laboratories on the basis of comparable mouldings. Consequently, the properties measured are coherent as all are measured using similar specimens prepared in the same way. In other words, it can be expected that test results for a given set of specimens will not vary appreciably due to unintentionally different moulding conditions. On the other hand, if desired, the influence of moulding conditions and/or different states of the specimens can be assessed without difficulty for all of the properties measured. Also described are reduced-scale test specimens designated type Axy, where x is the number indicating the method of specimen preparation (1 = injection moulded, 2 = machined from a sheet or shaped article) and y is a number indicating the scale factor (1:y). These can be used e.g. when full-sized test specimens are not convenient or when sample material exists in small quantities only. b) Type B specimens These are bar specimens which can be directly moulded or can be machined from the central section of type A1 specimens or from sheets or shaped articles. c) Type C specimens These are small tensile test specimens which can be directly moulded or machined, e.g. from plates (Type D or type F specimens), from the central section of type A1 specimens or from sheets or shaped articles. d) Type D1 and type D2 specimens These are square plates of thickness 1 mm and 2 mm, respectively. e) Type F specimens These are rectangular plates intended for use in the analysis of mechanical anisotropy. If a particular type of test specimen is not mentioned in this document, this does not mean that there is any intention to exclude the use of the specimen. Additional specimen types can be added in future if they are commonly used.

Keel: en
Alusdokumendid: ISO 20753:2018; EN ISO 20753:2018
Asendab dokumenti: EVS-EN ISO 20753:2014

87 VÄRVIDE JA VÄRVAINETE TÖÖSTUS

CEN/TS 927-9:2018

Paints and varnishes - Coating materials and coating systems for exterior wood - Part 9: Determination of pull-off strength after water exposure

This Technical Specification specifies a method for assessing the resistance of a coating system on wet wood to separation from the substrate by measuring the force necessary to detach or rupture the coating system by a normal tensile strain applied through an attached stud (dolly). Additional information is gained by noting the type and locus of failure. The force required for detachment will depend on several factors including the adhesion of the coating to the substrate and between intermediate coating layers. The procedure is not regarded as a direct means of measuring adhesion but an indicator of adhesive performance (adherence) under wet conditions. A procedure for wetting the wood substrate is described. The test method is only suitable for wood and wood based substrates. For dry adhesion the test method is allowed to be carried out without wetting in which case it will differ very little from EN ISO 4624.

Keel: en
Alusdokumendid: CEN/TS 927-9:2018

EVS-EN 16985:2018

Pihustuskambrid orgaanilisele kattematerjalile. Ohutusnõuded
Spray booths for organic coating material - Safety requirements

This European Standard deals with all significant hazards, hazardous situations and hazardous events relevant to spray booths for the application of organic liquid and powder coating materials, when they are used as intended and under the conditions foreseen by the manufacturer, including reasonably foreseeable misuse. See Annex A for significant hazards. Interfaces between spray booths and other machinery used in coating application are given in Figure 1. The specific significant risks related to the use of this machinery with foodstuff and pharmaceutical products are not dealt with in this standard. The specific significant risks related to drying operation of combined spraying and drying booths are not dealt with in this standard, but in EN 1539:2015. This European Standard is not applicable to: - spaces for application of organic coating material consisting only of an extraction wall; - platforms attached to spray booths (e.g. for touch-up jobs); - flock booths (see EN 50223:2015); - spray booths with airflow from vertical inlet to horizontal extraction or from horizontal inlet to vertical extraction. This European Standard is not applicable to machinery manufactured before the date of its publication as European Standard.

Keel: en
Alusdokumendid: EN 16985:2018
Asendab dokumenti: EVS-EN 12215:2005+A1:2009
Asendab dokumenti: EVS-EN 12981:2005+A1:2009
Asendab dokumenti: EVS-EN 13355:2005+A1:2009

91 EHITUSMATERJALID JA EHITUS

EVS-EN 13203-2:2018

Gaasküttega veekuumutusseadmed kodumajapidamises. Osa 2: Energiatarbimise hindamine
Gas-fired domestic appliances producing hot water - Part 2: Assessment of energy consumption

This document is applicable to gas-fired appliances producing domestic hot water. It applies to both instantaneous and storage tank appliances; waters-heaters and combination boilers that have: - a heat input not exceeding 400 kW; and - a hot water storage tank capacity (if any) not exceeding 2000 l. In the case of combination boilers, with or without storage tank, domestic hot water production is integrated or coupled, the whole being marketed as a single unit. EN 13203-1 sets out in qualitative and quantitative terms the performance in delivery of domestic hot water for a selected variety of uses. It also gives a system for presenting the information to the user. The present document sets out a method for assessing the energy performance of the appliances. It defines a number of daily load profiles for each domestic hot water use, kitchen, shower, bath and a combination of these, together with corresponding test procedures, enabling the energy performances of different gas-fired appliances to be compared and matched to the needs of the user. Where other technologies are combined with a gas-fired boiler or a water heater to produce domestic hot water, specific parts of EN 13203 apply.

Keel: en
Alusdokumendid: EN 13203-2:2018
Asendab dokumenti: EVS-EN 13203-2:2015

EVS-EN 15254-4:2018

Extended application of results from fire resistance tests - Non-loadbearing walls - Part 4: Glazed constructions

This document provides guidance and, where appropriate, defines procedures for variations of certain parameters and factors associated with the design of fire resistant glazed elements which have been tested in accordance with EN 1364-1:2015, and classified according to EN 13501-2. Extended application of fire resistant glazed elements is based on test evidence. This standard only applies to vertically installed fire resistant glazed elements. This standard does not apply to door sets and openable windows according to EN 1634-1 and does not apply to curtain walling - full configuration or curtain walling - part configuration according to EN 1364-3 and EN 1364-4. Glass block assemblies and paver units and channel-shaped glass as defined in EN 1051-1 and EN 572-7 are excluded. There is currently insufficient information available to enable rules for extended application to be developed for these products.

Keel: en

Alusdokumendid: EN 15254-4:2018
Asendab dokumenti: EVS-EN 15254-4:2008+A1:2011

EVS-EN 437:2018

Katsetusgaasid. Katsetusrõhud. Tarvitite kategooriad
Test gases - Test pressures - Appliance categories

This document specifies the test gases, test pressures and categories of appliances relative to the use of gaseous fuels of the first, second and third families. It serves as a reference document in the specific standards for appliances that fall within the scope of the Council Directive on the approximation of the laws of Member States concerning gas appliances 2009/142/EC. The standard makes recommendations for the use of the gases and pressures to be applied for the tests. The full procedure will be given in the corresponding appliance standards. NOTE The test gases and the test pressures specified in this standard are in principle intended to be used with all the appliances in order to establish conformity with the corresponding standards. However, the use of some test gases and test pressures may not be appropriate in the following cases: - appliances with nominal heat input greater than 300 kW; - appliances constructed on site; - appliances in which the final design is influenced by the user; - appliances constructed for use with high supply pressures (notably direct use of the saturated vapour pressure). In these cases, the specific appliance standards may specify other test conditions in order to establish compliance with their requirements.

Keel: en
Alusdokumendid: EN 437:2018
Asendab dokumenti: EVS-EN 437:2006+A1:2009

93 RAJATISED

EVS-EN 14587-1:2018

Railway applications - Infrastructure - Flash butt welding of new rails - Part 1: R220, R260, R260Mn, R320Cr, R350HT, R350LHT, R370CrHT and R400HT grade rails in a fixed plant

This document specifies requirements for the approval of a welding process in a fixed plant, together with the requirements for subsequent welding production. It applies to new Vignole railway rails R220, R260, R260Mn, R320Cr, R350HT, R350LHT, R370CrHT and R400HT grade rails of 46 kg/m and above, as contained in EN 13674-1, welded by a flash butt welding process in a fixed plant and intended for use on railway infrastructure. This document applies to the welding of rails into welded strings.

Keel: en
Alusdokumendid: EN 14587-1:2018
Asendab dokumenti: EVS-EN 14587-1:2007

EVS-EN 16907-1:2018

Earthworks - Part 1: Principles and general rules

This European Standard (Part 1) gives definitions, principles and general rules for the planning, design and specification of earthworks. It introduces the other parts of the standard, which will be used together with Part 1. Earthworks are a civil engineering process aimed at creating earth-structures by changing the geometry of the earth surface for construction or other activities. Application fields of earthworks are associated with: - transport infrastructures (road and motorways, railways, waterways, airports); - platforms for industrial, commercial and residential buildings; - water engineering, flood defence and coastal protection works; - harbours and airport areas, including the construction of embankments in water; - river dykes and marine embankments for land reclamation; - earth and rock fill dams; - onshore embankments made of hydraulically placed fill; - noise barriers, visual barrier, and other non-load bearing earthworks: - landscaping embankments; - backfilling of open mines and quarries; - tailings dams; They are characterized by the need to use available natural or recycled materials and to handle them in a way appropriate to yield prescribed properties. This standard is applicable to all types of earth-structures, except the cases listed below: - some specific types of works such as the execution of trenches and small earthworks may be organized using simplified or specific rules; - some structures, such as dykes and dams, need earthworks which have specific design and construction requirements: these may extend beyond the rules of this standard. This standard does not cover ground improvement beneath an earth-structure by techniques such as piling, jet grouting, deep soil mixing, vertical drains or stone columns. Due to the variable subsoil and climate conditions within Europe and to the different national contract conditions, national sets of rules have been established in several European countries which could not be harmonized within a short period by a European Standard. This European Standard gives therefore basic rules to reach the aims described above. Informative Annexes B to H of this document give examples of national practices following these rules.

Keel: en
Alusdokumendid: EN 16907-1:2018

EVS-EN 16907-2:2018

Earthworks - Part 2: Classification of materials

This document defines a common basis for description and classification for use by all parties involved in the design, planning and construction of the earthworks. This document specifies the processes and properties to be used in the description and classification of earthworks materials. It specifies soil and rock groups as a basis of material specifications for earth structure elements. This classification relates to the physical and chemical properties of the soil and rock materials. NOTE 1 The approach to description of soil and rock set out in EN ISO 14688-1 and EN ISO 14689 respectively and the approach to classification of soil set out in EN ISO 14688-2 are applicable to earthworks, but the range and scope of classification for earthworks given here is more detailed and orientated to the specific demands of earthwork procedures and earth structure elements. NOTE 2 Informative examples of existing national experience based classification systems and their use are presented in the annexes to EN 16907-1:2018.

Keel: en

Alusdokumendid: EN 16907-2:2018

EVS-EN 16907-3:2018
Earthworks - Part 3: Construction procedures

This European Standard provides execution procedures for excavating, transporting and placing soils and rocks for the construction of earth-structures and guidance for the work. Additionally, it includes excavation and placement of rock materials underwater. Dredging of soils and the associated hydraulic placement of fills are covered by EN 16907-6 and EN 16907-7. Execution of earthworks follows the conclusions of the earthworks design and optimization phase (EN 16907-1), which should anticipate soil and rock specificities and their suitability. In case some events could not be foreseen, additional design is performed during the execution of works.

Keel: en
Alusdokumendid: EN 16907-3:2018

EVS-EN 16907-4:2018
Earthworks - Part 4: Soil treatment with lime and/or hydraulic binders

This European Standard applies to the treatment with binders of natural soils, weak rocks, intermediate rocks, chalk, recycled materials and artificial materials for the execution of earthworks during the construction and maintenance of roads, railways, airfields, platforms, dykes, ponds and any other types of earth structure. It relates only to the treatment in layers, produced for earthworks in situ or from a mixing plant, as opposed to the treatment by columns for example. The standard specifies the requirements for the constituents of the mixtures, the preliminary laboratory testing methodology, the laboratory performance classification, the execution and control. NOTE 1 The informative annexes also give example of good practices for execution and control. The laboratory performance classification specified in this European Standard covers the two types of treatment: improvement and stabilization. For improvement, the classification relates to the short term performance. For stabilization, the classification relates to the medium to long term performance. NOTE 2 FprEN 16907-4 prepared by CEN/TC 396 “Earthworks” is for improvement and stabilization in earthworks applications. EN 14227-15 prepared by CEN/TC 227 “Road materials“ is for stabilization only in pavement applications. NOTE 3 For stabilization, the performance classification specified in FprEN 16907-4 uses generally the same laboratory performance classification specified in EN 14227-15, except for the performance classification diagram according to “Rt and E” specific to pavements in EN 14227-15, which has been replaced in FprEN 16904-4 by a performance classification diagram according to “Rt and E” specific to earthworks (Figure 1).

Keel: en
Alusdokumendid: EN 16907-4:2018

EVS-EN 16907-5:2018
Earthworks - Part 5: Quality control

This European Standard provides recommendations and guidance on the quality assurance and quality control of earthworks construction forming part of general civil engineering and building works. It provides guidance on the techniques to be used to give clients, contractors and designers confidence that the earthworks have been constructed in accordance with their requirements.

Keel: en
Alusdokumendid: EN 16907-5:2018

EVS-EN 16907-6:2018
Earthworks - Part 6: Land reclamation earthworks using dredged hydraulic fill

This European Standard deals with underwater excavation and hydraulic placement of fill material for land reclamation projects. The scope is limited to soils that exhibit free-draining behaviour during and after placement. The main purpose of this European Standard is to ensure that functional requirements and specifications for such projects are in harmony with site boundary conditions and construction methods. This European Standard specifies minimum requirements for site related data to be acquired before the procurement and execution stage of a dredging and land reclamation project. This European Standard gives guidance on how the selection of the dredging equipment shall be undertaken. It also gives guidance on the selection of a borrow area and on the judgement regarding the suitability of the fill material for the project. This European Standard offers the general principles on how to design the actual execution of a dredged hydraulic fill project and offers guidelines for monitoring and quality control of that execution in order to guarantee that the fill mass exhibits the behaviour as intended by the designer of the land reclamation. This European Standard does not cover dredging and/or placement of rock, mine tailings, mineral wastes and contaminated soils.

Keel: en
Alusdokumendid: EN 16907-6:2018

97 OLME. MEELELAHUTUS. SPORT

EVS-EN 1307:2014+A3:2018
Textile floor coverings - Classification

This European Standard specifies the requirements for classification of all textile floor coverings and carpet tiles, excluding rugs and runners (see ISO 2424) into use classes with regard to one or more of the following properties: wear, appearance retention, additional performance properties and classes for luxury rating. This European Standard refers to the classification as defined in EN ISO 10874.

Keel: en
Alusdokumendid: EN 1307:2014+A3:2018
Asendab dokumenti: EVS-EN 1307:2014+A2:2018

EVS-EN 15288-1:2018

Swimming pools for public use - Part 1: Safety requirements for design

This document specifies safety requirements relevant to certain aspects of the design and construction of classified pools according to Clause 4. It is intended for those concerned with the design, construction, planning and operation of classified swimming pools. It provides guidance about the risks associated by identifying the design characteristics required for a safe environment. The requirements of this document are applicable to all new classified pools and, as appropriate, to specific refurbishments of classified existing pools. This document has limited application to classified pools which consist of segregated areas of rivers, lakes or the sea but this document should be followed where relevant. National and/or local legislation may apply. This document is not applicable to domestic swimming pools according to EN 16582 (all parts). Further definitions of domestic swimming pools and/or use is given in EN 16582.

