

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

2/2019    veljača, 2019.

Oglasnik za normativne dokumente Hrvatskog zavoda za norme sadrži popise hrvatskih norma, nacrtu hrvatskih norma, prijedloga za prihvaćanje stranih norma u izvorniku, povučene hrvatske norme, povučene nacrtu hrvatskih norma te ispravke, rezultate europske i međunarodne normizacije razvrstane po predmetnom ustroju i obavijesti HZN-a.

Tko u popisima normativnih dokumenata koji su objavljeni u ovom Oglasniku otkrije koju grešku, koja može voditi do krive primjene, moli se da o tome neodložno obavijesti Hrvatski zavod za norme, kako bi se mogli otkloniti uočeni propusti.

Izdavač:



HZN

**Hrvatski zavod za norme**  
Croatian Standards Institute

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# 1 Rezultati hrvatske normizacije

## 1.1 Hrvatske norme

Temeljem Zakona o normizaciji (Narodne novine 80/2013) hrvatske norme priprema, izdaje i objavljuje Hrvatski zavod za norme, na prijedlog tehničkih odbora.

Hrvatske norme mogu nastati na ova četiri načina:

- prihvaćanjem stranih (međunarodnih/europskih/nacionalnih) norma uz prevođenje na hrvatski jezik (pp)
- prihvaćanjem stranih norma u izvorniku s hrvatskim ovitkom (po)
- prihvaćanjem stranih norma u izvorniku objavom obavijesti o prihvaćanju (pr)
- izradbom izvorne hrvatske norme (izv).

Oznaka načina prihvaćanja navedena je uz referencijsku oznaku hrvatske norme. Hrvatske su norme zainteresiranima na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

### HZN/TO 6, *Papir, karton i pulpe*

HRN EN ISO 7263-1:2019 en pr  
Valoviti sloj – Određivanje otpornosti valovitog sloja na pritisak poslije izrade vala u laboratoriju – 1. dio: A-val (ISO 7263-1:2018; EN ISO 7263-1:2019)  
Corrugating medium – Determination of the flat crush resistance after laboratory fluting – Part 1: A-flute (ISO 7263-1:2018; EN ISO 7263-1:2019)

HRN EN ISO 7263-2:2019 en pr  
Valoviti sloj – Određivanje otpornosti valovitog sloja na pritisak poslije izrade vala u laboratoriju – 2. dio: B-val (ISO 7263-2:2018; EN ISO 7263-2:2019)  
Corrugating medium – Determination of the flat crush resistance after laboratory fluting – Part 2: B-flute (ISO 7263-2:2018; EN ISO 7263-2:2019)

### HZN/TO 22, *Cestovna vozila*

HRN EN ISO 15118-4:2019 en pr  
Cestovna vozila – Komunikacijsko sučelje između vozila i električne mreže – 4. dio: Provjera usklađenosti mreže i protokola primjene (ISO 15118-4:2018; EN ISO 15118-4:2019)  
Road vehicles – Vehicle to grid communication interface – Part 4: Network and application protocol conformance test (ISO 15118-4:2018; EN ISO 15118-4:2019)

HRN EN ISO 15118-5:2019 en pr  
Cestovna vozila – Komunikacijsko sučelje između vozila i električne mreže – 5. dio: Provjera usklađenosti fizičkog sloja i sloja podatkovne mreže (ISO 15118-5:2018; EN ISO 15118-5:2019)  
Road vehicles – Vehicle to grid communication interface – Part 5: Physical layer and data link layer conformance test (ISO 15118-5:2018; EN ISO 15118-5:2019)

HRN EN ISO 15118-8:2019 en pr  
Cestovna vozila – Komunikacijsko sučelje između vozila i električne mreže – 8. dio: Zahtjevi za fizički sloj i sloj podatkovne mreže za bežičnu komunikaciju (ISO 15118-8:2018; EN ISO 15118-8:2019)  
Road vehicles – Vehicle to grid communication interface – Part 8: Physical layer and data link layer requirements for wireless communication (ISO 15118-8:2018; EN ISO 15118-8:2019)

### HZN/TO 108, *Mehaničke vibracije i udari*

HRN ISO 2631-1:1999/A1:2019 en pr  
Mehaničke vibracije i udari – Ocjenjivanje izloženosti ljudi vibracijama cijeloga tijela – 1. dio: Opći zahtjevi (ISO 2631-1:1997/Amd 1:2010)  
Mechanical vibration and shock – Evaluation of human exposure to whole-body vibration – Part 1: General requirements (ISO 2631-1:1997/Amd 1:2010)

HRN ISO 8727:1999/A1:2019 en pr  
Mehaničke vibracije i udari – Izloženost ljudi – Biodinamički koordinatni sustavi (ISO 8727:1997/Amd 1:2015)  
Mechanical vibration and shock – Human exposure – Biodynamic coordinate systems (ISO 8727:1997/Amd 1:2015)

HRN ISO 10816-6:2000/A1:2019 en pr  
Mehaničke vibracije – Procjena vibracija strojeva mjerenjem na nerotirajućim dijelovima – 6. dio: Stapni strojevi snage veće od 100 kW (ISO 10816-6:1995/Amd 1:2015)  
Mechanical vibration – Evaluation of machine vibration by measurements on non-rotating parts – Part 6: Reciprocating machines with power ratings above 100 kW (ISO 10816-6:1995/Amd 1:2015)

HRN EN ISO 10819:2013/A1:2019 en pr  
Mehaničke vibracije i udari – Vibracije ruke – Metoda mjerenja i vrednovanje prenosa vibracija rukavica na dlan ruke (ISO 10819:2013/Amd 1:2019; EN ISO 10819:2013/A1:2019)  
Mechanical vibration and shock – Hand-arm vibration – Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand (ISO 10819:2013/Amd 1:2019; EN ISO 10819:2013/A1:2019)

HRN ISO 16063-1:1999/A1:2019 en pr  
Metode umjeravanja pretvarača vibracija i udara – 1. dio: Osnovni pojmovi (ISO 16063-1:1998/Amd 1:2016)  
Methods for the calibration of vibration and shock transducers – Part 1: Basic concepts (ISO 16063-1:1998/Amd 1:2016)

### HZN/TO 120, *Koža i obuća*

HRN EN ISO 5398-4:2019 en pr  
Koža – Kemijsko određivanje sadržaja kromovih oksida – 4. dio: Metoda s induktivno spregnutom plazmom (ICP) (ISO 5398-4:2018; EN ISO 5398-4:2019)  
Leather – Chemical determination of chromic oxide content – Part 4: Quantification by inductively coupled plasma (ICP) (ISO 5398-4:2018; EN ISO 5398-4:2019)

HRN EN ISO 17226-1:2019 en pr  
Koža – Kemijsko određivanje sadržaja formaldehida – 1. dio: Metoda tekućinske kromatografije visokog učinka (HPLC) (ISO 17226-1:2018; EN ISO 17226-1:2019)  
Leather – Chemical determination of formaldehyde content – Part 1: Method using high performance liquid chromatography (ISO 17226-1:2018; EN ISO 17226-1:2019)

HRN EN ISO 17226-2:2019 en pr  
Koža – Kemijsko određivanje sadržaja formaldehida – 2. dio: Metoda kolorimetrijske analize (ISO 17226-2:2018; EN ISO 17226-2:2019)  
Leather – Chemical determination of formaldehyde content – Part 2: Method using colorimetric analysis (ISO 17226-2:2018; EN ISO 17226-2:2019)

### HZN/TO 121, *Anestetička i respiracijska oprema*

HRN EN ISO 7396-1:2016/A1:2019 en pr  
Cjevovodni sustavi za medicinske plinove – 1. dio: Cjevovodni sustavi za komprimirane medicinske plinove i vakuum (ISO 7396-1:2016/Amd 1:2017; EN ISO 7396-1:2016/A1:2019)  
Medical gas pipeline systems – Part 1: Pipeline systems for compressed medical gases and vacuum (ISO 7396-1:2016/Amd 1:2017; EN ISO 7396-1:2016/A1:2019)

HRN EN ISO 10079-1:2015/A1:2019 en pr  
Medicinska usisna oprema – 1. dio: Električno pogonjena usisna oprema – Amandman 1: Promjene zahtjeva za rad pri krajnjim vrijednostima temperature (ISO 10079-1:2015/Amd 1:2018; EN ISO 10079-1:2015/A1:2019)  
Medical suction equipment – Part 1: Electrically powered suction equipment – Amendment 1: Changes to requirements for operating at extremes of temperature (ISO 10079-1:2015/Amd 1:2018; EN ISO 10079-1:2015/A1:2019)

HRN EN ISO 10524-1:2019 en pr  
Regulatori tlaka za uporabu s medicinskim plinovima – 1. dio: Regulatori tlaka i regulatori tlaka s uređajima za mjerenje protoka (ISO 10524-1:2018; EN ISO 10524-1:2019)  
Pressure regulators for use with medical gases – Part 1: Pressure regulators and pressure regulators with flow-metering devices (ISO 10524-1:2018; EN ISO 10524-1:2019)

HRN EN ISO 10524-2:2019 en pr  
Regulatori tlaka za uporabu s medicinskim plinovima – 2. dio: Regulatori tlaka baterija boca i tlaka središnjeg sustava opskrbe (ISO 10524-2:2018; EN ISO 10524-2:2019)  
Pressure regulators for use with medical gases – Part 2: Manifold and line pressure regulators (ISO 10524-2:2018; EN ISO 10524-2:2019)

HRN EN ISO 10524-3:2019 en pr  
Regulatori tlaka za uporabu s medicinskim plinovima – 3. dio: Regulatori tlaka integrirani s ventilima na boci (ISO 10524-3:2019; EN ISO 10524-3:2019)  
Pressure regulators for use with medical gases – Part 3: Pressure regulators integrated with cylinder valves (VIPRs) (ISO 10524-3:2019; EN ISO 10524-3:2019)

HRN EN ISO 80601-2-61:2019 en pr  
Medicinska električna oprema – Dio 2-61: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke puls oximetra (ISO 80601-2-61:2017, ispravljena verzija 2018-02; EN ISO 80601-2-61:2019)  
Medical electrical equipment – Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment (ISO 80601-2-61:2017, Corrected version 2018-02; EN ISO 80601-2-61:2019)

### **HZN/TO 135, Nerazorna ispitivanja**

HRI CEN/TR 16638:2019 en pr  
Nerazorno ispitivanje – Ispitivanje penetrantima i magnetnim česticama upotrebom plavog svjetla (CEN/TR 16638:2014)  
Non-destructive testing – Penetrant and magnetic particle testing using blue light (CEN/TR 16638:2014)

HRI CEN/TR 17108:2019 en pr  
Nerazorno ispitivanje – Osvjetljenje pri ispitivanju penetrantima i magnetnim česticama, dobra praksa (CEN/TR 17108:2017)  
Non-destructive testing – Lighting in penetrant and magnetic particle testing, good practice (CEN/TR 17108:2017)

### **HZN/TO 138, Plastične cijevi, spojnice i ventili za prijenos tekućina**

HRN EN ISO 11296-7:2019 en pr  
Plastični cijevni sustavi za obnavljanje podzemnih netlačnih mreža za odvodnju i kanalizaciju – 7. dio: Oblaganje spiralno namotanim cijevima (ISO 11296-7:2019; EN ISO 11296-7:2019)  
Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks – Part 7: Lining with spirally-wound pipes (ISO 11296-7:2019; EN ISO 11296-7:2019)