Keel: en
Alusdokumendid: EN 15288-1:2018
Asendab dokumenti: EVS-EN 15288-1:2008+A1:2010

EVS-EN 15288-2:2018

Swimming pools for public use - Part 2: Safety requirements for operation

This document specifies safety requirements for the operation of classified pools according to Clause 4. It is intended for those concerned with the operation and management of classified swimming pools. It provides guidance about the risks for staff and users associated with public swimming pools, by identifying the precautions needed to achieve safety. This document has limited application to classified pools which consist of segregated areas of rivers, lakes or the sea. It is advised to follow the requirements for safe working methods and supervision insofar as they are relevant. National and/or local legislation may apply. This document is not applicable for domestic swimming pools according to EN 16582 (all parts). Further definitions of domestic swimming pools and/or use is given in EN 16582.

Keel: en
Alusdokumendid: EN 15288-2:2018
Asendab dokumenti: EVS-EN 15288-2:2008

EVS-EN 16855-2:2018

Walk-in cold rooms - Definition, thermal insulation performance and test methods - Part 2: Customized cold rooms

This document provides test or calculation methods to assess thermal insulation performances for customized walk-in cold rooms and components under normal end-use conditions. The normal end-use conditions of a walk-in cold room are considered to be: - installation inside an existing building; - not exposed to external weather conditions; - internal side of panels subject to temperatures within the indicative range -40 °C ≤ T ≤ 12 °C; - external side of panels subject to temperatures within the indicative range -8 °C ≤ T ≤ 30 °C; temperatures below 0 °C, or higher than 20 °C, can be reached if the walk-in cold room is located inside not air-conditioned premises. NOTE In case the customized walk-in cold room working at positive storage temperature is used as a food processing room or a clean room, the standard is applied.

Keel: en
Alusdokumendid: EN 16855-2:2018

EVS-EN 17022:2018

Lapsehooldustooted. Abivahendid suplemiseks. Ohutusnõuded ja katsemeetodid
Child care articles - Bathing aids - Safety requirements and test methods

This document specifies safety requirements and test methods for standalone bathing aids intended to be used in a bath tub. This European Standard does not cover bathing aids designed for children with special needs. Bathing aids that are intended to be used only in conjunction with a child's bath tub are not covered by this standard. NOTE 1 Non-standalone bathing aids that are intended to be used only in conjunction with a child's bath tub are covered in FprEN 17072:2018, Child care articles - Bath tubs, stands and non-standalone bathing aids - Safety requirements and test methods. NOTE 2 Where the product has several functions or can be converted into another function it is due to comply with relevant standard(s).

Keel: en
Alusdokumendid: EN 17022:2018

EVS-EN 17114:2018

Conservation of cultural heritage - Surface protection for porous inorganic materials - Technical and chemical data sheets of water repellent product

This document specifies the information contained in the technical data sheet of the product in order to allow a preliminary selection of the most suitable products to use in a specific case of intervention.

Keel: en
Alusdokumendid: EN 17114:2018

EVS-EN 17116-2:2018

Specifications for industrial laundry machines - Definitions and testing of capacity and consumption characteristics - Part 2: Batch drying tumblers

This document defines the characteristics of batch drying tumblers and gives the usual test methods for these characteristics with regard to machine capacity, power consumption and productivity. It is applicable for use as a reference in the drafting of purchasing

orders for batch drying tumblers whose net usable cage volume is 1 000 dm3 (litres) resp. 40 kg and above. In addition, it is recommended for determination of energy consumption and productivity according to Directive 2009/125 EC. Furthermore, the standard describes standard methods for measuring principal performance characteristics of professional tumble dryers. It does not cover safety requirements (see EN ISO 10472 4).

Keel: en
Alusdokumendid: EN 17116-2:2018

EVS-EN 17164:2018

Climbing/bouldering walls for use in the water area of swimming pools of public use - Safety and operational requirements

This document specifies safety requirements for climbing/bouldering walls, which are vertical and/or overhanging towards the water area, for use in the water area of swimming pools for public use in addition to the general safety requirements of EN 13451-1. It is therefore advised to read this document in conjunction with EN 13451-1. Requirements for the use, the operation and the maintenance are also specified. This standard is applicable to climbing/bouldering walls in classified swimming pools as specified in EN 15288-1. This standard is not applicable to climbing/bouldering walls in swimming pools for domestic use. This standard has limited application to water areas which consist of segregated areas of rivers, lakes or the sea. It is advised to follow the design, working methods and operational requirements insofar as they are relevant. This standard is not applicable to artificial climbing structures according to EN 12572 (all parts) and to inflatable climbing/bouldering walls according to EN ISO 25649-6. In the aspects which overlap with EN 13451-10 the requirements of this EN standard take precedence over the EN 13451-10. NOTE In this standard, "climbing" and "bouldering" are used synonymously.

Keel: en
Alusdokumendid: EN 17164:2018

EVS-EN 4730:2018

Aerospace series - Anthropometric dimensioning of aircraft seats

This document describes the application of anthropometric data for the dimensioning of aircraft passenger seats. The focus is on the use of statistical parameters of anthropometrical measurements as given in CEN ISO/TR 7250-2 and similar sources. Even if methods described in this document might be applicable for feasibility and safety issues the scope of this document is design for comfort. The aim of this document is to give advice to designers to include methods of human-centred design into the design of aircraft seats.

Keel: en
Alusdokumendid: EN 4730:2018

EVS-EN 50597:2018

Energy consumption of vending machines

This document defines methods for the measurement of energy consumption of vending machines, whether or not fitted with refrigerating appliances. The standard applies (but is not limited) to the categories shown in Table 1 of machine types. The following types of vending machine are excluded from this standard: — drink machines dispensing hot and/or cold drinks into cups; — machines with a food heating function; — vending machines operating at temperatures below 0 °C; or — any machine including one or more of these compartments. For verification purposes, it is essential to apply all of the tests specified to a single unit. The tests may also be made individually for the study of a particular characteristic. This standard does not deal with any characteristics of machine design other than energy consumption.

Keel: en
Alusdokumendid: EN 50597:2018
Asendab dokumenti: EVS-EN 50597:2015

EVS-EN 71-14:2018

Mänguasjade ohutus. Osa 14: Batuudid koduseks kasutamiseks
Safety of toys - Part 14: Trampolines for domestic use

See dokument määrab kindlaks nõuded ja katsemeetodid batuutidele koduseks kasutuseks, nende juurdepääsuseadmed ja tarandikud, mis on mõeldud välis- ja/või sisekasutuseks korraga ühe isiku poolt. Selle standardi käsitlusalast jäävad välja — batuudid, mida kasutatakse võimlemisvahenditena, mida hõlmatakse standardiga EN 13219:2008; — voolavad täispuhutavad batuudid, mida hõlmatakse standardisarjaga EN ISO 25649:2017; — batuudid, mida kasutatakse avalikel mänguväljakutel; — kalde all matiga batuudid; — täispuhutavad batuudid; — kehatreeninguks mõeldud batuudid, kaasa arvatud meditsiinilise otstarbega batuudid; — lisarajatistega batuudid, nt telgid, korvpallirõngas.

Keel: en, et
Alusdokumendid: EN 71-14:2018
Asendab dokumenti: EVS-EN 71-14:2014+A1:2017

EVS-EN 913:2018

Võimlemisvarustus. Üldised ohutusnõuded ja katsemeetodid
Gymnastic equipment - General safety requirements and test methods

This document specifies general safety requirements and test methods for all pieces of gymnastic and sports equipment and for all pieces of equipment for the use of physical education, training and competition, intended for use supervised by a competent person and not specified in other, individual standards and/or federation rules.

Keel: en

Alusdokumendid: EN 913:2018
Asendab dokumenti: EVS-EN 913:2008

ASENDATUD VÕI TÜHISTATUD EESTI STANDARDID JA STANDARDILAADSED DOKUMENDID

01 ÜLDKÜSIMUSED. TERMINOLOOGIA. STANDARDIMINE. DOKUMENTATSIOON

EVS-EN ISO 4007:2012
Personal protective equipment - Eye and face protection - Vocabulary (ISO 4007:2012)

Keel: en
Alusdokumendid: ISO 4007:2012; EN ISO 4007:2012
Asendatud järgmise dokumendiga: EVS-EN ISO 4007:2018
Standardi staatus: Kehtetu

03 TEENUSED. ETTEVÕTTE ORGANISEERIMINE, JUHTIMINE JA KVALITEET. HALDUS. TRANSPORT. SOTSIOLOOGIA

EVS-EN ISO 50001:2011
Energiajuhtimissüsteemid. Nõuded koos rakendamisjuhistega
Energy management systems - Requirements with guidance for use (ISO 50001:2011)

Keel: en, et
Alusdokumendid: ISO 50001:2011; EN ISO 50001:2011
Asendatud järgmise dokumendiga: EVS-EN ISO 50001:2018
Standardi staatus: Kehtetu

11 TERVISEHOOLDUS

EVS-EN ISO 7405:2009
Dentistry - Evaluation of biocompatibility of medical devices used in dentistry

Keel: en
Alusdokumendid: ISO 7405:2008; EN ISO 7405:2008
Asendatud järgmise dokumendiga: EVS-EN ISO 7405:2018
Muudetud järgmise dokumendiga: EVS-EN ISO 7405:2009/A1:2013
Standardi staatus: Kehtetu

EVS-EN ISO 7405:2009/A1:2013
Dentistry - Evaluation of biocompatibility of medical devices used in dentistry - Amendment 1: Positive control material (ISO 7405:2008/Amd 1:2013)

Keel: en
Alusdokumendid: ISO 7405:2008/Amd 1:2013; EN ISO 7405:2008/A1:2013
Asendatud järgmise dokumendiga: EVS-EN ISO 7405:2018
Standardi staatus: Kehtetu

13 KESKKONNA- JA TERVISEKAITSE. OHUTUS

CWA 15897:2008
Submerged Membrane Bioreactor (MBR) Technology

Keel: en
Alusdokumendid: CWA 15897:2008
Asendatud järgmise dokumendiga: CEN/TR 15897:2018
Standardi staatus: Kehtetu

EVS-EN 13832-2:2006
Kemikaalide ja mikroorganismide eest kaitsvad jalatsid. Osa 2: Kemikaalide pritsmete eest kaitsvad jalatsid
Footwear protecting against chemicals - Part 2: Requirements for footwear resistant to chemicals under laboratory conditions

Keel: en
Alusdokumendid: EN 13832-2:2006
Asendatud järgmise dokumendiga: EVS-EN 13832-2:2018
Standardi staatus: Kehtetu

EVS-EN 13832-3:2006

Kemikaalide ja mikroorganismide eest kaitsvad jalatsid. Osa 3: Kemikaalide eest tugevat kaitset pakkuvad jalatsid
Footwear protecting against chemicals - Part 3: Requirements for footwear highly resistant to chemicals under laboratory conditions

Keel: en
Alusdokumendid: EN 13832-3:2006
Asendatud järgmise dokumendiga: EVS-EN 13832-3:2018
Standardi staatus: Kehtetu

EVS-EN 15254-4:2008+A1:2011

Tulepüsivuskatsete tulemuste kasutusulatuse laiendamine. Mittekandvad seinad. Osa 4: Klaasitud konstruktsioonid KONSOLIDEERITUD TEKST
Extended application of results from fire resistance tests - Nonloadbearing walls - Part 4: Glazed constructions CONSOLIDATED TEXT

Keel: en, et
Alusdokumendid: EN 15254-4:2008+A1:2011
Asendatud järgmise dokumendiga: EVS-EN 15254-4:2018
Standardi staatus: Kehtetu

EVS-EN 358:2000

Tööasendi ja kõrgelt kukkumise isikukaitsevahendid . Tööasendi- ja kinnitustoerihmad ning tööasendi kaelarihmad
Personal protective equipment for work positioning and prevention of falls from a height - Belts for work positioning and restraint and work positioning lanyards

Keel: en
Alusdokumendid: EN 358:1999
Asendatud järgmise dokumendiga: EVS-EN 358:2018
Standardi staatus: Kehtetu

EVS-EN 363:2008

Kõrgelt kukkumise isikukaitsevahendid. Kukkumise peatamissüsteemid
Personal fall protection equipment - Personal fall protection systems

Keel: en
Alusdokumendid: EN 363:2008
Asendatud järgmise dokumendiga: EVS-EN 363:2018
Standardi staatus: Kehtetu

EVS-EN ISO 10634:1999

Vee kvaliteet. Juhis vees halvasti lahustuvate orgaaniliste ühendite ettevalmistamiseks ja töötlemiseks, nende pärastise biolagundatavuse hindamiseks veekeskkonnas
Water quality - Guidance for the preparation and treatment of poorly water-soluble organic compounds for the subsequent evaluation of their biodegradability in an aqueous medium

Keel: en
Alusdokumendid: ISO 10634:1995; EN ISO 10634:1995
Asendatud järgmise dokumendiga: EVS-EN ISO 10634:2018
Standardi staatus: Kehtetu

EVS-EN ISO 15681-2:2005

Water quality - Determination of orthophosphate and total phosphorus contents by flow analysis (FIA and CFA) - Part 2: Method by continuous flow analysis (CFA)

Keel: en
Alusdokumendid: ISO 15681-2:2003; EN ISO 15681-2:2004
Asendatud järgmise dokumendiga: EVS-EN ISO 15681-2:2018
Standardi staatus: Kehtetu

EVS-EN ISO 4007:2012

Personal protective equipment - Eye and face protection - Vocabulary (ISO 4007:2012)

Keel: en
Alusdokumendid: ISO 4007:2012; EN ISO 4007:2012
Asendatud järgmise dokumendiga: EVS-EN ISO 4007:2018
Standardi staatus: Kehtetu

IEC/TR 60479-3:1998 et

Voolu toime inimestele ja koduloomadele. Osa 3: Läbi koduloomakeha kulgeva voolu toime
Effects of current on human beings and livestock - Part 3: Effects of currents passing through the body of livestock (IEC/TR 60479-3:1998)

Keel: et
Alusdokumendid: IEC/TR 60479-3:1998
Standardi staatus: Kehtetu

IEC/TS 60479-1:2005 et

Voolu toime inimestele ja koduloomadele. Osa 1: Üldalused
Effects of current on human beings and livestock - Part 1: General aspects

Keel: et
Alusdokumendid: IEC/TS 60479-1:2005
Standardi staatus: Kehtetu

19 KATSETAMINE

CEN ISO/TR 25108:2006

Non-destructive testing - Guidelines for NDT personnel training organizations

Keel: en
Alusdokumendid: ISO/TR 25108:2006; CEN ISO/TR 25108:2006
Asendatud järgmise dokumendiga: CEN ISO/TS 25108:2018
Standardi staatus: Kehtetu

23 ÜLDKASUTATAVAD HÜDRO- JA PNEUMOSÜSTEEMID JA NENDE OSAD

EVS-EN ISO 11299-1:2013

Plastics piping systems for renovation of underground gas supply networks - Part 1: General (ISO 11299-1:2011)