### **HZN/TO 196, Prirodni kamen**

HRN EN 16140:2019 en pr  
Metode ispitivanja prirodnog kamena – Određivanje osjetljivosti na promjene izgleda izazvane toplinskim ciklusima (EN 16140:2019)  
Natural stone test methods – Determination of sensitivity to changes in appearance produced by thermal cycles (EN 16140:2019)

### **HZN/TO 207, Upravljanje okolišem**

HRN EN ISO 14064-1:2019 en pr  
Staklenički plinovi – 1. dio: Specifikacija sa smjericama na razini organizacije za kvantificiranje i izvješćivanje o emisijama i uklanjanju stakleničkih plinova (ISO 14064-1:2018; EN ISO 14064-1:2019)  
Greenhouse gases – Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals (ISO 14064-1:2018; EN ISO 14064-1:2019)

### **HZN/TO 211, Geoinformacije/Geomatika**

HRN EN ISO 19115-2:2019 en pr  
Geoinformacije – Metapodaci – 2. dio: Proširenja za prikupljanje i obradu (ISO 19115-2:2019; EN ISO 19115-2:2019)  
Geographic information – Metadata – Part 2: Extensions for acquisition and processing (ISO 19115-2:2019; EN ISO 19115-2:2019)

### **HZN/TO 217, Kozmetika**

HRN EN ISO 11930:2019 en pr  
Kozmetika – Mikrobiologija – Procjena antimikrobne zaštite kozmetičkog proizvoda (ISO 11930:2019; EN ISO 11930:2019)  
Cosmetics – Microbiology – Evaluation of the antimicrobial protection of a cosmetic product (ISO 11930:2019; EN ISO 11930:2019)

### **HZN/TO 503, Metalni materijali**

HRN EN ISO 683-3:2019 en pr  
Toplinski obradivi čelici, legirani čelici i čelici za obradu na automatima – 3. dio: Čelici za cementiranje (ISO 683-3:2019; EN ISO 683-3:2019)  
Heat-treatable steels, alloy steels and free-cutting steels – Part 3: Case-hardening steels (ISO 683-3:2019; EN ISO 683-3:2019)

HRI CEN/TR 10354:2019 en pr  
Kemijska analiza materijala na bazi željeza – Analiza željeza-silicija – Određivanje Si i Al rendgenskom fluorescentnom spektrometrijom (CEN/TR 10354:2011)  
Chemical analysis of ferrous materials – Analysis of ferro-silicon – Determination of Si and Al by X-ray fluorescence spectrometry (CEN/TR 10354:2011)

HRI CEN/TR 10362:2019 en pr  
Kemijska analiza materijala na bazi željeza – Određivanje selenija u čelicima – Metoda elektrotermičke atomske apsorpcijske spektrometrije (CEN/TR 10362:2014)  
Chemical analysis of ferrous materials – Determination of selenium in steels – Electrothermal atomic absorption spectrometric method (CEN/TR 10362:2014)

HRI CEN/TR 10364:2019 en pr  
Čelici i željezni lijevovi – Određivanje tvari navedenih u Direktivama 2011/65/EU (RoHS) i 2000/53/EZ (ELV) – Ograničenja (CEN/TR 10364:2018)  
Steels and cast irons – Determination of substances listed in the directives 2011/65/EU (RoHS) and 2000/53/EC (ELV) – Limitations (CEN/TR 10364:2018)

HRI CEN/TR 16748:2019 en pr  
Aluminij i aluminijeve legure – Mehanički potencijal Al-Si legura za visokotlačne, niskotlačne i kokilne odljevke (CEN/TR 16748:2014)  
Aluminium and aluminium alloys – Mechanical potential of Al-Si alloys for high pressure, low pressure and gravity die casting (CEN/TR 16748:2014)

HRI CEN/TR 16749:2019 en pr  
Aluminij i aluminijeve legure – Razredba grešaka i nedostataka u proizvodima visokotlačnih, niskotlačnih i kokilnih odljevaka (CEN/TR 16749:2014)  
Aluminium and aluminium alloys – Classification of Defects and Imperfections in High Pressure, Low Pressure and Gravity Die Cast Products (CEN/TR 16749:2014)

### **HZN/TO 504, Korozija i zaštita metala i legura**

HRN ISO 4524-2:2019 en pr  
Metalne prevlake – Metode ispitivanja elektronanesenih prevlaka zlata i zlatnih legura – 2. dio: Ispitivanje utjecaja okoliša pomoću smjese protočnog plina (MFG) (ISO 4524-2:2000)  
Metallic coatings – Test methods for electrodeposited gold and gold alloy coatings – Part 2: Mixed flowing gas (MFG) environmental tests (ISO 4524-2:2000)

HRN EN ISO 10111:2019 en pr  
Metalne i druge anorganske prevlake – Mjerenje mase po jediničnoj površini – Pregled metoda gravimetrijskih i kemijskih analiza (ISO 10111:2019; EN ISO 10111:2019)  
Metallic and other inorganic coatings – Measurement of mass per unit area – Review of gravimetric and chemical analysis methods (ISO 10111:2019; EN ISO 10111:2019)

### **HZN/TO 506, Materijali, oprema i konstrukcije za naftnu industriju, prirodni plin i geotermalnu vodu**

HRN EN ISO 6145-7:2019 en pr  
Analiza plina – Priprema kalibracijskih plinskih smjesa primjenom dinamičkih metoda – 7. dio: Termički regulatori masenog protoka (ISO 6145-7:2018; EN ISO 6145-7:2018)  
Gas analysis – Preparation of calibration gas mixtures using dynamic methods – Part 7: Thermal mass-flow controllers (ISO 6145-7:2018; EN ISO 6145-7:2018)

### **HZN/TO 508, Ambalaža i pakiranje**

HRN EN 17177:2019 en pr  
Staklena ambalaža – Krunski čep – Krunski čep promjera 26 mm, visine 6 mm (EN 17177:2019)  
Glass packaging – Crown cap – Crown cap diameter, 6 mm height crown cap (EN 17177:2019)

## **HZN/TO 518, Podovi, stropovi i zidne obloge**

HRN EN 13454-2:2019 en pr  
Veziva za estrihe na osnovi kalcijevog sulfata – 2. dio: Metode ispitivanja (EN 13454-2:2019)  
Binders for floor screeds based on calcium sulphate – Part 2: Test methods (EN 13454-2:2019)

## **HZN/TO 521, Usluge održavanja**

HRN ISO 55002:2019 en pr  
Upravljanje imovinom – Sustavi upravljanja – Smjernice za primjenu norme ISO 55001 (ISO 55002:2018)  
Asset management – Management systems – Guidelines for the application of ISO 55001 (ISO 55002:2018)

## **HZN/TO 526, Bitumenska veziva**

HRN EN 13074-1:2019 en pr  
Bitumen i bitumenska veziva – Izdvajanje veziva iz bitumenske emulzije ili razrijeđenoga ili omekšanoga bitumenskoga veziva – 1. dio: Izdvajanje isparavanjem (EN 13074-1:2019)  
Bitumen and bituminous binders – Recovery of binder from bituminous emulsion or cut-back or fluxed bituminous binders – Part 1: Recovery by evaporation (EN 13074-1:2019)

HRN EN 13074-2:2019 en pr  
Bitumen i bitumenska veziva – Izdvajanje veziva iz bitumenske emulzije ili razrijeđenoga ili omekšanoga bitumenskoga veziva – 2. dio: Stabilizacija nakon izdvajanja isparavanjem (EN 13074-2:2019)  
Bitumen and bituminous binders – Recovery of binder from bituminous emulsion or cut-back or fluxed bituminous binders – Part 2: Stabilisation after recovery by evaporation (EN 13074-2:2019)

## **HZN/TO 528, Oprema za željeznice**

HRN EN 13146-1:2019 en pr  
Željeznički sustav – Željeznički gornji ustroj – Metode ispitivanja za kolosiječni pričvrtni pribor – 1. dio: Određivanje otpora uzdužnomu pomicanju tračnice (EN 13146-1:2019)  
Railway applications – Track – Test methods for fastening systems – Part 1: Determination of longitudinal rail restraint (EN 13146-1:2019)

HRN EN 13146-7:2019 en pr  
Željeznički sustav – Željeznički gornji ustroj – Metode ispitivanja za kolosiječni pričvrtni pribor – 7. dio: Određivanje pričvrstne sile i otpornosti prema izdizanju (EN 13146-7:2019)  
Railway applications – Track – Test methods for fastening systems – Part 7: Determination of clamping force and uplift stiffness (EN 13146-7:2019)

HRN EN 14033-4:2019 en pr  
Željeznički sustav – Željeznički gornji ustroj – Kolosiječni strojevi za gradnju i održavanje – 4. dio: Tehnički zahtjevi za vožnju, kretanje i rad na tračničkim sustavima javnoga gradskog prometa (EN 14033-4:2019)  
Railway applications – Track – Railbound construction and maintenance machines – Part 4: Technical requirements for running, travelling and working on urban rail (EN 14033-4:2019)

## **HZN/TO 531, Plastika i guma**

HRN EN ISO 294-4:2019 en pr  
Plastika – Injekcijsko prešani ispitič plastomernih materijala – 4. dio: Određivanje skupljanja pri prešanju (ISO 294-4:2018; EN ISO 294-4:2019)  
Plastics – Injection moulding of test specimens of thermoplastic materials – Part 4: Determination of moulding shrinkage (ISO 294-4:2018; EN ISO 294-4:2019)

HRN EN ISO 2818:2019 en pr  
Plastika – Priprema ispitaka mehaničkim odvajanjem (ISO 2818:2018; EN ISO 2818:2019)  
Plastics – Preparation of test specimens by machining (ISO 2818:2018; EN ISO 2818:2019)

## **HZN/TO 541, Sustavi grijanja, ventilacije i klimatizacije u građevinama**

HRN EN 13141-1:2019 en pr  
Ventilacija u zgradama – Ispitivanje dijelova/proizvoda za stambenu ventilaciju – 1. dio: Uređaji za prijenos zraka montirani izvana i iznutra (EN 13141-1:2019)  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 1: Externally and internally mounted air transfer devices (EN 13141-1:2019)

## **HZN/TO 550, Opskrba vodom**

HRN EN 12873-3:2019 en pr  
Utjecaj materijala na vodu namijenjenu ljudskoj potrošnji – Utjecaj zbog migracije – 3. dio: Metoda ispitivanja za ionske izmjenjivače i adsorpcijske smole (EN 12873-3:2019)  
Influence of materials on water intended for human consumption – Influence due to migration – Part 3: Test method for ion exchange and adsorbent resins (EN 12873-3:2019)

## **HZN/TO 555, Medicinski proizvodi**

HRN EN ISO 15195:2019 en pr  
Laboratorijska medicina – Zahtjevi za osposobljenost umjernih laboratorija u kojima se upotrebljavaju referentni mjerni postupci (ISO 15195:2018; EN ISO 15195:2019)  
Laboratory medicine – Requirements for the competence of calibration laboratories using reference measurement procedures (ISO 15195:2018; EN ISO 15195:2019)