Keel: en
Alusdokumendid: ISO 11299-1:2011; EN ISO 11299-1:2013
Asendatud järgmise dokumendiga: EVS-EN ISO 11299-1:2018
Standardi staatus: Kehtetu

EVS-EN ISO 11299-3:2013

Plastics piping systems for renovation of underground gas supply networks - Part 3: Lining with close-fit pipes (ISO 11299-3:2011)

Keel: en
Alusdokumendid: ISO 11299-3:2011; EN ISO 11299-3:2013
Asendatud järgmise dokumendiga: EVS-EN ISO 11299-3:2018
Standardi staatus: Kehtetu

25 TOOTMISTEHNOLOOGIA

EVS-EN 1011-6:2006

Welding - Recommendation for welding of metallic materials - Part 6: Laser beam welding

Keel: en
Alusdokumendid: EN 1011-6:2005
Asendatud järgmise dokumendiga: EVS-EN 1011-6:2018
Standardi staatus: Kehtetu

EVS-EN 13144:2003

Metallic and other inorganic coatings - Method for quantitative measurement of adhesion by tensile test

Keel: en
Alusdokumendid: EN 13144:2003
Asendatud järgmise dokumendiga: EVS-EN 13144:2018
Standardi staatus: Kehtetu

EVS-EN 14587-1:2007

Railway applications - Track - Flash butt welding of rails - Part 1: New R220, R260, R260Mn and R350HT grade rails in a fixed plant

Keel: en

Alusdokumendid: EN 14587-1:2007
Asendatud järgmise dokumendiga: EVS-EN 14587-1:2018
Standardi staatus: Kehtetu

EVS-EN 50504:2008
Validation of arc welding equipment

Keel: en
Alusdokumendid: EN 50504:2008
Asendatud järgmise dokumendiga: EVS-EN IEC 60974-14:2018
Standardi staatus: Kehtetu

EVS-EN 61326-3-2:2008
Mõõtmis-, juhtimis- ja laboratooriumi-elektriseadmed. Elektromagnetilise ühilduvuse nõuded. Osa 3-2: Häiringukindlusõuded ohutusega seotud süsteemidele ja ohutuse tagamiseks (talitlusohutuseks) ettenähtud seadmetele. Tööstuslikud rakendused
Electrical equipment for measurement, control and laboratory use - EMC requirements -- Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety related functions (functional safety) - Industrial applications with specified electromagnetic environment

Keel: en
Alusdokumendid: IEC 61326-3-2:2008; EN 61326-3-2:2008
Asendatud järgmise dokumendiga: EVS-EN IEC 61326-3-2:2018
Standardi staatus: Kehtetu

EVS-EN 792-13:2000+A1:2008
Käeshoitavad mitteelektrilised jõuseadised. Ohutusnõuded. Osa 13: Kinnitusdetailide sissetagumise tööriistad KONSOLIDEERITUD TEKST
Hand-held non-electric power tools - Safety requirements - Part 13: Fastener driving tools CONSOLIDATED TEXT

Keel: en
Alusdokumendid: EN 792-13:2000+A1:2008
Asendatud järgmise dokumendiga: EVS-EN ISO 11148-13:2018
Standardi staatus: Kehtetu

EVS-EN ISO 17640:2017
Keevisõmbluste mittepurustav katsetamine. Ultraheliga katsetamine. Meetodid, katsetasemed ja hindamine
Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment (ISO 17640:2017)

Keel: en, et
Alusdokumendid: ISO 17640:2017; EN ISO 17640:2017
Asendatud järgmise dokumendiga: EVS-EN ISO 17640:2018
Standardi staatus: Kehtetu

27 ELEKTRI- JA SOOJUSENERGEETIKA

EVS-EN 13136:2013
Külmasüsteemid ja soojuspumbad. Rõhuvabastusseadmed ja nendega seotud torustik. Arvutamise meetodid
Refrigerating systems and heat pumps - Pressure relief devices and their associated piping - Methods for calculation

Keel: en
Alusdokumendid: EN 13136:2013
Asendatud järgmise dokumendiga: EVS-EN 13136:2013+A1:2018
Standardi staatus: Kehtetu

EVS-EN 437:2006+A1:2009
Katsetusgaasid. Katsetusrõhud. Tarvitite kategooriad KONSOLIDEERITUD TEKST
Test gases - Test pressures - Appliance categories CONSOLIDATED TEXT

Keel: en, et
Alusdokumendid: EN 437:2003+A1:2009
Asendatud järgmise dokumendiga: EVS-EN 437:2018
Standardi staatus: Kehtetu

EVS-EN 50597:2015
Energy consumption of vending machines

Keel: en
Alusdokumendid: EN 50597:2015
Asendatud järgmise dokumendiga: EVS-EN 50597:2018
Standardi staatus: Kehtetu

EVS-EN ISO 50001:2011
Energiajuhtimissüsteemid. Nõuded koos rakendamisjuhistega
Energy management systems - Requirements with guidance for use (ISO 50001:2011)

Keel: en, et
Alusdokumendid: ISO 50001:2011; EN ISO 50001:2011
Asendatud järgmise dokumendiga: EVS-EN ISO 50001:2018
Standardi staatus: Kehtetu

29 ELEKTROTEHNIKA

EVS-EN 50068:2002
Wrought steel enclosures for gas-filled high-voltage switchgear and controlgear

Keel: en
Alusdokumendid: EN 50068:1991; EN 50068:1991/A1:1993
Asendatud järgmise dokumendiga: EVS-EN 50068:2018
Parandatud järgmise dokumendiga: EVS-EN 50068:2002/AC:2007
Standardi staatus: Kehtetu

EVS-EN 50068:2002/AC:2007
Wrought steel enclosures for gas-filled high-voltage switchgear and controlgear

Keel: en
Alusdokumendid: EN 50068:1991/Corr:2007
Asendatud järgmise dokumendiga: EVS-EN 50068:2018
Standardi staatus: Kehtetu

EVS-EN 50318:2003
Railway applications - Current collection systems - Validation of simulation of the dynamic interaction between pantograph and overhead contact line

Keel: en
Alusdokumendid: EN 50318:2002
Asendatud järgmise dokumendiga: EVS-EN 50318:2018
Standardi staatus: Kehtetu

EVS-EN 50341-2-20:2015
Elektriõhuliinid vahelduvpingega üle 1 kV. Osa 2-20: Eesti siseriiklikud erinõuded (SEN)
Overhead electrical lines exceeding AC 1 kV - Part 2-20: National Normative Aspects (NNA) for Estonia (based on EN 50341-1:2012)

Keel: en, et
Alusdokumendid: EN 50341-2-20:2015
Asendatud järgmise dokumendiga: EVS-EN 50341-2-20:2018
Standardi staatus: Kehtetu

EVS-EN 50581:2012
Tehniline dokumentatsioon elektriliste ja elektrooniliste toodete hindamiseks ohtlike ainete piirangu seisukohast
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Keel: en
Alusdokumendid: EN 50581:2012
Asendatud järgmise dokumendiga: EVS-EN IEC 63000:2018
Standardi staatus: Kehtetu

IEC/TS 60479-1:2005 et
Voolu toime inimestele ja koduloomadele. Osa 1: Üldalused
Effects of current on human beings and livestock - Part 1: General aspects

Keel: et

Alusdokumendid: IEC/TS 60479-1:2005
Standardi staatus: Kehtetu

31 ELEKTROONIKA

EVS-EN 50581:2012
Tehniline dokumentatsioon elektriliste ja elektrooniliste toodete hindamiseks ohtlike ainete piirangu seisukohast
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Keel: en
Alusdokumendid: EN 50581:2012
Asendatud järgmise dokumendiga: EVS-EN IEC 63000:2018
Standardi staatus: Kehtetu

EVS-EN 60512-1:2002
Connectors for electronic equipment - Tests and measurements - Part 1: General

Keel: en
Alusdokumendid: IEC 60512-1:2001; EN 60512-1:2001
Asendatud järgmise dokumendiga: EVS-EN IEC 60512-1:2018
Standardi staatus: Kehtetu

EVS-EN 61051-1:2008
Varistors for use in electronic equipement - Part 1: Generic specification

Keel: en
Alusdokumendid: IEC 61051-1:2007; EN 61051-1:2008
Asendatud järgmise dokumendiga: EVS-EN IEC 61051-1:2018
Standardi staatus: Kehtetu

33 SIDETEHNIKA

EVS-EN 61326-3-2:2008
Mõõtmis-, juhtimis- ja laboratooriumi-elektriseadmed. Elektromagnetilise ühilduvuse nõuded. Osa 3-2: Häiringukindlusõuded ohutusega seotud süsteemidele ja ohutuse tagamiseks (talitlusohutuseks) ettenähtud seadmetele. Tööstuslikud rakendused
Electrical equipment for measurement, control and laboratory use - EMC requirements -- Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety related functions (functional safety) - Industrial applications with specified electromagnetic environment

Keel: en
Alusdokumendid: IEC 61326-3-2:2008; EN 61326-3-2:2008
Asendatud järgmise dokumendiga: EVS-EN IEC 61326-3-2:2018
Standardi staatus: Kehtetu

45 RAUDTEETEHNIKA

EVS-EN 14198:2016
Raudteealased rakendused. Pidurdamine. Nõuded veduriga veetavate rongide pidurisüsteemidele
Railway applications - Braking - Requirements for the brake system of trains hauled by locomotives

Keel: en
Alusdokumendid: EN 14198:2016
Asendatud järgmise dokumendiga: EVS-EN 14198:2016+A1:2018
Standardi staatus: Kehtetu

EVS-EN 14531-1:2015
Raudteealased rakendused. Meetodid aeglustus- ja peatumisteekonna ning seisupidurduse arvutamiseks. Osa 1: Rongi või üksikveeremi keskmiste väärtuste arvutamiseks kasutatavad üldalgoritmid
Railway applications - Methods for calculation of stopping and slowing distances and immobilisation braking - Part 1: General algorithms utilizing mean value calculation for train sets or single vehicles

Keel: en
Alusdokumendid: EN 14531-1:2015
Asendatud järgmise dokumendiga: EVS-EN 14531-1:2015+A1:2018
Standardi staatus: Kehtetu

EVS-EN 15877-1:2012

Raudteealased rakendused. Raudteeveeremi märgistus. Osa 1: Kaubavagunid
Railway applications - Marking on railway vehicles - Part 1: Freight wagons

Keel: en
Alusdokumendid: EN 15877-1:2012
Asendatud järgmise dokumendiga: EVS-EN 15877-1:2012+A1:2018
Standardi staatus: Kehtetu

EVS-EN 16186-1:2015

Raudteealased rakendused. Juhiruum. Osa 1: Antropomeetrilised andmed ja nähtavus
Railway applications - Driver's cab - Part 1: Anthropometric data and visibility

Keel: en
Alusdokumendid: EN 16186-1:2014
Asendatud järgmise dokumendiga: EVS-EN 16186-1:2015+A1:2018
Standardi staatus: Kehtetu

EVS-EN 16186-3:2016

Raudteealased rakendused. Juhikabiin. Osa 3: Näidikute kujundus
Railway applications - Driver's cab - Part 3: Design of displays

Keel: en
Alusdokumendid: EN 16186-3:2016
Asendatud järgmise dokumendiga: EVS-EN 16186-3:2016+A1:2018
Standardi staatus: Kehtetu

49 LENNUNDUS JA KOSMOSETEHNIKA

EVS-EN 14725:2004

Space engineering - Verification

Keel: en
Alusdokumendid: EN 14725:2003
Asendatud järgmise dokumendiga: EVS-EN 16603-10-02:2018
Standardi staatus: Kehtetu

EVS-EN 3745-411:2007

Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 411: Resistance to fluids

Keel: en
Alusdokumendid: EN 3745-411:2007
Asendatud järgmise dokumendiga: EVS-EN 3745-411:2018
Standardi staatus: Kehtetu

EVS-EN 3745-506:2009

Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 506: Impact resistance

Keel: en
Alusdokumendid: EN 3745-506:2009
Asendatud järgmise dokumendiga: EVS-EN 3745-506:2018
Standardi staatus: Kehtetu

EVS-EN 4611-004:2012

Aerospace series - Cables, electrical, for general purpose, single and multicore assembly - XLETFE Family - Part 004: Tin plated copper - Operating temperatures, between -65 °C and 135 °C - Dual extruded wall for open applications - UV laser printable - Product standard

Keel: en
Alusdokumendid: EN 4611-004:2012
Asendatud järgmise dokumendiga: EVS-EN 4611-004:2018
Standardi staatus: Kehtetu

EVS-EN 4726:2015
Aerospace series - Acceptance of the cosmetic variations in appearance of aircraft cabin parts

Keel: en
Alusdokumendid: EN 4726:2015
Asendatud järgmise dokumendiga: EVS-EN 4726:2018
Standardi staatus: Kehtetu

55 PAKENDAMINE JA KAUPADE JAOTUSSÜSTEEMID

EVS-EN 50597:2015
Energy consumption of vending machines

Keel: en
Alusdokumendid: EN 50597:2015
Asendatud järgmise dokumendiga: EVS-EN 50597:2018
Standardi staatus: Kehtetu

59 TEKSTIILI- JA NAHATEHNOLOOGIA

EVS-EN ISO 32100:2011
Rubber- or plastics-coated fabrics - Physical and mechanical tests - Determination of flex resistance by the flexometer method (ISO 32100:2010)

Keel: en
Alusdokumendid: ISO 32100:2010; EN ISO 32100:2010
Asendatud järgmise dokumendiga: EVS-EN ISO 32100:2018
Standardi staatus: Kehtetu

67 TOIDUAINETE TEHNOLOOGIA

EVS-EN ISO 15141-1:2000
Toiduained. Ohratoksiini A määramine teraviljas ja teraviljatoodetes. Osa 1: Kõrgefektiivse vedelikkromatograafia meetod koos silikageelpuhastusega.
Foodstuffs - Determination of ochratoxin A in cereals and cereal products - Part 1: High performance liquid chromatographic method with silica gel clean up

Keel: en
Alusdokumendid: ISO 15141-1:1998; EN ISO 15141-1:1998
Standardi staatus: Kehtetu

EVS-EN ISO 15141-2:2003
Foodstuffs - Determination of ochratoxin A in cereals and cereal products - Part 2: High performance liquid chromatographic method with bicarbonate clean up

Keel: en
Alusdokumendid: ISO 15141-2:1998; EN ISO 15141-2:1998
Standardi staatus: Kehtetu

71 KEEMILINE TEHNOLOOGIA

EVS-EN 14885:2015
Chemical disinfectants and antiseptics - Application of European Standards for chemical disinfectants and antiseptics

Keel: en
Alusdokumendid: EN 14885:2015
Asendatud järgmise dokumendiga: EVS-EN 14885:2018
Standardi staatus: Kehtetu

EVS-EN 15426:2007
Candles - Specification for sooting behaviour

Keel: en
Alusdokumendid: EN 15426:2007
Asendatud järgmise dokumendiga: EVS-EN 15426:2018
Standardi staatus: Kehtetu

75 NAFTA JA NAFTATEHNOLOOGIA

EVS-EN 16709:2015
Automotive fuels - High FAME diesel fuel (B20 and B30) - Requirements and test methods

Keel: en
Alusdokumendid: EN 16709:2015
Asendatud järgmise dokumendiga: EVS-EN 16709:2015+A1:2018
Parandatud järgmise dokumendiga: EVS-EN 16709:2015/AC:2016
Standardi staatus: Kehtetu

EVS-EN 16709:2015/AC:2016
Automotive fuels - High FAME diesel fuel (B20 and B30) - Requirements and test methods

Keel: en
Alusdokumendid: EN 16709:2015/AC:2016
Asendatud järgmise dokumendiga: EVS-EN 16709:2015+A1:2018
Standardi staatus: Kehtetu

EVS-EN 16734:2016
Automotive fuels - Automotive B10 diesel fuel - Requirements and test methods

Keel: en
Alusdokumendid: EN 16734:2016
Asendatud järgmise dokumendiga: EVS-EN 16734:2016+A1:2018
Standardi staatus: Kehtetu

EVS-EN 589:2008+A1:2012
Mootorikütused. Vedelgaas. Nõuded ja katsemeetodid
Automotive fuels - LPG - Requirements and test methods

Keel: en, et
Alusdokumendid: EN 589:2008+A1:2012
Asendatud järgmise dokumendiga: EVS-EN 589:2018
Standardi staatus: Kehtetu

EVS-EN ISO 11299-1:2013
Plastics piping systems for renovation of underground gas supply networks - Part 1: General (ISO 11299-1:2011)

Keel: en
Alusdokumendid: ISO 11299-1:2011; EN ISO 11299-1:2013
Asendatud järgmise dokumendiga: EVS-EN ISO 11299-1:2018
Standardi staatus: Kehtetu

EVS-EN ISO 11299-3:2013
Plastics piping systems for renovation of underground gas supply networks - Part 3: Lining with close-fit pipes (ISO 11299-3:2011)

Keel: en
Alusdokumendid: ISO 11299-3:2011; EN ISO 11299-3:2013
Asendatud järgmise dokumendiga: EVS-EN ISO 11299-3:2018
Standardi staatus: Kehtetu

EVS-EN ISO 12156-1:2016
Diesel fuel - Assessment of lubricity using the high-frequency reciprocating rig (HFRR) - Part 1: Test method (ISO 12156-1:2016)

Keel: en
Alusdokumendid: ISO 12156-1:2016; EN ISO 12156-1:2016
Asendatud järgmise dokumendiga: EVS-EN ISO 12156-1:2018
Standardi staatus: Kehtetu

EVS-EN ISO 20815:2010
Nafta-, naftakeemia- ja maagaasitööstused. Tootmise tagamine ja töökindluse juhtimine
Petroleum, petrochemical and natural gas industries - Production assurance and reliability management

Keel: en
Alusdokumendid: ISO 20815:2008; EN ISO 20815:2010
Asendatud järgmise dokumendiga: EVS-EN ISO 20815:2018
Standardi staatus: Kehtetu

EVS-EN ISO 6974-3:2002
Natural gas - Determination of composition with defined uncertainty by gas chromatography - Part 3: Determination of hydrogen, helium, oxygen, nitrogen, carbon dioxide and hydrocarbons up to C8 using two packed columns

Keel: en
Alusdokumendid: ISO 6974-3:2000; EN ISO 6974-3:2001
Asendatud järgmise dokumendiga: EVS-EN ISO 6974-3:2018
Standardi staatus: Kehtetu

77 METALLURGIA

EVS-EN ISO 4945:2009
Steel - Determination of nitrogen content - Spectrophotometric method

Keel: en
Alusdokumendid: ISO 4945:1977; EN ISO 4945:2009
Asendatud järgmise dokumendiga: EVS-EN ISO 4945:2018
Standardi staatus: Kehtetu

81 KLAASI- JA KERAAMIKA-TÖÖSTUS

EVS-EN 993-1:1999
Tihedate tulekindlate profiiltoodete katsemeetodid. Osa 1: Tiheduse, näivpoorsuse ja tegeliku poorsuse määramine
Methods of test for dense shaped refractory products - Part 1: Determination of bulk density, apparent porosity and true porosity

Keel: en
Alusdokumendid: EN 993-1:1995
Asendatud järgmise dokumendiga: EVS-EN 993-1:2018
Standardi staatus: Kehtetu

EVS-EN 993-5:2001
Methods of test for dense shaped refractory products - Part 5: Determination of cold crushing strength

Keel: en
Alusdokumendid: EN 993-5:1998
Asendatud järgmise dokumendiga: EVS-EN 993-5:2018
Standardi staatus: Kehtetu

EVS-EN 993-6:2000
Tihedate tulekindlate profiiltoodete katsemeetodid. Osa 6: Katkemooduli määramine keskkonnatemperatuuril
Methods of test for dense shaped refractory products - Part 6: Determination of modulus of rupture at ambient temperature

Keel: en
Alusdokumendid: EN 993-6:1995
Asendatud järgmise dokumendiga: EVS-EN 993-6:2018
Standardi staatus: Kehtetu

83 KUMMI- JA PLASTITÖÖSTUS

EVS-EN ISO 20753:2014
Plastics - Test specimens (ISO 20753:2008)

Keel: en
Alusdokumendid: ISO 20753:2008; EN ISO 20753:2014
Asendatud järgmise dokumendiga: EVS-EN ISO 20753:2018
Standardi staatus: Kehtetu

87 VÄRVIDE JA VÄRVAINETE TÖÖSTUS

EVS-EN 12215:2005+A1:2009
Pindamisseadmed. Pihustuskambrid orgaaniliste vedelate kattematerjalide pealekandmiseks. Ohutusnõuded KONSOLIDEERITUD TEKST

Coating plants - Spray booths for application of organic liquid coating materials - Safety requirements CONSOLIDATED TEXT

Keel: en
Alusdokumendid: EN 12215:2004+A1:2009
Asendatud järgmise dokumendiga: EVS-EN 16985:2018
Standardi staatus: Kehtetu

EVS-EN 12981:2005+A1:2009

Pindamisseadmed. Pihustuskambrid orgaanilise pulberkattematerjaliga katmiseks. Ohutusnõuded KONSOLIDEERITUD TEKST
Coating plants - Spray booths for application of organic powder coating material - Safety requirements CONSOLIDATED TEXT

Keel: en
Alusdokumendid: EN 12981:2005+A1:2009
Asendatud järgmise dokumendiga: EVS-EN 16985:2018
Standardi staatus: Kehtetu

EVS-EN 13355:2005+A1:2009

Pindamisseadmed. Kombineeritud kabiinid. Ohutusnõuded KONSOLIDEERITUD TEKST
Coating plants - Combined booths - Safety requirements CONSOLIDATED TEXT

Keel: en
Alusdokumendid: EN 13355:2004+A1:2009
Asendatud järgmise dokumendiga: EVS-EN 16985:2018
Standardi staatus: Kehtetu

91 EHITUSMATERJALID JA EHITUS

EVS-EN 13203-2:2015

Gaasküttega veekuumutusseadmed kodumajapidamises. Osa 2: Energiatarbimise hindamine
Gas-fired domestic appliances producing hot water - Part 2: Assessment of energy consumption

Keel: en
Alusdokumendid: EN 13203-2:2015
Asendatud järgmise dokumendiga: EVS-EN 13203-2:2018
Standardi staatus: Kehtetu

EVS-EN 437:2006+A1:2009

Katsetusgaasid. Katsetusrõhud. Tarvitite kategooriad KONSOLIDEERITUD TEKST
Test gases - Test pressures - Appliance categories CONSOLIDATED TEXT

Keel: en, et
Alusdokumendid: EN 437:2003+A1:2009
Asendatud järgmise dokumendiga: EVS-EN 437:2018
Standardi staatus: Kehtetu

93 RAJATISED

EVS-EN 14587-1:2007

Railway applications - Track - Flash butt welding of rails - Part 1: New R220, R260, R260Mn and R350HT grade rails in a fixed plant

Keel: en
Alusdokumendid: EN 14587-1:2007
Asendatud järgmise dokumendiga: EVS-EN 14587-1:2018
Standardi staatus: Kehtetu

97 OLME. MEELELAHUTUS. SPORT

EVS-EN 1307:2014+A2:2018

Textile floor coverings - Classification

Keel: en
Alusdokumendid: EN 1307:2014+A2:2018
Asendatud järgmise dokumendiga: EVS-EN 1307:2014+A3:2018
Standardi staatus: Kehtetu

EVS-EN 15288-1:2008+A1:2010

Swimming pools - Part 1: Safety requirements for design CONSOLIDATED TEXT

Keel: en
Alusdokumendid: EN 15288-1:2008+A1:2010
Asendatud järgmise dokumendiga: EVS-EN 15288-1:2018
Standardi staatus: Kehtetu

EVS-EN 15288-2:2008

Swimming pools - Part 2: Safety requirements for operation

Keel: en
Alusdokumendid: EN 15288-2:2008
Asendatud järgmise dokumendiga: EVS-EN 15288-2:2018
Standardi staatus: Kehtetu

EVS-EN 50597:2015

Energy consumption of vending machines

Keel: en
Alusdokumendid: EN 50597:2015
Asendatud järgmise dokumendiga: EVS-EN 50597:2018
Standardi staatus: Kehtetu

EVS-EN 71-14:2014+A1:2017

Mänguasjade ohutus. Osa 14: Batuudid koduseks kasutamiseks
Safety of toys - Part 14: Trampolines for domestic use

Keel: en
Alusdokumendid: EN 71-14:2014+A1:2017
Asendatud järgmise dokumendiga: EVS-EN 71-14:2018
Standardi staatus: Kehtetu

EVS-EN 913:2008

Võimlemisvarustus. Üldised ohutusnõuded ja katsemeetodid
Gymnastic equipment - General safety requirements and test methods

Keel: en
Alusdokumendid: EN 913:2008
Asendatud järgmise dokumendiga: EVS-EN 913:2018
Standardi staatus: Kehtetu

STANDARDIKAVANDITE ARVAMUSKÜSITLUS

Selleks, et tagada standardite vastuvõtmine, järgides konsensuse põhimõtteid, peab standardite vastuvõtmisele eelnema standardikavandite avalik arvamusküsitlus, milleks ettenähtud perioodi jooksul (reeglina 2 kuud) on asjast huvitatuil võimalik tutvuda standardikavanditega, esitada kommentaare ning teha ettepanekuid parandusteks. Eriti on oodatud teave, kui rahvusvahelist või Euroopa standardikavandit ei peaks vastu võtma Eesti standardiks (vastuolu Eesti õigusaktidega, pole Eestis rakendatav jt põhjustel).

Arvamusküsitlusele esitatakse Euroopa ja rahvusvahelised standardikavandid, mis on kavas üle võtta Eesti standarditeks, ja Eesti algupärased standardikavandid ning algupäraste tehniliste spetsifikatsioonide ja juhendite kavandid.

Iga arvamusküsitlusel oleva kavandi kohta on esitatud alljärgnev informatsioon:
• tähis;
• pealkiri;
• käsitlusala;
• keel (en = inglise; et = eesti);
• Euroopa või rahvusvahelise alusdokumendi tähis, selle olemasolul;
• asendusseos, selle olemasolul;
• arvamuste esitamise tähtaeg.

Kavanditega saab tutvuda ja kommentaare esitada Standardikeskuse veebilehel asuvas kommenteerimisportaalis:
https://www.evs.ee/kommenteerimisportaal/

Igal kuul uuendatav teave eestikeelsena avaldatavate Eesti standardite kohta, sh eeldatavad kommenteerimise ja avaldamise tähtpäevad, on leitav Standardikeskuse veebilehel avaldatavast standardimisprogrammist.

01 ÜLDKÜSIMUSED. TERMINOLOOGIA. STANDARDIMINE. DOKUMENTATSIOON

prEN ISO 8560
Technical drawings - Construction drawings - Representation of modular sizes, lines and grids (ISO/FDIS 8560:2018)

This document lays down rules for the representation of modular sizes, lines and grids on construction drawings. The basic module M is 100 mm (see ISO 1006). Generally, modular sizes are for use on design drawings, but can also be added to production drawings for manufacturing, orientation and location.

Keel: en
Alusdokumendid: ISO/FDIS 8560; prEN ISO 8560
Asendab dokumenti: EVS-EN ISO 8560:2000

Arvamusküsitluse lõppkuupäev: 16.02.2019

03 TEENUSED. ETTEVÕTTE ORGANISEERIMINE, JUHTIMINE JA KVALITEET. HALDUS. TRANSPORT. SOTSIOLOOGIA

prEN ISO 22418
Intelligent transport systems - Fast service announcement protocol (FSAP) (ISO 22418:2018)

This document specifies the "Fast Service Announcement Protocol" (FSAP). FSAP is in support of locally advertised ITS services uniquely identified by an ITS application identifier (ITS-AID). This document specifies message formats and related basic protocol procedures by reference to ISO/TS 16460:2016, and further related protocol requirements for operation of FSAP in the context of an ITS station specified in ISO 21217:2014.

Keel: en
Alusdokumendid: ISO 22418:2018; prEN ISO 22418

Arvamusküsitluse lõppkuupäev: 16.02.2019

11 TERVISEHOOLDUS

prEN ISO 7492
Dentistry - Dental explorer (ISO/FDIS 7492:2018)

This document specifies the dimensions and performance requirements for dental explorers. This document is not applicable to endodontic explorers.

Keel: en
Alusdokumendid: ISO/FDIS 7492; prEN ISO 7492
Asendab dokumenti: EVS-EN ISO 7492:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN ISO 9873

Dentistry - Intra-oral mirrors (ISO/FDIS 9873:2018)

This document specifies requirements and test methods for reusable intra-oral mirrors with a coated glass reflecting surface used for dental purposes in the oral cavity. In addition, specific requirements for metallic casing and metallic handles are given.

Keel: en
Alusdokumendid: ISO/FDIS 9873; prEN ISO 9873
Asendab dokumenti: EVS-EN ISO 9873:2017

Arvamusküsitluse lõppkuupäev: 16.02.2019

13 KESKKONNA- JA TERVISEKAITSE. OHUTUS

prEN 14972-8

Fixed firefighting systems - Water mist systems - Part 8- Test protocol for machinery in enclosures exceeding 260 m³ for open nozzle systems

This document specifies fire testing requirements for water mist systems used for fire protection of machinery in enclosures with volumes exceeding 260 m³.

Keel: en
Alusdokumendid: prEN 14972-8

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN 14972-9

Fixed firefighting systems - Water mist systems - Part 9: Test protocol for machinery in enclosures not exceeding 260 m3 for open nozzle systems

This document specifies fire testing requirements for water mist systems used for fire protection of machinery in enclosures with volumes not exceeding 260 m³.