HRN EN ISO 20166-3:2019 en pr  
Molekularna in vitro dijagnostička ispitivanja – Specifikacije za postupke prije ispitivanja za tkivo fiksirano formalinom i uronjeno u parafin (FFPE) – 3. dio: Izolirana DNK (ISO 20166-3:2018; EN ISO 20166-3:2019)  
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for formalin-fixed and paraffin-embedded (FFPE) tissue – Part 3: Isolated DNA (ISO 20166-3:2018; EN ISO 20166-3:2019)

## **HZN/TO 560, Tekstilni proizvodi**

HRN EN ISO 18254-2:2019 en pr  
Tekstil – Metoda detekcije i određivanja alkilfenol etoksilata (APEO) – 2. dio: Metoda s primjenom NPLC-a (ISO 18254-2:2018; EN ISO 18254-2:2019)  
Textiles – Method for the detection and determination of alkylphenol ethoxylates (APEO) – Part 2: Method using NPLC (ISO 18254-2:2018; EN ISO 18254-2:2019)

## **HZN/TO 568, Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranom**

HRN EN ISO 6888-1:2004/A2:2019 en pr  
Mikrobiologija hrane i stočne hrane – Horizontalna metoda određivanja broja koagulaza-pozitivnih stafilocoka (Staphylococcus aureus i druge vrste) – 1. dio: Postupak primjene Baird-Parkerove hranjive podloge na agaru – Amandman 2: Uključivanje alternativnog postupka za potvrđivanje (ISO 6888-1:1999/Amd 2:2018; EN ISO 6888-1:1999/A2:2018)  
Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) – Part 1: Technique using Baird-Parker agar medium – Amendment 2: Inclusion of an alternative confirmation procedure (ISO 6888-1:1999/Amd 2:2018; EN ISO 6888-1:1999/A2:2018)

HRN EN ISO 18593:2019 en pr  
Mikrobiologija u lancu hrane – Horizontalne metode za postupke uzorkovanja s površine (ISO 18593:2018; EN ISO 18593:2018)  
Microbiology of the food chain – Horizontal methods for surface sampling (ISO 18593:2018; EN ISO 18593:2018)

## **HZN/TO E8, Sustavski vidovi opskrbe električnom energijom**

HRN EN 50549-1:2019 en pr  
Zahtjevi za priključak elektrane na distribucijsku mrežu – 1. dio: Priključak na niskonaponsku distribucijsku mrežu – Elektrane do uključivo tipa B (EN 50549-1:2019)  
Requirements for generating plants to be connected in parallel with distribution networks – Part 1: Connection to a LV distribution network – Generating plants up to and including Type B (EN 50549-1:2019)

HRN EN 50549-2:2019 en pr  
Zahtjevi za priključak elektrane na distribucijsku mrežu – 2. dio: Priključak na srednjonaponsku distribucijsku mrežu – Elektrane do uključivo tipa B (EN 50549-2:2019)  
Requirements for generating plants to be connected in parallel with distribution networks – Part 2: Connection to a MV distribution network – Generating plants up to and including Type B (EN 50549-2:2019)

## **HZN/TO E23, Električni instalacijski pribor**

HRN EN 60898-1:2019 en pr  
Električni pribor – Instalacijski prekidači za nadstrujnu zaštitu za kućanstvo i slične instalacije – 1. dio: Instalacijski prekidači za rad s izmjeničnom strujom (IEC 60898-1:2015, MOD; EN 60898-1:2019)  
Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation (IEC 60898-1:2015, MOD; EN 60898-1:2019)

HRN EN IEC 61058-2-6:2019 en pr  
Sklopke za aparate – Dio 2-6: Posebni zahtjevi za sklopke u elektromotornim ručnim alatima, prijenosnim alatima i mehanizaciji za vrtove i travnjake (IEC 61058-2-6:2018; EN IEC 61058-2-6:2019)  
Switches for appliances – Part 2-6: Particular requirements for switches used in electric motor-operated hand-held tools, transportable tools and lawn and garden machinery (IEC 61058-2-6:2018; EN IEC 61058-2-6:2019)

## **HZN/TO E34, Žarulje, svjetiljke i pripadna oprema**

HRN EN 60188:2008/A11:2019 en pr  
Visokotlačne živine žarulje – Izvedbeni zahtjevi (EN 60188:2001/A11:2019)  
High-pressure mercury vapour lamps – Performance specifications (EN 60188:2001/A11:2019)

## **HZN/TO E44, Elektrotehnička sigurnost strojeva**

HRN EN IEC 60204-11:2019 en pr  
Sigurnost strojeva – Električna oprema strojeva – 11. dio: Zahtjevi za opremu za izmjenične napone iznad 1000 V ili istosmjernje napone iznad 1500 V koji ne prelaze 36 kV (IEC 60204-11:2018; EN IEC 60204-11:2019)  
Safety of machinery – Electrical equipment of machines – Part 11: Requirements for equipment for voltages above 1 000 V AC or 1 500 V DC and not exceeding 36 kV (IEC 60204-11:2018; EN IEC 60204-11:2019)

## **HZN/TO E45, Nuklearna instrumentacija**

HRI IEC/TR 61838:2019 en pr  
Nuklearne elektrane – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Uporaba probablističkih procjena sigurnosti radi klasifikacije funkcija (IEC/TR 61838:2009)  
Nuclear power plants – Instrumentation and control important to safety – Use of probabilistic safety assessment for the classification of functions (IEC/TR 61838:2009)

HRI IEC/TR 62096:2019 en pr  
Nuklearne elektrane – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Smjernice za donošenje odluke o modernizaciji (IEC/TR 62096:2009)  
Nuclear power plants – Instrumentation and control important to safety – Guidance for the decision on modernization (IEC/TR 62096:2009)

## **HZN/TO E57, Upravljanje energetske sustavom i pridružene komunikacije**

HRN EN 61970-453:2014/A1:2019 en pr  
Sučelje za aplikacije vođenja elektroenergetskog sustava (EMS-API) – 453. dio: Profili za pregled shema (IEC 61970-453:2014/am1:2018; EN 61970-453:2014/A1:2019)  
Energy management system application program interface (EMS-API) – Part 453: Diagram layout profile (IEC 61970-453:2014/am1:2018; EN 61970-453:2014/A1:2019)

## **HZN/TO E61, Sigurnost električnih kućanskih i sličnih aparata**

HRN EN 60335-2-24:2011/A1:2019 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-24: Posebni zahtjevi za hladnjake, ledenice, sladoledarice i ledarice (IEC 60335-2-24:2010/am1:2012, MOD; EN 60335-2-24:2010/A1:2019)  
Household and similar electrical appliances – Safety – Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers (IEC 60335-2-24:2010/am1:2012, MOD; EN 60335-2-24:2010/A1:2019)

HRN EN 60335-2-24:2011/A2:2019 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-24: Posebni zahtjevi za hladnjake, ledenice, sladoledarice i ledarice (IEC 60335-2-24:2010/am2:2017; EN 60335-2-24:2010/A2:2019)  
Household and similar electrical appliances – Safety – Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers (IEC 60335-2-24:2010/am2:2017; EN 60335-2-24:2010/A2:2019)

## **HZN/TO E62, Električna oprema u medicinskoj praksi**

HRN EN 60601-2-40:2019 en pr  
Medicinska električna oprema – Dio 2-40: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke elektromiografa i uređaja za evocirane potencijale (IEC 60601-2-40:2016; EN 60601-2-40:2019)  
Medical electrical equipment – Part 2-40: Particular requirements for the basic safety and essential performance of electromyographs and evoked response equipment (IEC 60601-2-40:2016; EN 60601-2-40:2019)

## **HZN/TO E69, Cestovna i industrijska električna vozila**

HRN EN IEC 62840-2:2019 en pr  
Sustav za izmjenu baterija električnih vozila – 2. dio: Sigurnosni zahtjevi (IEC 62840-2:2016; EN IEC 62840-2:2019)  
Electric vehicle battery swap system – Part 2: Safety requirements (IEC 62840-2:2016; EN IEC 62840-2:2019)

## **HZN/TO T4, Normizacija u telekomunikacijama**

HRN EN 303 098 V2.2.1:2019 en pr  
Pomorski osobni uređaji male snage za određivanje položaja koji primjenjuju AIS – Harmonizirana norma za pristup radijskom spektru (EN 303 098 V2.2.1:2019)  
Maritime low power personal locating devices employing AIS – Harmonised Standard for access to radio spectrum (EN 303 098 V2.2.1:2019)

HRN EN 303 471 V1.1.1:2019 en pr  
Ekoinženjering (EE) – Metodologija mjerenja energetske učinkovitosti i metrika za virtualizaciju mrežne funkcije (NFV) (EN 303 471 V1.1.1:2019)  
Environmental Engineering (EE) – Energy Efficiency measurement methodology and metrics for Network Function Virtualisation (NFV) (EN 303 471 V1.1.1:2019)

HRN EN 319 521 V1.1.1:2019 en pr  
Elektronički potpisi i infrastrukture (ESI) – Opći i sigurnosni zahtjevi za davatelje usluga isporuke elektronički registriranih poruka (EN 319 521 V1.1.1:2019)  
Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Electronic Registered Delivery Service Providers (EN 319 521 V1.1.1:2019)

HRN EN 319 522-4-1 V1.2.1:2019 en pr  
Elektronički potpisi i infrastrukture (ESI) – Usluge isporuke elektronički registriranih poruka – 4. dio: Povezivanja – 1. poddio: Povezivanja isporučene poruke (EN 319 522-4-1 V1.2.1:2019)  
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 4: Bindings – Sub-part 1: Message delivery bindings (EN 319 522-4-1 V1.2.1:2019)

HRN EN 319 531 V1.1.1:2019 en pr  
Elektronički potpisi i infrastrukture (ESI) – Opći i sigurnosni zahtjevi za davatelje usluga registrirane elektroničke pošte (EN 319 531 V1.1.1:2019)  
Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Registered Electronic Mail Service Providers (EN 319 531 V1.1.1:2019)

## **HZN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1**

HRN EN ISO 9994:2019 en pr  
Upaljači – Sigurnosne specifikacije (ISO 9994:2018; EN ISO 9994:2019)  
Lighters – Safety specification (ISO 9994:2018; EN ISO 9994:2019)

## **HZN/TU B1, Graditeljstvo 1**

HRN EN 17087:2019 en pr  
Građevni proizvodi – Procjena otpuštanja opasnih tvari – Priprema ispitnih dijelova laboratorijskog uzorka za ispitivanje otpuštanja i analizu sadržaja (EN 17087:2019)  
Construction products – Assessment of release of dangerous substances – Preparation of test portions from the laboratory sample for testing of release and analysis of content (EN 17087:2019)

## HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1

HRN EN ISO 23907-1:2019 en pr  
Zaštita od ozljeda oštrim predmetima – Zahtjevi i metode ispitivanja – 1. dio: Jednokratni spremnici za odlaganje oštrih predmeta (ISO 23907-1:2019; EN ISO 23907-1:2019)  
Sharps injury protection – Requirements and test methods – Part 1: Single-use sharps containers (ISO 23907-1:2019; EN ISO 23907-1:2019)

## HZN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1

HRN EN 16601-00:2019 en pr  
Svemirski sustavi – Niz norma EN 16600 – Opisi, provedba i opći zahtjevi (EN 16601-00:2019)  
Space system – EN 16600 series – Description, implementation and general requirements (EN 16601-00:2019)

HRN EN 16842-9:2019 en pr  
Industrijska vozila na motorni pogon – Vidljivost – Metode ispitivanja i verifikacija – 9. dio: Viličari za izuzimanje robe, tropoložajni, s podiznim mjestom za rukovatelja (EN 16842-9:2019)  
Powered industrial trucks – Visibility – Test methods and verification – Part 9: Order-picking, lateral- and front-stacking trucks with elevating operator position (EN 16842-9:2019)

## HZN/TU U1, Opća elektrotehnika 1

HRN EN 50436-4:2019 en pr  
Blokada u slučaju alkoholiziranosti – Metode ispitivanja i izvedbeni zahtjevi – 4. dio: Povezivanje i digitalno sučelje između blokade u slučaju alkoholiziranosti i vozila (EN 50436-4:2019)  
Alcohol interlocks – Test methods and performance requirements – Part 4: Connection and digital interface between the alcohol interlock and the vehicle (EN 50436-4:2019)

HRN EN IEC 62474:2019 en pr  
Deklaracija materijala za proizvode za elektrotehničku industriju (IEC 62474:2018; EN IEC 62474:2019)  
Material declaration for products of and for the electrotechnical industry (IEC 62474:2018; EN IEC 62474:2019)

## HZN/TU W1, Energetska elektrotehnika 1

HRN EN IEC 60665:2019 en pr  
Izmjenični ventilatori za ventilaciju i regulatori za kućanske i slične svrhe – Metode za mjerenje radnih značajka (IEC 60665:2018; EN IEC 60665:2019)  
A.C. ventilating fans and regulators for household and similar purposes – Methods for measuring performance (IEC 60665:2018; EN IEC 60665:2019)

## 1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku

Temeljem Zakona o normizaciji (Narodne novine 80/2013) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o prijedlogu za prihvaćanje stranih norma (međunarodnih, europskih i njemačkih norma) kao hrvatskih norma.

Pisane primjedbe na prijedloge za prihvaćanje norma dostavljaju se Hrvatskome zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo).

## HZN/TO 8, Brodogradnja

prEN ISO 13297 en  
Small craft – Electrical systems – Alternating and direct current installations (ISO/DIS 13297:2018)

prEN ISO 15083 en  
Small craft – Bilge-pumping systems (ISO/DIS 15083:2019)  
Mala plovila – Sustavi za pražnjenje kaljuže (ISO/DIS 15083:2019)

## HZN/TO 21, Protupožarna i vatrogasna oprema

EN 12845:2015/prA1:2019 en  
Fixed firefighting systems – Automatic sprinkler systems – Design, installation and maintenance  
Stabilni protupožarni sustavi – Sustavi automatskih sprinklera – Projektiranje, ugradnja i održavanje

## HZN/TO 23, Traktori i strojevi za poljoprivredu i šumarstvo

ISO 5721-1:2013 en  
Agricultural tractors – Requirements, test procedures and acceptance criteria for the operator's field of vision – Part 1: Field of vision to the front  
Poljoprivredni traktori – Zahtjevi, procedure ispitivanja i kriteriji prihvatljivosti za vidno polje rukovatelja – 1. dio: Vidno polje prema naprijed

ISO 5721-2:2014 en  
Agricultural tractors – Requirements, test procedures and acceptance criteria for the operator's field of vision – Part 2: Field of vision to the side and to the rear  
Poljoprivredni traktori – Zahtjevi, procedure ispitivanja i kriteriji prihvatljivosti za vidno polje rukovatelja – 2. dio: Vidno polje sa strane i straga

## HZN/TO 44, Zavarivanje i srodni postupci

prEN ISO 3821 en  
Gas welding equipment – Rubber hoses for welding, cutting and allied processes (ISO/DIS 3821:2019)  
Oprema za plinsko zavarivanje – Gumena crijeva za zavarivanje, rezanje i srodne postupke (ISO/DIS 3821:2019)

prEN ISO 21904-1 en  
Health and safety in welding and allied processes – Equipment for capture and separation of welding fume – Part 1: General requirements (ISO/DIS 21904-1:2019)  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Oprema za odsisavanje i odvajanje dima pri zavarivanju – 1. dio: Opći zahtjevi (ISO/DIS 21904-1:2019)

prEN ISO 21904-2 en  
Health and safety in welding and allied processes – Equipment for capture and separation of welding fume – Part 2: Requirements for testing and marking of separation efficiency (ISO/DIS 21904-2:2019)  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Oprema za odsisavanje i odvajanje dima pri zavarivanju – 2. dio: Zahtjevi za ispitivanje i označivanje učinkovitosti odvajanja (ISO/DIS 21904-2:2019)

prEN ISO 21904-4 en  
Health and safety in welding and allied processes – Equipment for capture and separation of welding fume – Part 4: Determination of the minimum air volume flow rate of capture devices (ISO/DIS 21904-4:2019)  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Oprema za odsisavanje i odvajanje dima pri zavarivanju – 4. dio: Određivanje minimalnog protoka zraka odsisnih uređaja (ISO/DIS 21904-4:2019)

## HZN/TO 120, Koža i obuća

prEN ISO 3376 en  
Leather – Physical and mechanical tests – Determination of tensile strength and percentage extension (ISO/DIS 3376:2019)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje prekidne čvrstoće i postotka istezanja (ISO/DIS 3376:2019)

## HZN/TO 121, Anestetička i respiracijska oprema

prEN 1789 en  
Medical vehicles and their equipment – Road ambulances  
Medicinski automobili i njihova oprema – Cestovni medicinski automobili

## HZN/TO 136, Namještaj

EN 14988:2017/prA1:2019 en  
Children's high chairs – Requirements and test methods  
Dječje visoke stolice – Zahtjevi i metode ispitivanja

## **HZN/TO 138, *Plastične cijevi, spojnice i ventili za prijenos tekućina***

FprCEN ISO/TS 21003-7 en  
Multilayer piping systems for hot and cold water installations inside buildings – Part 7: Guidance for the assessment of conformity (ISO/DTS 21003-7:2018)  
Višeslojni cijevni sustavi za instalacije s toplom i hladnom vodom u zgradama – 7. dio: Upute za ocjenu sukladnosti (ISO/DTS 21003-7:2018)

## **HZN/TO 146, *Kvaliteta zraka***

prEN 17289-1 en  
Characterization of bulk materials – Determination of a sizeweighted fine fraction and crystalline silica content – Part 1: General information and choice of test methods

prEN 17289-2 en  
Characterization of bulk materials – Determination of a sizeweighted fine fraction and crystalline silica content – Part 2: Calculation method

prEN 17289-3 en  
Characterization of bulk materials – Determination of a sizeweighted fine fraction and crystalline silica content – Part 3: Sedimentation method

prEN 17346 en  
Ambient Air Quality – Standard method for the determination of the concentration of ammonia by diffusive sampling

prEN 17359 en  
Stationary source emissions – Bioaerosols and biological agents – Sampling of bioaerosols and collection in liquids – Impingement method

## **HZN/TO 147, *Kvaliteta vode***

prEN ISO 9697 en  
Water quality – Gross beta activity – Test method using thick source (ISO 9697:2018)  
Kvaliteta vode – Ukupna beta aktivnost – Metoda ispitivanja upotrebom debelog izvora (ISO 9697:2018)

prEN ISO 13161 en  
Water quality – Polonium 210 – Test method using alpha spectrometry (ISO/DIS 13161:2019)  
Kvaliteta vode – Polonij-210 – Metoda ispitivanja upotrebom alfa-spektrometrije (ISO/DIS 13161:2019)

## **HZN/TO 159, *Ergonomija***

prEN ISO 24550 en  
Ergonomics – Accessible design – Indicator lights on consumer products (ISO/DIS 24550:2019)

prEN ISO 24551 en  
Ergonomics – Accessible design – Spoken instructions of consumer products (ISO/DIS 24551:2019)

## **HZN/TO 181, *Sigurnost igraćaka i proizvodi za djecu***

prEN 1930 en  
Child use and care articles – Safety barriers – Safety requirements and test methods  
Proizvodi za dojenčad i malu djecu – Sigurnosne ograde – Sigurnosni zahtjevi i metode ispitivanja

## **HZN/TO 211, *Geoinformacije/Geomatika***

prEN ISO 19116 en  
Geographic information – Positioning services (ISO/DIS 19116:2019)  
Geoinformacije – Usluge pozicioniranja (ISO/DIS 19116:2019)

## **HZN/TO 238, *Čvrsta biogoriva***

prEN ISO 20024 en  
Solid biofuels – Safe handling and storage of solid biofuel pellets in commercial and industrial applications (ISO/DIS 20024:2019)

## **HZN/TO 503, *Metalni materijali***

prEN ISO 2106 en  
Anodizing of aluminium and its alloys – Determination of mass per unit area (surface density) of anodic oxidation coatings – Gravimetric method (ISO/DIS 2106:2019)  
Anodizacija aluminija i aluminijevih legura – Određivanje mase po jedinici površine (površinska gustoća) prevlaka dobivenih anodnom oksidacijom – Gravimetrijska metoda (ISO/DIS 2106:2019)

EN 12449:2016/prA1 en  
Copper and copper alloys – Seamless, round tubes for general purposes  
Bakar i legure bakra – Bešavne okrugle cijevi za opću namjenu

## **HZN/TO 504, *Korozija i zaštita metala i legura***

prEN ISO 8044 en  
Corrosion of metals and alloys – Basic terms and definitions (ISO/DIS 8044:2019)  
Korozija metala i legura – Osnovni nazivi i definicije (ISO/DIS 8044:2019)

## **HZN/TO 505, *Prijenos i distribucija plina***

prEN ISO 20088-2 en  
Determination of the resistance to cryogenic spill of insulation materials – Part 2: Vapour release (ISO/DIS 20088-2:2019)  
Određivanje otpornosti izolacijskih materijala na propuštanje kriogenih izlivanja – 2. dio: Otpuštanje pare (ISO/DIS 20088-2:2019)

## **HZN/TO 509, *Cestovna oprema***

prEN 12368 en  
Traffic control equipment – Signal heads  
Oprema za regulaciju prometa – Prometna svjetla

## **HZN/TO 528, *Oprema za željeznice***

prEN 15085-2 en  
Railway applications – Welding of railway vehicles and components – Part 2: Requirements for welding manufacturers

prEN 15328 en  
Railway applications – Braking – Brake pads

prEN 15624 en  
Railway applications – Braking – Empty-loaded changeover devices  
Željeznički sustav – Kočenje – Mjenjač prazno-tovareno

prEN 15625 en  
Railway applications – Braking – Automatic variable load sensing devices  
Željeznički sustav – Kočenje – Uređaj za automatsko praćenje izmjena opterećenja

FprEN 15746-1 en  
Railway applications – Track – Road rail machines and associated equipment – Part 1: Technical requirements for travelling and working  
Željeznički sustav – Željeznički gomji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 1. dio: Tehnički zahtjevi za kretanje i rad