Keel: en
Alusdokumendid: prEN 14972-9

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN 17255-2

Stationary source emissions - Data acquisition and handling systems - Part 2: Specification of requirements on data acquisition and handling systems

This European Standard specifies the performance requirements on data acquisition and handling systems (DAHS) regarding implementation of the procedures defined in EN 17255-1 including — data acquisition; — data processing; — data storage; — data output; — generation of reports; — system functions; — data security; — documentation. This European Standard supports the requirements of EN 14181 and legislation such as the IED and E-PRTR. It does not preclude the use of additional features and functions provided the minimum requirements of this European Standard are met and that these features do not adversely affect data quality, clarity or access. This European Standard does not cover additional requirements for multiplexing systems where gases are sampled from multiple sources.

Keel: en
Alusdokumendid: prEN 17255-2

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN 17340

Stationary source emissions - Determination of mass concentration of fluorinated compounds expressed as HF - Standard reference method

This European Standard specifies a manual method for the determination of the concentration of fluorinated compounds expressed in HF. Two cases are presented: - first case: the measurand is the concentration of hydrofluoric acid and gaseous and bound to particulates fluorides, - second case: the measurand is the concentration of hydrofluoric acid and gaseous fluorides. Three analytical techniques are proposed: ionometry, spectrophotometry and ion-exchange chromatography. This European Standard specifies the performance characteristics to be determined and the performance criteria to be fulfilled when it is used as the Standard Reference Method (SRM) for periodic monitoring and for calibration or control of Automated Measuring Systems (AMS) permanently installed on a stack, for regulatory or other purposes. This document applies to more or less dust-laden flue gases whose HF concentration may vary between 0,1 mg/m3 and 10 mg/m3, at standard conditions of pressure and temperature. The quantification limit of the method is estimated at 0.1 mg/m3 for a sampled volume of 0.1 m3.

Keel: en
Alusdokumendid: prEN 17340; ISO 15713:2006

Arvamusküsitluse lõppkuupäev: 16.02.2019

17 METROLOOGIA JA MÕÕTMINE. FÜÜSIKALISED NÄHTUSED

prEN 15302

Railway Applications - Wheel-rail contact geometry parameters - Definitions and methods for evaluation

This document establishes definitions and evaluation methods for wheel-rail contact geometry parameters influencing the vehicle running dynamic behaviour: - the rolling radius difference between the two wheels of a wheelset (Δr-function) which serves as a basis for all further calculations; - the equivalent conicity function from which are derived: - a single equivalent conicity value for a specified amplitude which is relevant for the assessment of vehicle running stability on straight track and in very large radius curves according to EN 14363; - the nonlinearity parameter which characterizes the shape of this function and is related to the vehicle behaviour particularly in the speed range close to the running stability limit; - the rolling radii coefficient which is used to describe the theoretical radial steering capability of a wheelset in a curved track. Additional information is given about the relationship between the contact angles of the two wheels of a wheelset (Δtanγ-function) and about the roll angle parameter. NOTE Out of the presented parameters only those related to the contact angle are relevant for independently rotating wheels of wheel pairs. Descriptions of possible calculation methods are included in this document. Test case calculations are provided to achieve comparable results and to check the proper implementation of the described algorithms. To validate alternative methods not described in this document acceptance criteria are given for the equivalent conicity function. This includes reference profiles, profile combinations, tolerances and reference results with tolerance limits. This document also includes minimum requirements for the measurement of wheel and rail profiles as well as of the parameters needed for the transformation into a common coordinate system of right- and left-hand profiles. This document does not define limits for the wheel-rail contact geometry parameters and gives no tolerances for the rail profile and the wheel profile to achieve acceptable results. For the application of this document some general recommendations are given.

Keel: en
Alusdokumendid: prEN 15302
Asendab dokumenti: EVS-EN 15302:2008+A1:2010

Arvamusküsitluse lõppkuupäev: 16.02.2019

21 ÜLDKASUTATAVAD MASINAD JA NENDE OSAD

EN ISO 13918:2018/prA1

Welding - Studs and ceramic ferrules for arc stud welding - Amendment 1 (ISO 13918:2017/DAM 1:2018)

Amendment for EN ISO 13918:2018

Keel: en
Alusdokumendid: ISO 13918:2017/DAmd 1; EN ISO 13918:2018/prA1
Muudab dokumenti: EVS-EN ISO 13918:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

23 ÜLDKASUTATAVAD HÜDRO- JA PNEUMOSÜSTEEMID JA NENDE OSAD

EN ISO 14456:2016/prA1

Gas cylinders - Gas properties and associated classification (FTSC) codes - Amendment 1 (ISO 14456:2015/DAM 1:2018)

Amendment for EN ISO 14456:2016

Keel: en
Alusdokumendid: ISO 14456:2015/DAmd 1; EN ISO 14456:2016/prA1
Muudab dokumenti: EVS-EN ISO 14456:2016

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN 16767

Industrial valves - Metallic check valves

This document specifies the general requirements for metallic check valves, which are forged, cast or fabricated in straight, angle or oblique pattern (see EN 736-2) with end connections flanged or wafer, butt welding, socket welding, or threaded. This document applies to metallic check valves used for all industrial applications. Additional requirements given in the relevant application standards may apply to check valves used for more specific applications (e.g. for the water industry, the chemical and petrochemical process industry, the gas distribution industry). Sanitary check valves and back flow prevention anti-pollution check valves are excluded from the scope of this document. The range of nominal sizes covered is: - DN 8, DN 10; DN 12, DN 15; DN 20; DN 25; DN 32; DN 40; DN 50; DN 65; DN 80; DN 100; DN 125; DN 150; DN 200; DN 250; DN 300; DN 350; DN 400; DN 450; DN 500; DN 600; DN 700; DN 750; DN 800; DN 900; DN 1 000; DN 1 200. DN 8 and DN 12 are not used for PN designated flanged end connections. DN 8, DN 10 and DN 12 are not used for Class designated flanged end connections. DN 750 is used for Class designated check valves only. Socket welding end check valves and threaded end check valves are limited to the range DN 8 to DN 65. The range of pressure designations covered is: a) for flanged end and wafer type end cast iron bodies: - PN 2,5; PN 6; PN 10; PN 16; PN 25; - Class 125; Class 250; b) for flanged end, wafer type and butt welding end bodies in steel or copper alloy materials: - PN 2,5; PN 6; PN 10; PN 16; PN 25; PN 40; PN 63; PN 100; PN 160; PN 250; PN 320; PN 400; - Class 150; Class 300; Class 600; Class 900 ; Class 1 500; Class 2 500; c) for socket welding end and threaded end bodies in steel or copper

alloy materials: - PN 40; PN 63; PN 100; - Class 600; Class 800. NOTE Class 800 is a widely used Class designation for socket welding and threaded end check valves. The correspondence between DN and NPS is given for information in Annex B.

Keel: en
Alusdokumendid: prEN 16767
Asendab dokumenti: EVS-EN 16767:2016

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN 17339

Transportable gas cylinders – Fully wrapped carbon composite cylinders and tubes for hydrogen use

This European Standard specifies minimum requirements for the materials, design, construction, prototype testing and routine manufacturing inspections of composite gas cylinders and tubes for compressed hydrogen. This standard applies only to fully wrapped composite cylinders with carbon fibres intended to be permanently mounted in a frame (e.g. bundle or trailer) with a test pressure of not less than 300 bar. NOTE 1 This European Standard does not address the design, fitting and performance of removable protective sleeves. Where these are fitted, they should be considered separately.

Keel: en
Alusdokumendid: prEN 17339

Arvamusküsitluse lõppkuupäev: 16.02.2019

25 TOOTMISTEHNOLOOGIA

EN IEC 61918:2018/prAA:2018

Industrial communication networks - Installation of communication networks in industrial premises

Common modification for EN IEC 61918:2018

Keel: en
Alusdokumendid: EN IEC 61918:2018/prAA:2018
Muudab dokumenti: EVS-EN IEC 61918:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

EN ISO 13918:2018/prA1

Welding - Studs and ceramic ferrules for arc stud welding - Amendment 1 (ISO 13918:2017/DAM 1:2018)

Amendment for EN ISO 13918:2018

Keel: en
Alusdokumendid: ISO 13918:2017/DAmd 1; EN ISO 13918:2018/prA1
Muudab dokumenti: EVS-EN ISO 13918:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN IEC 62135-2:2018

Resistance welding equipment - Part 2: Electromagnetic compatibility (EMC) requirements

This part of IEC 62135 is applicable to equipment for resistance welding and allied processes which are connected to mains supplies with rated voltages up to 1 000 V a.c. r.m.s. This document does not define safety requirements. Resistance welding equipment type tested in accordance with, and which has met the requirements of, this document, is deemed to be in compliance for all applications. The frequency range covered is from 0 Hz to 400 GHz. This product EMC standard for resistance welding equipment takes precedence over all aspects of the generic standards and no additional EMC tests are required or necessary. NOTE 1 Typical allied processes are resistance hard and soft soldering or resistance heating achieved by means comparable to resistance welding equipment. NOTE 2 Limit values are specified for only part of the frequency range. Resistance welding equipment are classified as class A and class B equipment. This part of IEC 62135 specifies a) test methods to be used in conjunction with CISPR 11 to determine radiofrequency (RF) emission; b) relevant standards and test methods for harmonic current emission, voltage fluctuation and flicker. NOTE 3 The limits in this standard cannot, however, provide full protection against interference to radio and television reception when the resistance welding equipment is used closer than 30 m to the receiving antenna(e). NOTE 4 In special cases, when highly susceptible apparatus is being used in close proximity, additional mitigation measures are sometimes employed to further reduce the electromagnetic emissions. This part of IEC 62135 also defines immunity requirements and test methods for continuous and transient, conducted and radiated disturbances including electrostatic discharges. NOTE 5 These requirements do not, however, cover extreme cases which are extremely rare.

Keel: en
Alusdokumendid: IEC 62135-2:201X; prEN IEC 62135-2:2018
Asendab dokumenti: EVS-EN 62135-2:2015

Arvamusküsitluse lõppkuupäev: 16.02.2019

27 ELEKTRI- JA SOOJUSENERGEETIKA

EN 62808:2016/prA1:2018

Nuclear power plants - Instrumentation and control systems important to safety - Design and qualification of isolation devices

Amendment for EN 62808:2016

Keel: en
Alusdokumendid: IEC 62808:2015/A1:2018; EN 62808:2016/prA1:2018
Muudab dokumenti: EVS-EN 62808:2016

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN IEC 60709:2018

Nuclear power plants - Instrumentation, control and electrical power systems important to safety - Separation

This document is applicable to nuclear power plant instrumentation and control (I&C) and electrical systems and equipment, whose functions are required to be independent due to their contribution to: • a redundant or diverse safety group; • different defence in depth levels; • different safety classes and also with non-classified (NC) systems. It is also applicable to temporary installations which are part of those I&C and electrical systems important to safety (for example, auxiliary equipment for commissioning tests and experiments or mobile power supply systems). Clause 7 is intended particularly for electrical isolation, Clause 8 is intended particularly for the cabling and the arrangement of equipment of I&C and electrical systems important to safety. This document applies to I&C and electrical systems of new nuclear power plants and to I&C and electrical upgrading or back-fitting of existing plants. For existing plants see 1.2 and 5.4. Where independence is required by general safety standards such as IAEA safety guides, IEC 61513 (for I&C), IEC 63046 (for electrical systems) and other project constraints, one aspect of achieving this independence is physical separation and electrical isolation between the systems and their equipment that perform safety functions. This document defines the assessments needed and the technical requirements to be met for I&C and electrical systems, equipment or cables for which separation is required. Those means are to achieve adequate physical separation and electrical isolation between redundant sections of a system and between a higher and lower class systems. This separation is needed to prevent or minimise the impact on safety that could result from faults and failures which could be propagated or affect several sections of a system or several systems. The requirements for functions, and their associated systems and equipment, to be independent are normally defined in detail in the project documentation; the method of determining and defining these requirements is not the subject of this document. Following IAEA SSR-2/1 Requirement 21, separation means by physical separation, electrical isolation, functional independence and independence of communication are considered. In this document physical separation and electrical isolation are treated. Functional independence and independence of communication are not considered in this document. More details referring to functional independence, independence from control systems and independence of communication are given in Annex D.

Keel: en
Alusdokumendid: IEC 60709:2018; prEN IEC 60709:2018
Asendab dokumenti: EVS-EN 60709:2010

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN IEC 60964:2018

Nuclear power plants - Control rooms - Design

IEC 60964:2018 establishes requirements for the human-machine interface in the main control rooms of nuclear power plants. The document also establishes requirements for the selection of functions, design consideration and organization of the human-machine interface and procedures which are used systematically to verify and validate the functional design. These requirements reflect the application of human factors engineering principles as they apply to the human-machine interface during plant operational states and accident conditions (including design basis and design extension conditions), as defined in IAEA SSR-2/1 and IAEA NP-T-3.16. This third edition cancels and replaces the second edition published in 2009. This edition constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition: a) to review the usage of the term “task” ensuring consistency between IEC 60964 and IEC 61839; b) to clarify the role, functional capability, robustness and integrity of supporting services for the MCR to promote its continued use at the time of a severe accident or extreme external hazard; c) to review the relevance of the standard to the IAEA safety guides and IEC SC 45A standards that have been published since IEC 60964:2009 was developed; d) to clarify the role and meaning of “task analysis”, e) to further delineate the relationships with derivative standards (i.e. IEC 61227, IEC 61771, IEC 61772, IEC 61839, IEC 62241 and others of relevance to the control room design); f) to consider its alignment with the Human Factors Engineering principles, specifically with the ones of IAEA safety guide on Human Factors (DS-492) to be issued.

Keel: en
Alusdokumendid: IEC 60964:2018; prEN IEC 60964:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN IEC 61500:2018

Nuclear power plants - Instrumentation and control systems important to safety – Data communication in systems performing category A functions

This document establishes requirements for data communication which is used in systems performing category A functions in nuclear power plants. It covers also interface requirements for data communication of equipment performing category A functions with other systems including those performing category B and C functions and functions not important to safety. The scope of this document is restricted to the consideration of data communication within the plant I&C safety systems. It does not cover

communication by telephone, radio, voice, fax, email, public address, etc. The internal operation and the detailed technical specification of data communication equipment are not in the scope of this document. This document is not applicable to the internal connections and data communication of a processor unit, its memory and control logic. It does not address the internal processing of instrumentation and control computer based systems. This document gives requirements for functions and properties of on-line plant data communication by reference to IEC 60880 and IEC 60987, produced within the framework of IEC 61513. It requires categorisation of the communication functions in accordance with IEC 61226, which in turn requires environmental and seismic qualification (i.e., the environment where the safety function is required to operate) according to IEC/IEEE 60780-323 and IEC 60980.