FprEN 15746-2 en  
Railway applications – Track – Road-rail machines and associated equipment – Part 2: General safety requirements  
Željeznički sustav – Željeznički gornji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 2. dio: Opći sigurnosni zahtjevi

FprEN 15746-3 en  
Railway applications – Track – Road-rail machines and associated equipment – Part 3: Technical requirements for running  
Željeznički sustav – Željeznički gomji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 3. dio: Tehnički zahtjevi za vožnju



FprEN 15746-4 en  
Railway applications – Track – Road-rail machines and associated equipment – Part 4: Technical requirements for running, travelling and working on urban rail  
Željeznički sustav – Željeznički gornji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 4. dio: Tehnički zahtjevi za vožnju, kretanje i rad na tračničkim sustavima javnoga gradskog prometa

## HZN/TO 531, *Plastika i guma*

prEN 15534-5 en  
Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) – Part 5: Specifications for cladding profiles and tiles  
Kompozitni materijali proizvedeni na osnovi celuloze i plastomera (uobičajeni naziv drvo- polimerni kompoziti (WPC) ili kompoziti na osnovi prirodnih vlakana (NFC)) – 5. dio: Specifikacije obložnih profila i crijeva

prEN ISO 21304-2 en  
Plastics – Ultra-high-molecular-weight polyethylene (PE-UHMW) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO/DIS 21304-2:2019)

prEN ISO 23153-1 en  
Plastics – Polyetheretherketone (PEEK) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO/DIS 23153-1:2019)

prEN ISO 23153-2 en  
Plastics – Polyetheretherketone (PEEK) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO/DIS 23153-2:2019)

## HZN/TO 536, *Vrata, prozori i staklo u graditeljstvu*

prEN 15998 en  
Glass in building – Safety in case of fire, fire resistance – Glass testing methodology for the purpose of classification  
Staklo u graditeljstvu – Sigurnost u slučaju požara, vatrootpornost – Metodologija ispitivanja stakla u svrhu razredbe

prEN 17352 en  
Power operated pedestrian entrance control equipment – Safety in use – Requirements and test methods

## HZN/TO 539, *Kemijski dezinficijensi i antiseptici*

prEN 12353 en  
Chemical disinfectants and antiseptics – Preservation of test organisms used for the determination of bactericidal (including Legionella), mycobactericidal, sporicidal, fungicidal and virucidal (including bacteriophages) activity  
Kemijski dezinficijensi i antiseptici – Čuvanje sojeva mikroorganizama koji se upotrebljavaju u određivanju baktericidne (uključujući legionelu), mikobaktericidne, sporicidne, fungicidne i virucidne (uključujući bakteriofage) djelotvornosti

## HZN/TO 544, *Strojni elementi*

ISO 3547-1:2018 en  
Plain bearings – Wrapped bushes – Part 1: Dimensions  
Klizni ležajevi – Čahure sa zazorom – 1. dio: Mjere

ISO 4379:2018 en  
Plain bearings – Copper alloy bushes  
Klizni ležajevi – Bakrene čahure bez proreza

ISO 4386-3:2018 en  
Plain bearings – Metallic multilayer plain bearings – Part 3: Non-destructive penetrant testing  
Klizni ležajevi – Klizni ležajevi iz višeslojnih metala – 3. dio: Ispitivanje bez razaranja s penetrantima

ISO 6280:2018 en  
Plain bearings – Requirements and guidance on backings for thick-walled multilayer bearings  
Klizni ležajevi – Zahtjevi i smjernice za materijal podloge debelih višeslojnih ležajeva

ISO 6282:2018 en  
Plain bearings – Metallic thin-walled half bearings – Determination of the sigma 0,01\*-limit  
Klizni ležajevi – Metalni tankostijeni poluležajevi – Određivanje granice 0,01

ISO 6525:2018 en  
Plain bearings – Ring type thrust washers made from strip – Dimensions and tolerances  
Klizni ležajevi – Prstenasta odzivna ploča izrađena iz trake – Mjere i tolerancije

ISO 16589-1:2011/Amd 1:2018 en  
Rotary shaft lip-type seals incorporating thermoplastic sealing elements – Part 1: Nominal dimensions and tolerances  
Brtve za vratila s brtvenim rubom s ugrađenim plastomernim brtvenim elementima – 1. dio: Nazivne dimenzije i tolerancije

## HZN/TO 549, *Svjetlo i rasvjeta*

prEN 1837 en  
Safety of machinery – Integral lighting of machines  
Sigurna uporaba strojeva – Rasvjeta strojeva

## HZN/TO 550, *Opskrba vodom*

prEN 14451 en  
Devices to prevent pollution by backflow of potable water – In-line anti-vacuum valves DN 10 to DN 50 inclusive – Family D, type A  
Uređaji za sprečavanje onečišćenja vode za piće zbog povratnoga toka – Linijski protuvakuumski ventili od DN 10 do uključivo DN 50 – Skupina D, tip A

## HZN/TO 551, *Gradnja*

prEN ISO 23386 en  
Building information modelling and other digital processes used in construction – Methodology to describe, author and maintain properties in interconnected dictionaries (ISO/DIS 23386:2019)

## HZN/TO 557, *Zaštitna odjeća*

EN ISO 27065:2017/prA1 en  
Protective clothing – Performance requirements for protective clothing worn by operators applying pesticides and for re-entry workers – Amendment 1: Surrogate test chemical (ISO 27065:2017/DAmD 1:2019)

## HZN/TO 559, *Zaporni, regulacijski i sigurnosni uređaji*

prEN ISO 22109 en  
Industrial valves – Gearbox for valves (ISO/DIS 22109:2019)  
Industrijski zaporni uređaji – Regulator zapornih uređaja (ISO/DIS 22109:2019)

## HZN/TO 560, *Tekstilni proizvodi*

prEN ISO 1833-9 en  
Textiles – Quantitative chemical analysis – Part 9: Mixtures of acetate with certain other fibres (method using benzyl alcohol) (ISO/DIS 1833-9:2019)

prEN ISO 1833-13 en  
Textiles – Quantitative chemical analysis – Part 13: Mixtures of certain chlorofibres with certain other fibres (method using carbon disulfide/acetone) (ISO/DIS 1833-13:2019)  
Tekstil – Kvantitativna kemijska analiza – 13. dio: Mješavine određenih klornih vlakana s drugim određenim vlaknima (metoda s uporabom ugljik-disulfida/acetona) (ISO/DIS 1833-13:2019)

prEN ISO 1833-14 en  
Textiles – Quantitative chemical analysis – Part 14: Mixtures of acetate and certain chlorofibres (method using acetic acid) (ISO/DIS 1833-14:2019)  
Tekstil – Kvantitativna kemijska analiza – 14. dio: Mješavine acetatnih vlakana s određenim klornim vlaknima (metoda s uporabom octene kiseline) (ISO/DIS 1833-14:2019)

prEN ISO 1833-27 en  
Textiles – Quantitative chemical analysis – Part 27: Mixtures of cellulose fibres with certain other fibres (method using aluminium sulfate) (ISO 1833-27:2018)

## **HZN/TO 561, *Kotlovi, posude pod tlakom, cjevovodi i plinske boce***

prEN 15776 en

Unfired pressure vessels – Requirements for the design and fabrication of pressure vessels and pressure vessel parts constructed from cast iron with an elongation after fracture equal or less than 15 %

Neložene posude pod tlakom – Zahtjevi za projektiranje i proizvodnju posuda pod tlakom i dijelova posuda pod tlakom izrađenih od željeznog lijeva s elongacijom (istezljivošću) nakon loma od 15 % ili manjom

## **HZN/TO 571, *Sport, igrališta i ostali rekreacijski sadržaji i oprema***

prEN 13451-3 en

Swimming pool equipment – Part 3: Additional specific safety requirements and test methods for inlets and outlets and water/air based water leisure features installed in pools for public use

EN 15567-1:2015/prA1 en

Sports and recreational facilities – Ropes courses – Part 1: Construction and safety requirements

Objekti za sport i rekreaciju – Adrenalinski parkovi – 1. dio: Izvedba i sigurnosni zahtjevi

prEN ISO 20957-2 en

Stationary training equipment – Part 2: Strength training equipment, additional specific safety requirements and test methods (ISO/DIS 20957-2:2019)

prEN ISO 20957-7 en

Stationary training equipment – Part 7: Rowing equipment, additional specific safety requirements and test methods (ISO/DIS 20957-7:2019)

## **HZN/TO E11, *Nadzemni vodovi***

prEN IEC 61854:2019 en

Overhead lines – Requirements and tests for spacers (IEC 61854:201X)

Nadzemni vodovi – Zahtjevi i ispitivanja za odstoynike (IEC 61854:201X)

prEN IEC 61897:2019 en

Overhead lines – Requirements and tests for Aeolian vibration dampers (IEC 61897:201X)

## **HZN/TO E13, *Oprema za mjerenje električne energije te upravljanje tarifom i potrošnjom***

prEN IEC 62052-11:2019 en

Electricity metering equipment (a.c.) – General requirements, tests and test conditions – Part 11: Metering equipment (IEC 62052-11:201X)

Električna brojila za izmjeničnu struju – Opći zahtjevi, ispitivanja i ispitni uvjeti – 11. dio: Mjerna oprema (IEC 62052-11:201X)

prEN IEC 62053-21:2019 en

Electricity metering equipment (a.c.) – Particular requirements – Part 21: Static meters for active energy (classes 1 and 2) (IEC 62053-21:201X)

Električna brojila za izmjeničnu struju – Posebni zahtjevi – 21. dio: Statička brojila djelatne energije (razreda 1 i 2) (IEC 62053-21:201X)

prEN IEC 62053-22:2019 en

Electricity metering equipment (a.c.) – Particular requirements – Part 22: Static meters for active energy (classes 0,1 S, 0,2 S and 0,5 S) (IEC 62053-22:201X)

Električna brojila za izmjeničnu struju – Posebni zahtjevi – 22. dio: Statička brojila djelatne energije (razreda 0,1 S, 0,2 S i 0,5 S) (IEC 62053-22:201X)

prEN IEC 62053-23:2019 en

Electricity metering equipment (a.c.) – Particular requirements – Part 23: Static meters for reactive energy (classes 2 and 3) (IEC 62053-23:201X)

Električna brojila za izmjeničnu struju – Posebni zahtjevi – 23. dio: Statička brojila jalove energije (razreda 2 i 3) (IEC 62053-23:201X)

prEN IEC 62053-24:2019 en

Electricity metering equipment (a.c.) – Particular requirements – Part 24: Static meters for reactive energy at fundamental frequency (classes 0,5 S, 1 S, 1, 2 and 3) (IEC 62053-24:201X)

Električna brojila za izmjeničnu struju – Posebni zahtjevi – 24. dio: Statička brojila jalove energije osnovne frekvencije (razreda 0,5 S, 1 S, 1, 2 i 3) (IEC 62053-24:201X)

## **HZN/TO E17, *Sklopni i upravljački uređaji***

prEN IEC 60947-6-2:2019 en

Low-voltage switchgear and controlgear – Part 6-2: Multiple function equipment – Control and protective switching devices (or equipment) (CPS) (IEC 60947-6-2:201X)

Niskonaponska sklopna aparatura – Dio 6-2: Višefunkcijska oprema – Upravljački i zaštitni sklopni aparati (ili oprema) (CPS) (IEC 60947-6-2:201X)

## **HZN/TO E20, *Električni kabeli***

EN 60754-1:2014/prA1:2019 en

Test on gases evolved during combustion of materials from cables – Part 1: Determination of the halogen acid gas content (IEC 60754-1:2011/am1:201X)

Ispitivanje plinova razvijenih pri izgaranju kabelskog materijala – 1. dio: Određivanje sadržaja plina halogene kiseline (IEC 60754-1:2011/am1:201X)

EN 60754-2:2014/prA1:2019 en

Test on gases evolved during combustion of materials from cables – Part 2: Determination of acidity (by pH measurement) and conductivity (IEC 60754-2:2011/am1:201X)

Ispitivanje plinova razvijenih pri izgaranju kabelskog materijala – 2. dio: Određivanje kiselosti mjerenjem PH i vodljivosti (IEC 60754-2:2011/am1:201X)

EN 61034-1:2005/prA2:2019 en

Measurement of smoke density of cables burning under defined conditions – Part 1: Test apparatus (IEC 61034-1:2005/am2:201X)

Ispitivanje gustoće dima kod kabela pod definiranim uvjetima – 1. dio: Ispitni uređaji (IEC 61034-1:2005/am2:201X)

EN 61034-2:2005/prA2:2019 en

Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements (IEC 61034-2:2005/am2:201X)

Ispitivanje gustoće dima kod kabela koji gore pod utvrđenim uvjetima – 2. dio: Ispitni postupci i zahtjevi (IEC 61034-2:2005/am2:201X)

## **HZN/TO E22, *Energetska elektronika***

prEN 50171:2019 en

Central safety power supply systems

## **HZN/TO E31, *Eksplzivne atmosfere***

prEN 14373 en

Explosion suppression systems  
Sustavi sprječavanja eksplozije

prEN 17348 en

Requirements for design and testing of vacuum cleaners and dust collectors for use in potentially explosive atmospheres

EN 60079-29-1:2016/prA1:2019 en

Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases (IEC 60079-29-1:2016/am1:201X)

Eksplzivne atmosfere – Dio 29-1: Oprema za otkrivanje i mjerenje zapaljivih plinova – Zahtjevi za pogonska svojstva opreme za otkrivanje i mjerenje zapaljivih plinova (IEC 60079-29-1:2016/am1:201X)

## **HZN/TO E45, *Nuklearna instrumentacija***

IEC 60462:2010 en

Nuclear instrumentation – Photomultiplier tubes for scintillation counting – Test procedures

Nuklearna instrumentacija – Fotomultiplikatorske cijevi za scintilacijske brojače – Ispitni postupci

- IEC 60737:2010 en  
Nuclear power plants – Instrumentation important to safety – Temperature sensors (in-core and primary coolant circuit) – Characteristics and test methods  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Senzori temperature (u jezgri i primarnom krugu za hlađenje) – Karakteristike i metode ispitivanja
- IEC 60768:2009 en  
Nuclear power plants – Instrumentation important to safety – Equipment for continuous in-line or on-line monitoring of radioactivity in process streams for normal and incident conditions  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Oprema za neprekidno in-line ili on-line praćenje radioaktivnosti u procesnom toku za redovite i izvanredne uvjete
- IEC 60951-1:2009 en  
Nuclear power plants – Instrumentation important to safety – Radiation monitoring for accident and post-accident conditions – Part 1: General requirements  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Praćenje radioaktivnosti u akcidentalnim i postakcidentalnim uvjetima – 1. dio: Opći zahtjevi
- IEC 60951-2:2009 en  
Nuclear power plants – Instrumentation important to safety – Radiation monitoring for accident and post-accident conditions – Part 2: Equipment for continuous off-line monitoring of radioactivity in gaseous effluents and ventilation air  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Praćenje radioaktivnosti u akcidentalnim i postakcidentalnim uvjetima – 2. dio: Oprema za neprekidno izvanmrežno praćenje radioaktivnosti otpadnih plinova i zraka iz ventilacije
- IEC 60951-3:2009 en  
Nuclear power plants – Instrumentation important to safety – Radiation monitoring for accident and post-accident conditions – Part 3: Equipment for continuous high range area gamma monitoring  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Praćenje radioaktivnosti u akcidentalnim i postakcidentalnim uvjetima – 3. dio: Oprema za neprekidno praćenje velikog opsega gama zračenja
- IEC 60951-4:2009 en  
Nuclear power plants – Instrumentation important to safety – Radiation monitoring for accident and post-accident conditions – Part 4: Equipment for continuous in-line or on-line monitoring of radioactivity in process streams  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Praćenje radioaktivnosti u akcidentalnim i postakcidentalnim uvjetima – 4. dio: Oprema za neprekidno in-line ili on-line praćenje radioaktivnosti u procesnom toku
- IEC 60988:2009 en  
Nuclear power plants – Instrumentation important to safety – Acoustic monitoring systems for detection of loose parts: characteristics, design criteria and operational procedures  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Zvučni sustav za praćenje detekcije izgubljenih dijelova: karakteristike, kriteriji za izvedbu i radni postupci
- IEC 61504:2017 en  
Nuclear facilities – Instrumentation and control systems important to safety – Centralized systems for continuous monitoring of radiation and/or levels of radioactivity  
Nuklearna postrojenja – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Središnji sustavi za neprekidno praćenje zračenja i/ili razine radioaktivnosti
- IEC 61559-1:2009 en  
Radiation protection instrumentation in nuclear facilities – Centralized systems for continuous monitoring of radiation and/or levels of radioactivity – Part 1: General requirements  
Instrumentacija u zaštiti od zračenja u nuklearnim postrojenjima – Središnji sustavi za kontinuirano praćenje zračenja i/ili razine radioaktivnosti – 1. dio: Opći zahtjevi
- IEC 62003:2009 en  
Nuclear power plants – Instrumentation and control important to safety – Requirements for electromagnetic compatibility testing  
Nuklearne elektrane – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Zahtjevi za testiranje elektromagnetske kompatibilnosti
- prEN 62138:2019 en  
Nuclear power plants – Instrumentation and control systems important to safety – Software aspects for computer-based systems performing category B or C functions (IEC 62138:2018)
- IEC 62302:2007 en  
Radiation protection instrumentation – Equipment for sampling and monitoring radioactive noble gases  
Instrumentacija u zaštiti od zračenja – Oprema za uzorkovanje i praćenje radioaktivnosti plemenitih plinova
- IEC 62397:2007 en  
Nuclear power plants – Instrumentation and control important to safety – Resistance temperature detectors  
Nuklearne elektrane – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Termootpornički detektori
- IEC 62438:2010 en  
Radiation protection instrumentation – Mobile instrumentation for the measurement of photon and neutron radiation in the environment  
Instrumentacija u zaštiti od zračenja – Mobilna instrumentacija za mjerenja fotonskog i neutronske zračenja u okolišu
- IEC 62463:2010 en  
Radiation protection instrumentation – X-ray systems for the screening of persons for security and the carrying of illicit items  
Instrumentacija u zaštiti od zračenja – Rendgenski sustavi za provjeru osoba zbog sigurnosnih razloga i nošenja nedopuštenog materijala
- IEC 62465:2010 en  
Nuclear power plants – Instrumentation and control important to safety – Management of ageing of electrical cabling systems  
Nuklearne elektrane – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Upravljanje starenjem sustava električnih vodova
- IEC 62484:2010 en  
Radiation protection instrumentation – Spectroscopy-based portal monitors used for the detection and identification of illicit trafficking of radioactive material  
Instrumentacija u zaštiti od zračenja – Spektroskopski prijenosni uređaji za detekciju i identifikaciju radioaktivnog materijala u nedopuštenom prometu
- IEC 62523:2010 en  
Radiation protection instrumentation – Cargo/vehicle radiographic inspection system  
Instrumentacija u zaštiti od zračenja – Sustav za radiografski pregled tereta/vozila
- prEN 62976 en  
Industrial non-destructive testing equipment – Electron linear accelerator (IEC 62976:2017)
- HZN/TO E55, Žice za namote**
- EN 60851-5:2008/prA2:2019 en  
Winding wires – Test methods – Part 5: Electrical properties (IEC 60851-5:2008/am2:201X)  
Žice za namote – Ispitne metode – 5. dio: Električna svojstva (IEC 60851-5:2008/am2:201X)
- HZN/TO E56, Pouzdanost**
- prEN IEC 61123:2019 en  
Reliability testing – Compliance test plans for success ratio (IEC 61123:201X)  
Ispitivanje pouzdanosti – Planovi ispitivanja usklađenosti za stopu uspješnosti (IEC 61123:201X)
- prEN IEC 62960:2019 en  
Dependability reviews during the life cycle (IEC 62960:201X)  
Pregledi pouzdanosti tijekom životnog ciklusa (IEC 62960:201X)
- HZN/TO E61, Sigurnost električnih kućanskih i sličnih aparata**
- EN 60335-2-6:2015/FprAA:2019 en  
Household and similar electrical appliances – Safety – Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances  
Kućanski i slični električni aparati – Sigurnost – Dio 2-6: Posebni zahtjevi za nepomične štednjake, kuhala, pećnice i slične aparate

## HZN/TO E78, Rad pod naponom

EN 50186-2:1998/prAA:2019 en  
Live-line washing systems for power installations with nominal voltages above 1kV – Part 2: Specific national requirements (national annexes to EN 50186-1:1998)

## HZN/TO E85, Oprema za mjerenje električnih i elektromagnetskih veličina

prEN 50678:2019 en  
General procedure for verifying the effectiveness of the protective measures of electrical equipment after repair

## HZN/TO E100, Audio, video i multimedijски sustavi te njihova oprema

prEN IEC 62680-1-2:2019 en  
Universal serial bus interfaces for data and power – Part 1-2: Common components – USB Power Delivery specification (IEC 62680-1-2:201X)  
Sučelja univerzalnih serijskih sabirnica za podatke i napajanje – Dio 1-2: Opći dijelovi – Specifikacija USB-a za isporuku energije (IEC 62680-1-2:201X)

EN 62760:2016/prA1:2019 en  
Audio reproduction method for normalized loudness level (TA 20) (IEC 62760:2016/am1:201X)  
Metoda reprodukcije zvučnog signala za normiranu glasnoću (IEC 62760:2016/am1:201X)

## HZN/TO E108, Sigurnost elektroničke opreme u području audio, video, informacijske i komunikacijske tehnologije

prEN IEC 62368-1:2019 en  
Audio/video, information and communication technology equipment – Part 1: Safety requirements (IEC 62368-1:2018)  
Oprema audio/video, informacijske i komunikacijske tehnologije – 1. dio: Zahtjevi sigurnosti (IEC 62368-1:2018)

prEN IEC 62368-1:2019/prAA:2019 en  
Audio/video, information and communication technology equipment – Part 1: Safety requirements  
Oprema audio/video, informacijske i komunikacijske tehnologije – 1. dio: Zahtjevi sigurnosti