Keel: en
Alusdokumendid: IEC 61500:2018; prEN IEC 61500:2018
Asendab dokumenti: EVS-EN 61500:2011

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN IEC 62465:2018

Nuclear power plants - Instrumentation and control important to safety - Management of ageing of electrical cabling systems

This International Standard provides strategies, technical requirements, and recommended practices for the management of normal ageing of cabling systems that are important to safety in nuclear power plants. The main requirements are presented in the body of this International Standard followed by a number of informative annexes with examples of cable testing techniques, procedures, and equipment that are available for the nuclear industry to use to ensure that ageing degradation will not impact plant safety. This International Standard covers cables and their accessories (e.g., connectors) installed in nuclear power plants (inside and outside the containment). It provides requirements to perform cable testing for the purposes of predictive maintenance, troubleshooting, ageing management, and assurance of plant safety. It is concerned with Instrumentation and Control (I&C) cables, signal cables, and power cables of voltages less than 1 kV. More specifically, this International Standard focuses on in-situ testing techniques that have been established for determining problems in cable conductors (i.e., copper wire) and, to a lesser extent, on insulation material (i.e., polymer). It follows the IEC 62342 standard on “Management of Ageing” that was prepared to provide general guidelines for management of ageing of I&C components in nuclear power plants, including cables. It should be pointed out that cable testing technologies are evolving and new methods are becoming available that are not covered in this International Standard. More specifically, this International Standard covers typical cable testing methods that have been in use in the nuclear power industry over the last decade. It should also be pointed out that a single cable testing technique is unlikely to provide conclusive results, and a reliable diagnosis normally requires a combination of techniques.

Keel: en
Alusdokumendid: IEC 62465:2010; prEN IEC 62465:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN IEC 62646:2018

Nuclear power plants - Control rooms - Computer-based procedures

This standard establishes requirements for the whole life cycle of operating procedures that the designer wishes to computerise. It also provides guidance for making decisions about which types of procedures should be computerised and to what extent. Once computerised, procedures are designated as "computer-based procedures" (CBP).

Keel: en
Alusdokumendid: IEC 62646:2016; prEN IEC 62646:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

33 SIDETEHNIKA

EN IEC 61918:2018/prAA:2018

Industrial communication networks - Installation of communication networks in industrial premises

Common modification for EN IEC 61918:2018

Keel: en
Alusdokumendid: EN IEC 61918:2018/prAA:2018
Muudab dokumenti: EVS-EN IEC 61918:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN IEC 61300-2-54:2018

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-54: Tests - Corrosive atmosphere (mixed gas)

The purpose of this part of IEC 61300 is to assess the corrosive effects of atmospheres polluted with mixed gas on fibre optic devices. It can be considered as a general corrosion test, but it does not predict the performance of a device in use.

Keel: en
Alusdokumendid: IEC 61300-2-54:201X; prEN IEC 61300-2-54:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

35 INFOTEHNOLOOGIA

EN IEC 61918:2018/prAA:2018

Industrial communication networks - Installation of communication networks in industrial premises

Common modification for EN IEC 61918:2018

Keel: en
Alusdokumendid: EN IEC 61918:2018/prAA:2018
Muudab dokumenti: EVS-EN IEC 61918:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN 12896-7

Public transport - Reference data model - Part 7: Driver management

1.1 General Scope of the Standard The main objective of the present standard is to present the Reference Data Model for Public Transport, based on: - the Reference Data Model, EN 12896, known as Transmodel V5.1; - EN 28701:2012, Intelligent transport systems - Public transport - Identification of Fixed Objects in Public Transport (IFOPT), although note that this particular standard has been withdrawn as it is now included within Parts 1 and 2 of this European Standard (EN 12896-1:2016 and EN 12896-2:2016) following their successful publication. incorporating the requirements of: - EN 15531-1 to -3 and CEN/TS 15531-4 and -5: Public transport - Service interface for real-time information relating to public transport operations (SIRI); - CEN/TS 16614-1 and -2: Public transport - Network and Timetable Exchange (NeTEx), in particular the specific needs for long distance train operation. Particular attention is drawn to the data model structure and methodology: - the data model is described in a modular form in order to facilitate the understanding and the use of the model; - the data model is entirely described in UML. The following functional domains are considered: - Network Description: routes, lines, journey patterns, timing patterns, service patterns, scheduled stop points and stop places; - Timing Information and Vehicle Scheduling (runtimes, vehicle journeys, day type-related vehicle schedules); - Passenger Information (planned and real-time); - Fare Management (fare structure, sales, validation, control); - Operations Monitoring and Control: operating day-related data, vehicle follow-up, control actions; - Driver Management: - Driver Scheduling (day-type related driver schedules), - Rostering (ordering of driver duties into sequences according to some chosen methods), - Driving Personnel Disposition (assignment of logical drivers to physical drivers and recording of driver performance); - Management Information and Statistics (including data dedicated to service performance indicators). The data modules dedicated to cover most functions of the above domains will be specified. Several concepts are shared by the different functional domains. This data domain is called "Common Concepts". 1.2 Functional Domain Description The different functional domains (enumerated above) taken into account in the present standard, and of which the data have been represented as the reference model, are described in EN 12896-1, Public transport - Reference data model - Part 1: Common concepts. 1.3 Particular Scope of this Document The present document entitled Public transport - Reference data model - Part 7: Driver management incorporates the following data packages: - Driver Scheduling; - Rostering; - Personnel Disposition; - Driver Control Actions. This document itself is composed of the following parts: - Main document (normative) representing the data model for the concepts shared by the different domains covered by Transmodel, - Annex A (normative), containing the data dictionary, i.e. the list of all the concepts and attribute tables present in the main document together with the definitions, - Annex B (normative), providing a complement to EN 12896-1:2016, particularly useful for Parts 4 to 8 of the Public Transport Reference Data Model; and - Annex C (informative), indicating the data model evolutions.

Keel: en
Alusdokumendid: prEN 12896-7

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN ISO 22418

Intelligent transport systems - Fast service announcement protocol (FSAP) (ISO 22418:2018)

This document specifies the "Fast Service Announcement Protocol" (FSAP). FSAP is in support of locally advertised ITS services uniquely identified by an ITS application identifier (ITS-AID). This document specifies message formats and related basic protocol procedures by reference to ISO/TS 16460:2016, and further related protocol requirements for operation of FSAP in the context of an ITS station specified in ISO 21217:2014.

Keel: en
Alusdokumendid: ISO 22418:2018; prEN ISO 22418

Arvamusküsitluse lõppkuupäev: 16.02.2019

43 MAANTEESÕIDUKITE EHITUS

prEN 721

Leisure accommodation vehicles - Safety ventilation requirements

This document specifies the minimum safety ventilation requirements for leisure accommodation vehicles. It provides alternative methods of calculation or testing of safety ventilation.

Keel: en
Alusdokumendid: prEN 721
Asendab dokumenti: EVS-EN 721:2004

Arvamusküsitluse lõppkuupäev: 16.02.2019

45 RAUDTEETEHNIKA

prEN 15302

Railway Applications - Wheel-rail contact geometry parameters - Definitions and methods for evaluation

This document establishes definitions and evaluation methods for wheel-rail contact geometry parameters influencing the vehicle running dynamic behaviour: - the rolling radius difference between the two wheels of a wheelset (Δr-function) which serves as a basis for all further calculations; - the equivalent conicity function from which are derived: - a single equivalent conicity value for a specified amplitude which is relevant for the assessment of vehicle running stability on straight track and in very large radius curves according to EN 14363; - the nonlinearity parameter which characterizes the shape of this function and is related to the vehicle behaviour particularly in the speed range close to the running stability limit; - the rolling radii coefficient which is used to describe the theoretical radial steering capability of a wheelset in a curved track. Additional information is given about the relationship between the contact angles of the two wheels of a wheelset (Δtanγ-function) and about the roll angle parameter. NOTE Out of the presented parameters only those related to the contact angle are relevant for independently rotating wheels of wheel pairs. Descriptions of possible calculation methods are included in this document. Test case calculations are provided to achieve comparable results and to check the proper implementation of the described algorithms. To validate alternative methods not described in this document acceptance criteria are given for the equivalent conicity function. This includes reference profiles, profile combinations, tolerances and reference results with tolerance limits. This document also includes minimum requirements for the measurement of wheel and rail profiles as well as of the parameters needed for the transformation into a common coordinate system of right- and left-hand profiles. This document does not define limits for the wheel-rail contact geometry parameters and gives no tolerances for the rail profile and the wheel profile to achieve acceptable results. For the application of this document some general recommendations are given.

Keel: en
Alusdokumendid: prEN 15302
Asendab dokumenti: EVS-EN 15302:2008+A1:2010

Arvamusküsitluse lõppkuupäev: 16.02.2019

49 LENNUNDUS JA KOSMOSETEHNIKA

FprEN 3155-080

Aerospace series - Electrical contacts used in elements of connection - Part 080: Contacts size 22 for EN 2997, electrical, male, type A, crimp, class T - Product standard

This document specifies the required characteristics and tests applicable to male electrical contacts 080, type A, crimp, class T, used in elements of connection according to EN 3155 002. It shall be used together with EN 3155 001. The associated female contacts are defined in EN 3155 081.

Keel: en
Alusdokumendid: FprEN 3155-080
Asendab dokumenti: EVS-EN 3155-080:2014

Arvamusküsitluse lõppkuupäev: 16.02.2019

FprEN 3278

Aerospace series - Sleeves, tubular, protruding head, in corrosion resisting steel, passivated (0,25 mm wall thickness)

This document specifies the characteristics and technical requirements for protruding head tubular sleeves, in corrosion resisting steel, which may be plain or provided with a series of annular grooves. Passivated sleeves are for use in aerospace assemblies whose maximum operating temperature does not exceed 650 °C. The operating temperatures for aluminium pigmented sleeves should not exceed 230 °C.

Keel: en
Alusdokumendid: FprEN 3278
Asendab dokumenti: EVS-EN 3278:2012

Arvamusküsitluse lõppkuupäev: 16.02.2019

FprEN 3299

Aerospace series - Shaft-nuts and threaded rings, self-locking, right- or left-hand MJ threads, in heat resisting steel FE-PA2601 (A286), silver plated - Technical specification

This document specifies the characteristics, qualification and acceptance requirements for self locking shaft-nuts and threaded rings, with right- or left-hand MJ threads, in FE-PA2601, silver plated, for aerospace applications. Temperature class: 450 °C). It is applicable whenever referenced.

Keel: en
Alusdokumendid: FprEN 3299
Asendab dokumenti: EVS-EN 3299:2007

Arvamusküsitluse lõppkuupäev: 16.02.2019

FprEN 3685

Aerospace series - Bolts in heat resisting steel FE-PA2601 (A286) - Classification: 1 100 MPa/650 °C - Technical specification

This document specifies the technical, qualification and quality assurance requirements for bolts in material FE-PA2601 (A286) of tensile strength class 1 100 MPa at room temperature, maximum test temperature of material 650 °C. Primarily for aerospace applications it is applicable to such bolts when referenced on the product standard or definition document.

Keel: en
Alusdokumendid: FprEN 3685
Asendab dokumenti: EVS-EN 3685:2008

Arvamusküsitluse lõppkuupäev: 16.02.2019

FprEN 4161

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

This document specifies the characteristics of screws, pan head, offset cruciform recess, normal shank, long thread, in alloy steel, cadmium plated. Classification: 1 100 MPa/235 °C).

Keel: en
Alusdokumendid: FprEN 4161
Asendab dokumenti: EVS-EN 4161:2010
Asendab dokumenti: EVS-EN 4161:2010/AC:2010

Arvamusküsitluse lõppkuupäev: 16.02.2019

53 TÕSTE- JA TEISALDUS-SEADMED

prEN 16307-1

Industrial trucks - Safety requirements and verification - Part 1: Supplementary requirements for self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks

This document gives requirements for the types of industrial trucks specified in the scope of EN ISO 3691-1. This document is intended to be used in conjunction with EN ISO 3691-1. These requirements are supplementary to those stated in EN ISO 3691-1 with the addition of hazards, which can occur when operating in potentially explosive atmospheres. This document covers the following requirements: - electrical requirements; - noise emissions; - vibration; - visibility; - electromagnetic compatibility (EMC). This Edocument defines supplementary requirements to EN ISO 3691-1: - travel speed; - brakes; - travel and breaking controls - Additional operation from alongside pedestrian-controlled and stand-on trucks; - lift chains; - mast tilt and carriage isolation; - operator's seat; - operator restraint device; - protection against crushing, shearing and trapping; - information for use (instruction handbook and marking). Annex A (informative) contains the list of significant hazards covered by this document.

Keel: en
Alusdokumendid: prEN 16307-1
Asendab dokumenti: EVS-EN 16307-1:2013+A1:2015

Arvamusküsitluse lõppkuupäev: 16.02.2019

55 PAKENDAMINE JA KAUPADE JAOTUSSÜSTEEMID

prEN 12640

Intermodal loading units and commercial vehicles - Lashing points for cargo securing — Minimum requirements and testing

This document specifies the minimum requirements and test methods for lashing points for cargo securing on commercial vehicles and intermodal loading units for cargo transport. This document does not apply to: - Vehicles and intermodal loading units manufactured before publication of this standard; - Vehicles and intermodal loading units designed and constructed exclusively for the transport of bulk materials; - Vehicles and intermodal loading units designed and constructed exclusively for the transport of specific cargo with particular securing requirements; - Vehicles (delivery vans) in conformance to ISO 27956; - ISO series 1 freight containers.

Keel: en
Alusdokumendid: prEN 12640
Asendab dokumenti: EVS-EN 12640:2000

Arvamusküsitluse lõppkuupäev: 16.02.2019

65 PÕLLUMAJANDUS

prEN 17344

Agricultural machinery - Self-propelled agricultural and forestry vehicles – Requirements for braking

This document applies to wheeled and track-laying self-propelled agricultural and forestry vehicles. It specifies the definitions, construction and performance requirements and the means for verification of braking systems on vehicles with a maximum design speed not exceeding 60 km/h. Following items are excluded from the scope of this standard: • Coupling force control • Endurance braking systems • Anti-Lock Braking Systems and EBS • Vacuum braking systems • Safety related parts of complex electronic control systems • Trailer Braking control systems

Keel: en
Alusdokumendid: prEN 17344

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN ISO 14820-1

Fertilizers and liming materials - Sampling and sample preparation - Part 1: Sampling (ISO 14820-1:2016)

ISO 14820-1:2016 specifies sampling plans and methods of representative sampling of fertilizers and liming materials to obtain samples for physical and chemical analysis, from packages and containers up to and including 1 000 kg, from fluid products and from fertilizers in bulk provided the product is in motion. It is applicable to the sampling of lots of fertilizer or liming material supplied or ready for supply to third parties, as such, or in smaller lots, each of which would be subject to local, national or regional legislation. Where legislation so requires, samples are taken in accordance with this part of ISO 14820. NOTE The term "fertilizer" is used throughout the body of this document and is taken to include liming materials unless otherwise indicated. This part of ISO 14820 does not cover complete, statistical sampling plans.

Keel: en
Alusdokumendid: ISO 14820-1:2016; prEN ISO 14820-1

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN ISO 14820-2

Fertilizers and liming materials - Sampling and sample preparation - Part 2: Sample preparation (ISO 14820-2:2016)

ISO 14820-2:2016 specifies methods for the reduction and preparation of samples of fertilizers and liming materials and sets out the requirements for sample preparation reports. It also specifies methods for the preparation of test samples and test portions from laboratory samples of fertilizer for subsequent chemical or physical analysis. It does not cover the preparation of samples for certain physical tests which require test portions of more than 2 kg. It is applicable to all fertilizers. NOTE The term "fertilizer" is used throughout the body of this part of ISO 14820 and is taken to include liming materials unless otherwise indicated.