## HZN/TO T4, Normizacija u telekomunikacijama

Draft EN 300 132-2 V2.5.9:2019 en  
Environmental Engineering (EE) – Power supply interface at the input of – Information and Communication Technology (ICT) equipment – Part 2: -48 V Direct Current (DC)  
Tehnologija za zaštitu okoliša (EE) – Sučelje za izvore napajanja na ulazu opreme informacijsko-komunikacijske tehnologije (ICT) – 2. dio: -48 V istosmjerna struja (DC)

Draft EN 319 532-3 V1.1.3:2019 en  
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 3: Formats  
Elektronički potpisi i infrastrukture (ESI) – Davatelji usluga registrirane elektroničke pošte (REM) – 3. dio: Formati

## HZN/TO Z1, Informacijska tehnologija

ISO/IEC 9798-3:2019 en  
IT Security techniques – Entity authentication – Part 3: Mechanisms using digital signature techniques  
Sigurnosne tehnike IT-a – Autentifikacija subjekta – 3. dio: Mehanizmi korištenja tehnika digitalnog potpisa

ISO/IEC 10118-3:2018 en  
IT Security techniques – Hash-functions – Part 3: Dedicated hash-functions  
Sigurnosne tehnike IT-a – Hash-funkcije – 3. dio: Namjenske hash-funkcije

ISO/IEC 14888-3:2018 en  
IT Security techniques – Digital signatures with appendix – Part 3: Discrete logarithm based mechanisms  
Sigurnosne tehnike IT-a – Digitalni potpis s dopunom – 3. dio: Mehanizmi koji se temelje na diskretnom logaritmu

## HZN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1

prEN 1269 en  
Floor coverings – Assessment of impregnations in needed floor coverings by means of a soiling test  
Podne obloge – Ocjena impregnacije iglanih podnih obloga pomoću ispitivanja zemljom

prEN ISO 22301 en  
Security and resilience – Business continuity management systems – Requirements (ISO/DIS 22301:2019)

## HZN/TU I2, Strojstvo 2

prEN ISO 20785-1 en  
Dosimetry for exposures to cosmic radiation in civilian aircraft – Part 1: Conceptual basis for measurements (ISO/DIS 20785-1:2019)  
Dozimetrija izloženosti kozmičkom zračenju u civilnim zrakoplovima – 1. dio: Konceptualna osnova za mjerenja (ISO/DIS 20785-1:2019)

## HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1

prEN ISO 5840-1 en  
Cardiovascular implants – Cardiac valve prostheses – Part 1: General requirements (ISO/DIS 5840-1:2019)  
Kardiovaskularni implantati – Umjetni srčani zalisci – 1. dio: Opći zahtjevi (ISO/DIS 5840-1:2019)

prEN ISO 5840-2 en  
Cardiovascular implants – Cardiac valve prostheses – Part 2: Surgically implanted heart valve substitutes (ISO/DIS 5840-2:2019)  
Kardiovaskularni implantati – Umjetni srčani zalisci – 2. dio: Kirurški ugrađeni nadomjesci srčanog zaliska (ISO/DIS 5840-2:2019)

prEN ISO 5840-3 en  
Cardiovascular implants – Cardiac valve prostheses – Part 3: Heart valve substitutes implanted by transcatheter techniques (ISO/DIS 5840-3:2019)  
Kardiovaskularni implantati – Umjetni srčani zalisci – 3. dio: Nadomjesci srčanog zaliska ugrađeni putem katetera (ISO/DIS 5840-3:2019)

prEN ISO 14708-5 en  
Implants for surgery – Active implantable medical devices – Part 5: Circulatory support devices (ISO/DIS 14708-5:2019)  
Kirurški implantati – Aktivni implantabilni medicinski uređaji – 5. dio: Uređaji za potpomaganje cirkulacije (ISO/DIS 14708-5:2019)

prEN ISO 21850-1 en  
Dentistry – Materials for dental instruments – Part 1: Stainless steel (ISO/DIS 21850-1:2019)  
Stomatologija – Materijali za zubarske instrumente – 1. dio: Nehrdajući čelik (ISO/DIS 21850-1:2019)

prEN ISO 22570 en  
Dentistry – Spoons and bone curettes (ISO/DIS 22570:2019)  
Stomatologija – Žlice i strugači za kosti (ISO/DIS 22570:2019)

## HZN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1

prEN 415-4 en  
Safety of packaging machines – Part 4: Palletizers and depalletizers and associated equipment

FprEN 3155-003 en  
Aerospace series – Electrical contacts used in elements of connection – Part 003: Contacts, electrical, female, type A, crimp, class S – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 003: Kontakti, električni, ženski, tip A, za krimpanje, razreda S – Norma za proizvod

FprEN 3155-009 en  
Aerospace series – Electrical contacts used in elements of connection – Part 009: Contacts, electrical, female, type A, crimp, class S – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 009: Kontakti, električni, ženski, tip A, za krimpanje, razreda S – Norma za proizvod

FprEN 3155-026 en  
Aerospace series – Electrical contacts used in elements of connection – Part 026: Contacts, electrical, male, type A, crimp, class R – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 026: Kontakti, električni, muški, tip A, za krimpiranje, razreda R – Norma za proizvod

FprEN 3155-027 en  
Aerospace series – Electrical contacts used in elements of connection – Part 027: Contacts, electrical, female, type A, crimp, class R – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 027: Kontakti, električni, ženski, tip A, za krimpiranje, razreda R – Norma za proizvod

FprEN 3484 en  
Aerospace series – Steel FE-CM61 – As cast – Reference heat treatment: homogenised, solution treated, precipitation hardened and sub zero – Remelting stock

FprEN 3486 en  
Aerospace series – Steel FE-PM67 – Solution annealed and precipitation hardened –  $1\ 400 \leq R_m \leq 1\ 550$  MPa – Forgings –  $De \leq 100$  mm

FprEN 3489 en  
Aerospace series – Steel FE-PA13 – Softened –  $500 \leq R_m \leq 750$  MPa – Tubes for structures –  $0,5 \leq a \leq 5$  mm

FprEN 3510 en  
Aerospace series – Heat resisting alloy FE-PA2602 (X4NiCrTiMoV26-15) – Solution treated and precipitation treated – Bar and section –  $De \leq 100$  mm

FprEN 3645-001 en  
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 001: Technical specification  
Zrakoplovstvo – Spojnice, električne, okrugle, sa zaštitnim plaštom za pinove, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – Dio 001: Tehničke specifikacije

FprEN 4612-007 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 007: Silver plated copper – Operating temperatures, between -65 °C and 150 °C – Single extruded wall for open applications, with jacket without screen – UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – Dio 007: Bakar prevučen srebrom – Radna temperatura između -65 °C i 150 °C – Jednostruka izolacija zida za upotrebu na otvorenom, sa oblogom bez oklopa – Ispisivanje pomoću UV lasera – Norma za proizvod

FprEN 4707 en  
Aerospace series – Acid pickling of aluminium and aluminium alloys without hexavalent chromium  
Zrakoplovstvo – Kiselo dekapiranje aluminija i legura aluminija bez šesterovalentnog kroma

prEN 4709-001 en  
Aerospace series – Unmanned Aircraft Systems – Product requirements and verification for the Open category

## HZN/TU U1, Opća elektrotehnika 1

prEN IEC 61788-7:2019 en  
Superconductivity – Part 7: Electronic characteristic measurements – Surface resistance of superconductors at microwave frequencies (IEC 61788-7:201X)  
Supravodljivost – 7. dio: Mjerenja elektroničkih karakteristika – Površinska otpornost supravodiča na mikrovalnim frekvencijama (IEC 61788-7:201X)

## HZN/TU V1, Elektronika 1

prEN IEC 60793-2:2019 en  
Optical fibres – Part 2: Product specifications – General (IEC 60793-2:201X)

EN 60794-1-21:2015/prA1:2019 en  
Optical fibre cables – Part 1-21: Generic specification – Basic optical cable test procedures – Mechanical tests methods (IEC 60794-1-21:2015/am1:201X)

prEN IEC 60794-1-215:2019 en  
Optical Fibre Cables – Part 1-215: Generic specification – Basic optical cable test procedures – Environmental test methods – Cable external freezing test, Method F15 (IEC 60794-1-215:201X)

prEN IEC 61754-35:2019 en  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 35: Type LSHE connector series for harsh environments (IEC 61754-35:201X)

prEN IEC 62343-2-1:2019 en  
Dynamic modules – Reliability – Part 2-1: Qualification test template (IEC 62343-2-1:201X)

prEN IEC 62878-1:2019 en  
Device embedding assembly technology – Part 1: Generic specification for device embedded substrates (IEC 62878-1:201X)

prEN IEC 62941:2019 en  
Terrestrial photovoltaic (PV) modules – Quality system for PV module manufacturing (IEC 62941:201X)

## HZN/TU W1, Energetska elektrotehnika 1

EN 50636-2-107:2015/prA2 en  
Safety of household and similar appliances – Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers  
Sigurnost kućanskih i sličnih aparata – Dio 2-107: Posebni zahtjevi za robotske kosilice koje se napajaju iz baterije

prEN IEC 62984-1:2019 en  
High temperature secondary batteries – Part 1: General aspects, definitions and tests (IEC 62984-1:201X)

prEN IEC 62984-2:2019 en  
High Temperature secondary Batteries – Part 2: Safety requirements and tests of cells and batteries (IEC 62984-2:201X)

prEN IEC 62984-3:2019 en  
High Temperature secondary Batteries – Part 3: Sodium-based Batteries – Performance requirements and tests (IEC 62984-3:201X)

prEN IEC 63136:2019 en  
Electric dishwashers for commercial use – Test methods for measuring the performance (IEC 63136:201X)

## 1.4 Povučene hrvatske norme

Na prijedlog tehničkog odbora ravnatelj Hrvatskoga zavoda za norme donosi odluku o povlačenju hrvatske norme kada je donesena nova hrvatska norma ili kada je postojeća hrvatska norma postala neprimjenjiva.

Kada je koje područje uređeno propisima i neki od propisa (pravilnik, naredba, naputak) upućuje na norme koje su povučene, one se primjenjuju silom tih propisa i bit će, do izmjene propisa ili izradbe novih, na raspolaganju u Normoteci HZN-a.