Keel: en
Alusdokumendid: ISO 14820-2:2016; prEN ISO 14820-2

Arvamusküsitluse lõppkuupäev: 16.02.2019

67 TOIDUAINETE TEHNOLOOGIA

prEN 15948

Cereals - Determination of moisture and protein - Method using Near-Infrared-Spectroscopy in whole kernels

This European Standard defines a routine method for the determination of moisture and protein in whole kernels of barley and wheat using a near-infrared spectrophotometer in the constituent ranges: a) for wheat: 1) moisture content minimum range from 8 % to 22 %; 2) protein content minimum range from 7 % to 20 %. b) for barley: 1) moisture content minimum range from 8 % to 22 %; 2) protein content minimum range from 7 % to 16 %. This European Standard describes the modalities to be implemented by the supplier (5.3 and 5.4) and the user of the method.

Keel: en
Alusdokumendid: prEN 15948
Asendab dokumenti: EVS-EN 15948:2015

Arvamusküsitluse lõppkuupäev: 16.02.2019

71 KEEMILINE TEHNOLOOGIA

prEN 12404

Durability of wood and wood-based products - Assessment of the effectiveness of a masonry fungicide to prevent growth into wood of Dry Rot Serpula lacrymans (Schumacher ex Fries) S.F. Gray - Laboratory method

This document specifies a method for determining the performance of a preservative, applied to the upper surface of the mortar test specimens, in preventing the growth of dry rot through the treated mortar when exposed to the test fungus. This method is only applicable to masonry fungicides applied as a true solution of the preservative in water or dilute oil in water emulsion. It is not applicable to rods, pastes and other similar preservative types. This method is applicable to preservatives applied to masonry by brushing, spraying and/or injection techniques or mixed into rendering and plastering mortar for masonry.

Keel: en
Alusdokumendid: prEN 12404
Asendab dokumenti: CEN/TS 12404:2015

Arvamusküsitluse lõppkuupäev: 16.02.2019

73 MÄENDUS JA MAAVARAD

prEVS-ISO 334

Tahked mineraalsed kütused. Üldväävli määramine. Eschka meetod
Solid mineral fuels. Determination of total sulfur. Eschka method (ISO 334:2013, modified)

See rahvusvaheline standard käsitleb üldväävli määramist kivisöes, pruunsöes, ligniidis [MOD], põlevkivis ja poolkoksis ning nende termilise töötlemise ja põletamise tahketes jääkides [EE] [MOD], kasutades Eschka meetodit.

Keel: en
Alusdokumendid: ISO 334:2013

Arvamusküsitluse lõppkuupäev: 16.02.2019

75 NAFTA JA NAFTATEHNOLOOGIA

prEN ISO 4259-3

Petroleum and related products - Precision of measurement methods and results - Part 3: Monitoring and management of precision data in relation to methods of test (ISO/DIS 4259-3:2018)

This International Standard specifies the methodology for the regular monitoring of the test method precision achieved versus precision published in the standard test method using data from Proficiency Testing Programs (PTP) supported by the regular users of standard test methods. The procedures in this International Standard are designed specifically for PTPs conducted on standard test methods for petroleum and petroleum related products, which are presumed to be homogeneous. The procedures in this document are designed specifically for standard test methods with published reproducibility derived from ISO 4259-1 or equivalent (such as ASTM D6300[1]) for petroleum and petroleum related products, which are normally considered as homogeneous. In particular, this document specifies the methodology for the statistical comparison of standard deviation under reproducibility conditions achieved in PTP versus that published. Purpose of this comparison is to ascertain if the published reproducibility precision is representative of that achievable by the regular participants in the PTP.

Keel: en
Alusdokumendid: ISO/DIS 4259-3; prEN ISO 4259-3

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEVS-ISO 334

Tahked mineraalsed kütused. Üldväävli määramine. Eschka meetod
Solid mineral fuels. Determination of total sulfur. Eschka method (ISO 334:2013, modified)

See rahvusvaheline standard käsitleb üldväävli määramist kivisöes, pruunsöes, ligniidis [MOD], põlevkivis ja poolkoksis ning nende termilise töötlemise ja põletamise tahketes jääkides [EE] [MOD], kasutades Eschka meetodit.

Keel: en
Alusdokumendid: ISO 334:2013

Arvamusküsitluse lõppkuupäev: 16.02.2019

77 METALLURGIA

prEN 573-3

Aluminium and aluminium alloys - Chemical composition and form of wrought products - Part 3: Chemical composition and form of products

This document specifies the chemical composition limits of wrought aluminium and wrought aluminium alloys and form of products. NOTE The chemical composition limits of aluminium and aluminium alloys specified herein are completely identical with those registered with the Aluminium Association, 1525, Wilson Boulevard, Suite 600, Arlington, VA 22209, USA, for the corresponding alloys.

Keel: en
Alusdokumendid: prEN 573-3
Asendab dokumenti: EVS-EN 573-3:2013

Arvamusküsitluse lõppkuupäev: 16.02.2019

83 KUMMI- JA PLASTITÖÖSTUS

prEN ISO 20028-1

Plastics - Thermoplastic polyester (TP) moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO/DIS 20028-1:2018)

This document establishes a system of designation for thermoplastic polyester (TP) material, which can be used as the basis for specifications. It covers polyester homopolymers for moulding and extrusion based on poly(ethylene terephthalate) (PET),

poly(butylene terephthalate) (PBT), poly(cyclohexylenedimethylene terephthalate) (PCT), poly(ethylene naphthalate) (PEN), poly(butylene naphthalates) (PBN) and other TP-types and copolyesters of various compositions for moulding and extrusion. The types of thermoplastic polyester are differentiated from each other by a classification system based on appropriate levels of the designatory properties: a) viscosity number; b) tensile modulus of elasticity; and on information about the intended application and/or method of processing, important properties, additives, colorants, fillers and reinforcing materials. This designation system is applicable to thermoplastic polyester homopolymers and copolymers. It applies to materials ready for normal use in the form of powder, granules or pellets, unmodified or modified by colorants, fillers and other additives. This document does not apply to the saturated polyester/ester and polyether/ester thermoplastic elastomers covered by ISO 20029. It is not intended to imply that materials having the same designation give necessarily the same performance. This document does not provide engineering data, performance data or data on processing conditions which can be required to specify a material. If such additional properties are required, they are intended to be determined in accordance with the test methods specified in ISO 20028-2, if suitable. In order to designate a thermoplastic polyester material to meet particular specifications, the requirements are to be given in data block 5 (see 4.1).

Keel: en
Alusdokumendid: prEN ISO 20028-1; ISO/DIS 20028-1:2018
Asendab dokumenti: EVS-EN ISO 20028-1:2017

Arvamusküsitluse lõppkuupäev: 16.02.2019

85 PABERITEHNOLOOGIA

prEN ISO 12625-11

Tissue paper and tissue products - Part 11: Determination of wet ball burst strength

This part of ISO 12625 specifies a test method for the determination of the resistance to mechanical penetration (ball burst strength procedure) of tissue paper and tissue products after wetting.

Keel: en
Alusdokumendid: ISO/FDIS 12625-11; prEN ISO 12625-11

Arvamusküsitluse lõppkuupäev: 16.02.2019

91 EHITUSMATERJALID JA EHITUS

EN 13230-4:2016/prA1

Railway applications - Track - Concrete sleepers and bearers - Part 4: Prestressed bearers for switches and crossings

This part of the EN 13230 series defines additional technical criteria and control procedures as well as specific tolerance limits related to manufacturing and testing prestressed bearers for switches and crossings with a maximum length of 8,5 m. Bearers longer than 8,5 m are considered as special elements and will comply with FprEN 13230 5:2015.

Keel: en
Alusdokumendid: EN 13230-4:2016/prA1
Muudab dokumenti: EVS-EN 13230-4:2016

Arvamusküsitluse lõppkuupäev: 16.02.2019

93 RAJATISED

EN 13230-4:2016/prA1

Railway applications - Track - Concrete sleepers and bearers - Part 4: Prestressed bearers for switches and crossings

This part of the EN 13230 series defines additional technical criteria and control procedures as well as specific tolerance limits related to manufacturing and testing prestressed bearers for switches and crossings with a maximum length of 8,5 m. Bearers longer than 8,5 m are considered as special elements and will comply with FprEN 13230 5:2015.

Keel: en
Alusdokumendid: EN 13230-4:2016/prA1
Muudab dokumenti: EVS-EN 13230-4:2016

Arvamusküsitluse lõppkuupäev: 16.02.2019

EN 16704-1:2016/prA1

Railway applications - Track - Safety protection on the track during work - Part 1: Railway risks and common principles for protection of fixed and mobile work sites

Amendment for EN 16704-1:2016

Keel: en
Alusdokumendid: EN 16704-1:2016/prA1
Muudab dokumenti: EVS-EN 16704-1:2016

Arvamusküsitluse lõppkuupäev: 16.02.2019

EN 16704-3:2016/prA1

Railway applications - Track - Safety protection on the track during work - Part 3: Competences for personnel related to work on or near tracks

This European Standard defines the activities related to work on or near the railway track and the associated competence profiles of persons who carry out these activities and defines procedures for assessing the competence.

Keel: en
Alusdokumendid: EN 16704-3:2016/prA1
Muudab dokumenti: EVS-EN 16704-3:2016

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN 12802

Road marking materials - Laboratory methods for identification

This document specifies laboratory methods for the identification of road marking materials used in horizontal signalization. It is not necessary, unless required, to perform all of the tests described.

Keel: en
Alusdokumendid: prEN 12802
Asendab dokumenti: EVS-EN 12802:2011

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN 1824

Road marking materials - Road trials

This document specifies the requirements for conducting road trials for road marking materials intended for use in both permanent and temporary road marking. Details are given for test sites, for the application of road marking materials on the test sites, for the parameters to be measured and the frequency of the measurements and for the presentation of the results in the form of a test report.

Keel: en
Alusdokumendid: prEN 1824
Asendab dokumenti: EVS-EN 1824:2011

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN 1871

Road marking materials - Paint, thermoplastic and cold plastic materials - Physical properties

This document covers testing of physical properties of road marking materials by laboratory methods. The products covered and specified by this document are white and yellow paint, thermoplastic and cold plastic materials, with or without premix glass beads, to be used for permanent and/or temporary road markings on highways and other areas used by vehicular traffic. Other products and colours intended for road markings are not covered in this document. It is not essential that all physical properties listed in this document are specified.

Keel: en
Alusdokumendid: prEN 1871
Asendab dokumenti: EVS-EN 1871:2000

Arvamusküsitluse lõppkuupäev: 16.02.2019

97 OLME. MEELELAHUTUS. SPORT

FprEN 60730-2-9:2016/prA2:2018

Elektrilised automaatjuhtimisseadmed. Osa 2-9: Erinõuded temperatuuriandur-juhtimisseadistele
Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control

Amendment for prEN 60730-2-9

Keel: en
Alusdokumendid: IEC 60730-2-9:2015/A2:201X; FprEN 60730-2-9:2016/prA2:2018
Muudab dokumenti: FprEN 60730-2-9:2014

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN IEC 62885-8:2018

Surface cleaning appliances - Part 8: Dry vacuum cleaners for commercial use - Methods for measuring the performance

This part of IEC 62885 is applicable for measurements of the performance of mains-operated dry vacuum cleaners, including water filter vacuum cleaners, for commercial use. The purpose of this document is to specify essential performance characteristics of dry vacuum cleaners for commercial use which are of interest to operators and to describe methods for measuring these characteristics. NOTE 1 Due to the influence of environmental conditions, variations in time, origin of test materials and proficiency

of the operator, some of the described test methods will give more reliable results when applied for comparative testing of a number of appliances at the same time, in the same laboratory and by the same operator. NOTE 2 The methods here can be applied with modifications for surface-cleaning product types or technologies not currently covered within the scope. For safety requirements, reference is made to IEC 60335-1 and IEC 60335-2-69.

Keel: en
Alusdokumendid: IEC 62885-8:201X; prEN IEC 62885-8:2018

Arvamusküsitluse lõppkuupäev: 16.02.2019

prEN IEC/ASTM 62885-6

Surface cleaning appliances - Part 6: Wet hard floor cleaning appliances for household or similar use - Methods for measuring the performance

This International Standard is applicable for measurements of the performance of wet hard floor cleaning appliances for household use in or under conditions similar to those in households. In the case of appliances with combined functionality, this standard only addresses the wet cleaning functionality. The purpose of this standard is to specify essential performance characteristics of wet hard floor cleaning appliances which are of interest to users and to describe methods for measuring these characteristics. NOTE 1 Due to the influence of environmental conditions, variations in time, origin of test materials and proficiency of the operator, most of the described test methods will give more reliable results when applied for comparative testing of a number of appliances at the same time, in the same laboratory and by the same operator. NOTE 2 This standard is not intended for cordless and robotic wet hard floor cleaning appliances. For safety requirements, reference is made to IEC 60335-1, IEC 60335-2-2, IEC 60335-2-10, and IEC 60335-2-54. A recommendation on information for the consumer at the point of sale is given in Annex B.

Keel: en
Alusdokumendid: IEC/ASTM 62885-6:2018; prEN IEC/ASTM 62885-6

Arvamusküsitluse lõppkuupäev: 16.02.2019

TÕLKED KOMMENTEERIMISEL

Selles jaotises avaldame teavet eesti keelde tõlgitavate Euroopa või rahvusvaheliste standardite ja standardilaadsete dokumentide kohta ja inglise keelde tõlgitavate algupäraste Eesti standardite ja dokumentide kohta.

Tõlgetega tutvumiseks võtta ühendust EVS-i standardiosakonnaga: standardiosakond@evs.ee, ostmiseks klienditeenindusega: standard@evs.ee.

Igal kuul uuendatav teave eestikeelsena avaldatavate Eesti standardite kohta, sh eeldatavad kommenteerimise ja avaldamise tähtpäevad, on leitav Standardikeskuse veebilehel avaldatavast standardimisprogrammist.

EVS-EN ISO 11699-2:2018

Tööstuslik radiograafiline film. Osa 2: Filmi ilmutusprotsessi kontrollimine referentsväärtuste kaudu

Antud dokument määratleb filmi ilmutussüsteemide kontrolli metoodika.

Keel: et
Alusdokumendid: ISO 11699-2:2018; EN ISO 11699-2:2018

Kommenteerimise lõppkuupäev: 17.01.2019

EVS-EN ISO 22825:2017

Keevisõmbluste mittepurustav katsetamine. Katsetamine ultraheliga. Austeniitsete teraste ja niklil põhinevate sulamite keevisõmbluste katsetamine

Käesolevas dokumendis määratakse kindlaks meetod, mida tuleb järgida järgmiste keevisõmbluste ultrahelikatsete protseduuri väljatöötamisel: -keevised roostevabades terastes; -keevised niklil põhinevates sulamites; -keevised dupleksterastes; -keevised segaliidetes; -austeniitsed keevised. Katse eesmärgid võivad olla väga erinevad, näiteks: -kvaliteedi hindamiseks (tootmine); -kasutusest tulenevate spetsiifiliste vigade avastamiseks. Selles dokumendis ei sisalda aktsepteerimise tasemeid, kuid neid võib kohaldada vastavalt katse ulatusele (vt 4.1). Käesoleva dokumendi nõudeid kohaldatakse nii käsitsi kui mehhaniseeritud katsetamisele.

Keel: et
Alusdokumendid: ISO 22825:2017; EN ISO 22825:2017

Kommenteerimise lõppkuupäev: 17.01.2019

prEVS-EN 12193

Valgus ja valgustus. Spordivalgustus

See Euroopa standard määratleb valgustusnõuded nii sise- kui ka välis-spordisündmuste kohta, mida Euroopas enamasti praktiseeritakse. See standard arvestab üksnes tehisvalgustust. See sätestab spordivalgustuspaigaldiste projekteerimisel ja juhtimisel kasutatavate valgussuuruste väärtused valgustustiheduse, valgustuse ühtluse, räiguse piiramise ja valgusallikate värviomaduste kaudu. Kõik nõuded on mõeldud minimaalnõuetena. Standard esitab ka meetodid, mil viisil neid väärtusi mõõdetakse. Räiguse piiramisel määratleb see ka piirangud spetsiifilise rakendusega valgustite paiknemise kohta. Hädavalgustuse alal arvestab see standard standardi EN 1838 nõudeid.

Keel: et
Alusdokumendid: EN 12193:2018

Kommenteerimise lõppkuupäev: 17.01.2019

prEVS-EN 14081-2

Puitkonstruktsioonid. Nelinurkse ristlõikega tugevussorditud ehituspuit. Osa 2: Masinsortimine. Täiendavad nõuded esmasteks tüübikatsetusteks

See dokument määrab kindlaks lisaks standardis EN 14081-1 antule nõuded nelinurkse ristlõikega saagimisega, hööveldamisega või muu meetodiga vormitud ja standardile EN 336 vastava sihtmõõtmete hälbega tugevussorditud ehituspuidu tüübikatsetustele. See sisaldab nõudeid tugevussortimise masinatele.

Keel: et
Alusdokumendid: EN 14081-2:2018

Kommenteerimise lõppkuupäev: 17.01.2019

prEVS-HD 60364-8-2

Madalpingelised elektripaigaldised. Osa 8-2: Tootevtarbijate madalpingelised elektripaigaldised

Standardi IEC 60364 käesolev osa esitab projekteerimise, ehitamise ja kontrollimise lisanõuded, meetmed ning soovitused kõigi standardi IEC 60364-1:2005 jaotisele 11 vastavate madalpingeliste elektripaigaldiste kohta, sealhulgas kohalike energiatootmis- ja/või salvestuspaigaldiste kohta. Selle tegevuse eesmärgiks on tagada ühilduvus olemasolevate ja tulevikus kasutusele võetavate elektritarvitite või avalikku elektrivõrku elektrit edastatavate kohalike energiaallikatega. Niisuguseid elektripaigaldisi nimetatakse tootevtarbijate elektripaigaldisteks (PEI). Selles standardis esitatakse ka tootevtarbijate elektripaigaldiste asjakohase käitumise ja tegevuse nõuded selleks, et tarkvõrku lõimimisel tõhusalt tagada nende paigaldiste kestlik ja ohutu talitlus. Käesolevaid nõudeid ja soovitusi rakendatakse standardi IEC 60364 (kõik osad) käsitlusala ulatuses uute paigaldiste rajamisel ja olemasolevate paigaldiste rekonstrueerimisel. MÄRKUS Ohutu talitluse elektrisüsteemid, sh kaasnevad elektripaigaldised ja

katkematut elektrivarustust tagavad ooteoleku elektrivarustussüsteemid, mida kasutatakse ainult vahetevahel lühikese ajavahemiku kestel (nt ühe tunni jooksul kuus) testimise otstarbel rööbiti jaotusvõrguga, ei kuulu selle standardi käsitlusalasse.

Keel: et
Alusdokumendid: IEC 60364-8-2:2018; HD 60364-8-2:2018

Kommenteerimise lõppkuupäev: 17.01.2019

prHD 60364-8-1:2018

Madalpingelised elektripaigaldised. Osa 8-1: Energiatõhusus

IEC 60364 käesolev osa näeb ette lisanõuded, -meetmed ja -soovitused igat liiki madalpingeliste elektripaigaldiste, sealhulgas kohalike energiatootmise ja -salvestussüsteemide projekteerimisel, ehitamisel, talitlusel ja kontrollil elektrienergia kasutamise üldise tõhususe optimeerimiseks. Käesolev standard tutvustab energiatõhususe haldamise raamistikus nõudeid ja soovitusi elektripaigaldise projekteerimiseks ja energiatõhususe hindamiseks, et tagada jätkuvalt parim, funktsionaalselt samaväärne talitlus väiksema energiatarbimise ja parima võimaliku energia varustuskindluse ning majandusliku tasakaalu juures. Need nõuded ja soovitused on rakendatavad standardi IEC 60364 (kõik osad) käsitlusala raamides uute paigaldiste kohta ja olemasolevate paigaldiste uuendamisel. Käesolev standard on rakendatav ka ehitise või süsteemi elektripaigaldise korral, kuid pole rakendatav toodete puhul. Toodete energiatõhusus ja talitlusnõuded on esitatud vastavates tootestandardites. Kui mõni muu standard annab erinõuded eripaigaldiste või erisüsteemide jaoks (nt ISO 20140 kõik osad), võivad selle nõuded asendada käesoleva standardi nõudeid. See standard ei ole spetsiaalselt ette nähtud ehitiste automaatikasüsteemide kohta. MÄRKUS See dokument on esmajoones mõeldud kasutamiseks rühma energiatõhususe (EE) standardina, vastavalt IEC juhistes 119 ja 118 esitatud põhimõtetele.

Keel: et
Alusdokumendid: IEC 60364-8-1:201X; prHD 60364-8-1:2018

Kommenteerimise lõppkuupäev: 17.01.2019

TEADE EUROOPA STANDARDI OLEMASOLUST

Selles rubriigis avaldame teavet Euroopa standardite ja CENELEC-i harmoneerimisdokumentide kohta, mille on Standardikeskusele kättesaadavaks teinud Euroopa standardimisorganisatsioonid, ja mille Eesti standardina avaldamiseks on vajalik täiendav ettevalmistusaeg. Selliste teadete avaldamine võib olla vajalik, et tagada Euroopa standardite jõustumine Eesti standardina samal ajal nii eesti- kui ka ingliskeelsena.

Igal kuul uuendatav teave eestikeelsena avaldatavate Eesti standardite kohta, sh eeldatavad kommenteerimise ja avaldamise tähtpäevad, on leitav Standardikeskuse veebilehel avaldatavast standardimisprogrammist. Lisateave standardiosakonnast: standardiosakond@evs.ee.

EN 50470-1:2006/A1:2018

Elektrimõõteseadmed vahelduvvoolule. Osa 1: Üldnõuded, katsetused ja katsetingimused. Klassidesse A, B ja C kuuluvad arvestid
Electricity metering equipment (a.c.) - Part 1: General requirements, tests and test conditions - Metering equipment (class indexes A, B and C)

Eeldatav avaldamise aeg Eesti standardina 04.2019

EN 50470-2:2006/A1:2018

Elektrimõõteseadmed vahelduvvoolule. Osa 2: Erinõuded. Elektromehaanilised aktiivenergia arvestid (klass A ja B)
Electricity metering equipment (a.c.) - Part 2: Particular requirements - Electromechanical meters for active energy (class indexes A and B)

Eeldatav avaldamise aeg Eesti standardina 04.2019

EN 50470-3:2006/A1:2018

Elektrimõõteseadmed vahelduvvoolule. Osa 3: Erinõuded. Staatilised aktiivenergia arvestid (klass A, B ja C)
Electricity metering equipment (a.c.) - Part 3: Particular requirements - Static meters for active energy (class indexes A, B and C)

Eeldatav avaldamise aeg Eesti standardina 04.2019

EN 10058:2018

Kuumvaltsitud latt-terased ja laiad tasaterastooted üldiseks otstarbeks Mõõtmed, kujumõõtmed ja -tolerantsid
Hot rolled flat steel bars and steel wide flats for general purposes - Dimensions and tolerances on shape and dimensions

Eeldatav avaldamise aeg Eesti standardina 02.2019

EN 12193:2018

Light and lighting - Sports lighting

Eeldatav avaldamise aeg Eesti standardina 04.2019

UUED EESTIKEELSED STANDARDID JA STANDARDILAADSED DOKUMENDID

Igal kuul uuendatav teave eestikeelsena avaldatavate Eesti standardite kohta, sh eeldatavad kommenteerimise ja avaldamise tähtpäevad, on leitav Standardikeskuse veebilehel avaldatavast standardimisprogrammist.

EVS-EN 358:2018

Tööasendi- ja kukkumiskaitsevahendid. Vööd ja turvaliinid tööasendi tagamiseks või liikumisulatuse piiramiseks
Personal protective equipment for work positioning and prevention of falls from a height - Belts and lanyards for work positioning or restraint

See dokument käsitleb tööasendi tagamiseks või liikumisulatuse piiramiseks mõeldud vöösid ja turvaliine. Selles on täpsustatud nõuded, katsed, märgistus ja tootja kasutusjuhend. See dokument ei hõlma fikseeritud pikkusega turvaliine, mis pole vööga integreeritud. MÄRKUS Liikumisulatust piiravaid fikseeritud pikkusega turvaliine, mis pole vööga integreeritud, käsitletakse standardis EN 354.

EVS-EN 363:2018

Kukkumisvastased isikukaitsevahendid. Kukkumiskaitsesüsteemid
Personal fall protection equipment - Personal fall protection systems

Selles dokumendis kirjeldatakse kukkumiskaitsesüsteemide üldisi omadusi ja nende kokkupanekut. Selles on toodud näited spetsiifilistest kukkumiskaitsesüsteemidest ja kirjeldatud, kuidas osadest süsteeme kokku panna.

EVS-EN 50341-2-20:2018

Elektriõhuliinid vahelduvpingega üle 1 kV. Osa 2-20: Eesti siseriiklikud erinõuded (SEN)
Overhead electrical lines exceeding AC 1 kV - Part 2-20: National Normative Aspects (NNA) for Estonia (based on EN 50341-1:2012)

Standard EN 50341-1 (osa 1) rakendub Eestis ainult koos selle standardiga EN 50341-2-20, mis sisaldab Eesti siseriiklikke erinõudeid. See standard rakendub kõigile uutele õhuliinidele vahelduvnimipingega üle 1 kV ja ka õhukaablitega madalpingeõhuliinidele (vahelduvnimipingega alla 1 kV). Ehituslikus osas rakendub see ka alalisvooluõhuliinidele, mille elektrilised nõuded on sätestatud projekti erinõuetega.

EVS-EN 71-14:2018

Mänguasjade ohutus. Osa 14: Batuudid koduseks kasutamiseks
Safety of toys - Part 14: Trampolines for domestic use

See dokument määrab kindlaks nõuded ja katsemeetodid batuutidele koduseks kasutuseks, nende juurdepääsuseadmed ja tarandikud, mis on mõeldud välis- ja/või sisekasutuseks korraga ühe isiku poolt. Selle standardi käsitlusalast jäävad välja — batuudid, mida kasutatakse võimlemisvahenditena, mida hõlmatakse standardiga EN 13219:2008; — voolavad täispuhutavad batuudid, mida hõlmatakse standardisarjaga EN ISO 25649:2017; — batuudid, mida kasutatakse avalikel mänguväljakutel; — kalde all matiga batuudid; — täispuhutavad batuudid; — kehatreeninguks mõeldud batuudid, kaasa arvatud meditsiinilise otstarbega batuudid; — lisarajatistega batuudid, nt telgid, korvpallirõngas.

EVS-EN ISO 17640:2018

Keevisõmbluste mittepurustav katsetamine. Ultraheliga katsetamine. Meetodid, katsetasemed ja hindamine
Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment (ISO 17640:2018)

See dokument määratleb käsitsi sooritatava ultraheliga katsetamise meetodid metalsetest materjalidest sulakeevitatud liidetele, materjali paksusega 8 mm või rohkem, millel on väike ultraheli sumbuvus (eriti hajuvuse tõttu) katseobjekti temperatuurivahemikus 0 °C kuni 60 °C. Peamiselt on see mõeldud kasutamiseks täieliku läbikeevitusega keevisliidete kontrolliks, mille põhimaterjal ja keevisõmblus on ferriitse struktuuriga. Selles dokumendis toodud materjalipõhised ultraheli väärtused põhinevad terastel, milles on ultraheli levikukiirus (5920 ± 50) m/s pikilainete korral ning (3255 ± 30) m/s ristilainete korral. See dokument määratleb neli katsetaset, millest igaüks vastab defektide avastamise erinevale tõenäosusele. Juhised katsetasemete A, B ja C valikuks on toodud lisas A. See dokument määratleb, et katsetaseme D nõuded, mis on mõeldud kasutamiseks erijuhtude korral, on vastavuses üldnõuetega. Katsetaset D võib kasutada vaid juhul, kui nii on määratud tehnilises spetsifikatsioonis. See hõlmab mitteferriitse struktuuriga metallide katseid, katseid osalise läbikeevitusega liidetel, automatiseeritud seadmetega katseid ning katseid objekti temperatuuridel väljaspool vahemikku 0 °C kuni 60 °C. Seda dokumenti võib kasutada näitude hindamiseks aktsepteerimise otstarbel, kasutades ühte kahest meetodist: a) hindamine, mis põhineb peamiselt signaali näidu pikkusel ning kaja amplituudil; b) hindamine, mis põhineb näidu kirjeldamisel ning selle suuruse hindamisel sondi liigutamisega.

EVS-EN ISO 50001:2018

Energiajuhtimissüsteemid. Nõuded koos rakendamisjuhistega
Energy management systems - Requirements with guidance for use (ISO 50001:2018)

See dokument määratleb nõuded energiajuhtimissüsteemi (EJS-i) sisseseadmiseks, elluviimiseks, toimivana hoidmiseks ja parendamiseks. Kavatsetud väljund tagab, et organisatsioon järgib süstemaatilist lähenemisviisi energiatulemuslikkuse ja EJS-i

järjepideva parendamise saavutamisel. See dokument a) on kohaldatav kõikidele organisatsioonidele, sõltumata nende tüübist, suurusest, keerukusest, geograafilisest asukohast, organisatsiooni kultuurist või pakutavatest toodetest ja teenustest; b) on kohaldatav organisatsiooni poolt juhitud ja ohjatud tegevustele, mis mõjutavad energiatulemuslikkust; c) on kohaldatav sõltumata tarbitava energia kogusest, kasutusest või liigist; d) nõuab energiatulemuslikkuse järjepideva parendamise näitamist, kuid ei määratle energiatulemuslikkuse parendamise tasemeid, mida saavutada; e) võib olla kasutatud iseseisvalt või joondatud või lõimitud teiste juhtimissüsteemidega. Lisa A pakub juhised selle dokumendi kasutamiseks. Lisa B pakub võrdluse selle väljaande ja eelmise väljaande vahel.