## HZN/TO 6, Papir, karton i pulpe

HRN EN ISO 7263:2011 en  
Valoviti sloj – Određivanje otpora valovitog sloja na pritisak poslije izrade valova u laboratoriju (ISO 7263:2011; EN ISO 7263:2011)  
Corrugating medium – Determination of the flat crush resistance after laboratory fluting (ISO 7263:2011; EN ISO 7263:2011)  
- zamijenjena s: HRN EN ISO 7263-1:2019, HRN EN ISO 7263-2:2019

## HZN/TO 120, Koža i obuća

HRN EN ISO 5398-4:2008 en  
Koža – Kemijsko određivanje sadržaja kromovih oksida – 4. dio: Metoda s induktivno spregnutom plazmom – Optički emisijski spektrometar (ICP-OES) (ISO 5398-4:2007; EN ISO 5398-4:2007)  
Leather – Chemical determination of chromic oxide content – Part 4: Quantification by inductively coupled plasma – Optical emission spectrometer (ICP-OES) (ISO 5398-4:2007; EN ISO 5398-4:2007)  
- zamijenjena s: HRN EN ISO 5398-4:2019

HRN EN ISO 17226-1:2008 en

Koža – Kemijsko određivanje sadržaja formaldehida – 1. dio: Metoda tekućinske kromatografije visokog učinka (HPLC) (ISO 17226-1:2008; EN ISO 17226-1:2008)  
Leather – Chemical determination of formaldehyde content – Part 1: Method using high performance liquid chromatography (ISO 17226-1:2008; EN ISO 17226-1:2008)  
- zamijenjena s: HRN EN ISO 17226-1:2019

HRN EN ISO 17226-2:2008 en

Koža – Kemijsko određivanje sadržaja formaldehida – 2. dio: Metoda kolorimetrijske analize (ISO 17226-2:2008; EN ISO 17226-2:2008)  
Leather – Chemical determination of formaldehyde content – Part 2: Method using colorimetric analysis (ISO 17226-2:2008; EN ISO 17226-2:2008)  
- zamijenjena s: HRN EN ISO 17226-2:2019

HRN EN ISO 17226-2:2008/Ispr.1:2009 en

Koža – Kemijsko određivanje sadržaja formaldehida – 2. dio: Metoda kolorimetrijske analize (ISO 17226-2:2008/Cor 1:2009; EN ISO 17226-2:2008/AC:2009)  
Leather – Chemical determination of formaldehyde content – Part 2: Method using colorimetric analysis (ISO 17226-2:2008/Cor 1:2009; EN ISO 17226-2:2008/AC:2009)  
- zamijenjena s: HRN EN ISO 17226-2:2019

## **HZN/TO 121, Anestetička i respiracijska oprema**

HRN EN ISO 10524-1:2008 en

Regulatori tlaka za uporabu s medicinskim plinovima – 1. dio: Regulatori tlaka i regulatori tlaka s uređajima za mjerenje protoka (ISO 10524-1:2006; EN ISO 10524-1:2006)  
Pressure regulators for use with medical gases – Part 1: Pressure regulators and pressure regulators with flow-metering devices (ISO 10524-1:2006; EN ISO 10524-1:2006)  
- zamijenjena s: HRN EN ISO 10524-1:2019

HRN EN ISO 10524-2:2008 en

Regulatori tlaka za uporabu s medicinskim plinovima – 2. dio: Regulatori tlaka baterija boca i tlaka središnjeg sustava opskrbe (ISO 10524-2:2005; EN ISO 10524-2:2006)  
Pressure regulators for use with medical gases – Part 2: Manifold and line pressure regulators (ISO 10524-2:2005; EN ISO 10524-2:2006)  
- zamijenjena s: HRN EN ISO 10524-2:2019

HRN EN ISO 10524-3:2008 en

Regulatori tlaka za uporabu s medicinskim plinovima – 3. dio: Regulatori tlaka integrirani s ventilima na boci (ISO 10524-3:2005; EN ISO 10524-3:2006)  
Pressure regulators for use with medical gases – Part 3: Pressure regulators integrated with cylinder valves (ISO 10524-3:2005; EN ISO 10524-3:2006)  
- zamijenjena s: HRN EN ISO 10524-3:2019

HRN EN ISO 10524-3:2008/A1:2013 en

Regulatori tlaka za uporabu s medicinskim plinovima – 3. dio: Regulatori tlaka uklopljeni s ventilima na boci – Amandman 1: Filtracija i informacije koje daje proizvođač (ISO 10524-3:2005/Amd 1:2013; EN ISO 10524-3:2006/A1:2013)  
Pressure regulators for use with medical gases – Part 3: Pressure regulators integrated with cylinder valves – Amendment 1: Filtration and information to be supplied by the manufacturer (ISO 10524-3:2005/Amd 1:2013; EN ISO 10524-3:2006/A1:2013)  
- zamijenjena s: HRN EN ISO 10524-3:2019

HRN EN ISO 80601-2-61:2011 en

Medicinski električni uređaji – Dio 2-61: Posebni zahtjevi za osnovnu sigurnost i nužne značajke uređaja puls oximetra (ISO 80601-2-61:2011; EN ISO 80601-2-61:2011)  
Medical electrical equipment – Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment (ISO 80601-2-61:2011; EN ISO 80601-2-61:2011)  
- zamijenjena s: HRN EN ISO 80601-2-61:2019

## **HZN/TO 138, Plastične cijevi, spojnice i ventili za prijenos tekućina**

HRN EN ISO 11296-7:2013 en

Plastični cijevni sustavi za obnavljanje podzemnih netlačnih mreža za odvodnju i kanalizaciju – 7. dio: Oblaganje spiralno namotanom cijevima (ISO 11296-7:2011; EN ISO 11296-7:2013)  
Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks – Part 7: Lining with spirally-wound pipes (ISO 11296-7:2011; EN ISO 11296-7:2013)  
- zamijenjena s: HRN EN ISO 11296-7:2019

## **HZN/TO 196, Prirodni kamen**

HRN EN 16140:2011 en

Metode ispitivanja prirodnog kamena – Određivanje osjetljivosti na promjene izgleda izazvane toplinskim ciklusima (EN 16140:2011)  
Natural stone test methods – Determination of sensitivity to changes in appearance produced by thermal cycles (EN 16140:2011)  
- zamijenjena s: HRN EN 16140:2019

## **HZN/TO 207, Upravljanje okolišem**

HRN EN ISO 14064-1:2012 en

Staklenički plinovi – 1. dio: Specifikacija sa smjericama na razini organizacije za kvantificiranje i izvješćivanje o emisijama i uklanjanju stakleničkih plinova (ISO 14064-1:2006; EN ISO 14064-1:2012)  
Greenhouse gases – Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals (ISO 14064-1:2006; EN ISO 14064-1:2012)  
- zamijenjena s: HRN EN ISO 14064-1:2019

## **HZN/TO 211, Geoinformacije/Geomatika**

HRN EN ISO 19115-2:2011 en

Geoinformacije – Metapodaci – 2. dio: Proširenja za podatke snimaka i podatke u mrežnim okvirima (ISO 19115-2:2009; EN ISO 19115-2:2010)  
Geographic information – Metadata – Part 2: Extensions for imagery and gridded data (ISO 19115-2:2009; EN ISO 19115-2:2010)  
- zamijenjena s: HRN EN ISO 19115-2:2019

## **HZN/TO 217, Kozmetika**

HRN EN ISO 11930:2012 en

Kozmetika – Mikrobiologija – Vrednovanje antimikrobne zaštite kozmetičkog proizvoda (ISO 11930:2012, ispravljena verzija 2013-05-01; EN ISO 11930:2012)  
Cosmetics – Microbiology – Evaluation of the antimicrobial protection of a cosmetic product (ISO 11930:2012, Corrected version 2013-05-01; EN ISO 11930:2012)  
- zamijenjena s: HRN EN ISO 11930:2019

## **HZN/TO 503, Metalni materijali**

HRN EN ISO 683-3:2018 en

Toplinski obradivi čelici, legirani čelici i čelici za obradu na automatima – 3. dio: Čelici za cementiranje (ISO 683-3:2016; EN ISO 683-3:2018)  
Heat-treatable steels, alloy steels and free-cutting steels – Part 3: Case-hardening steels (ISO 683-3:2016; EN ISO 683-3:2018)  
- zamijenjena s: HRN EN ISO 683-3:2019

## **HZN/TO 504, Korozija i zaštita metala i legura**

HRN ISO 4524-2:2000 en

Metalne prevlake – Metode ispitivanja elektronanesenih prevlaka zlata i zlatnih legura – 2. dio: Ispitivanje utjecaja okoliša (ISO 4524-2:1985)  
Metallic coatings – Test methods for electrodeposited gold and gold alloy coatings – Part 2: Environmental test (ISO 4524-2:1985)  
- zamijenjena s: HRN ISO 4524-2:2019

HRN EN ISO 10111:2002 en

Metalne i druge anorganske prevlake – Mjerenje mase po jediničnoj površini – Pregled metoda gravimetrijskih i kemijskih analiza (ISO 10111:2000; EN ISO 10111:2001)  
Metallic and other inorganic coatings – Measurement of mass per unit area – Review of gravimetric and chemical analysis methods (ISO 10111:2000; EN ISO 10111:2001)  
- zamijenjena s: HRN EN ISO 10111:2019

## **HZN/TO 506, Materijali, oprema i konstrukcije za naftnu industriju, prirodni plin i geotermalnu vodu**

HRN EN ISO 6145-7:2010 en

Analiza plina – Priprava plinskih smjesa za umjeravanje upotrebom dinamičkih volumetrijskih metoda – 7. dio: Toplinska kontrola protoka mase (ISO 6145-7:2009; EN ISO 6145-7:2010)  
Gas analysis – Preparation of calibration gas mixtures using dynamic volumetric methods – Part 7: Thermal mass-flow controllers (ISO 6145-7:2009; EN ISO 6145-7:2010)  
- zamijenjena s: HRN EN ISO 6145-7:2019

## **HZN/TO 518, Podovi, stropovi i zidne obloge**

HRN EN 13454-2:2008 en

Veziva, kompozitna veziva i tvornički pripremljene mješavine za estrihe na osnovi kalcijevog sulfata – 2. dio: Ispitne metode (EN 13454-2:2003+A1:2007)

Binders, composite binders and factory made mixtures for floor screeds based on calcium sulfate – Part 2: Test methods (EN 13454-2:2003+A1:2007)

- zamijenjena s: HRN EN 13454-2:2019

## **HZN/TO 521, Usluge održavanja**

HRN ISO 55002:2016 en

Upravljanje imovinom – Sustavi upravljanja – Smjernice za primjenu norme ISO 55001 (ISO 55002:2014)

Asset management – Management systems – Guidelines for the application of ISO 55001 (ISO 55002:2014)

- zamijenjena s: HRN ISO 55002:2019

## **HZN/TO 526, Bitumenska veziva**

HRN EN 13074-1:2011 en

Bitumen i bitumenska veziva – Izdvajanje veziva iz bitumenske emulzije ili razrijeđenoga ili omekšanoga bitumenskog veziva – 1. dio: Izdvajanje isparavanjem (EN 13074-1:2011)

Bitumen and bituminous binders – Recovery of binder from bituminous emulsion or cut-back or fluxed bituminous binders – Part 1: Recovery by evaporation (EN 13074-1:2011)

- zamijenjena s: HRN EN 13074-1:2019

HRN EN 13074-2:2011 en

Bitumen i bitumenska veziva – Izdvajanje veziva iz bitumenske emulzije ili razrijeđenoga ili omekšanoga bitumenskog veziva – 2. dio: Stabilizacija nakon izdvajanja isparavanjem (EN 13074-2:2011)

Bitumen and bituminous binders – Recovery of binder from bituminous emulsion or cut-back or fluxed bituminous binders – Part 2: Stabilisation after recovery by evaporation (EN 13074-2:2011)

- zamijenjena s: HRN EN 13074-2:2019

## **HZN/TO 528, Oprema za željeznice**

HRN EN 13146-1:2014 en

Željeznički sustav – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrtni pribor – 1. dio: Određivanje otpora uzdužnomu pomicanju tračnice (EN 13146-1:2012+A1:2014)

Railway applications – Track – Test methods for fastening systems – Part 1: Determination of longitudinal rail restraint (EN 13146-1:2012+A1:2014)

- zamijenjena s: HRN EN 13146-1:2019

HRN EN 13146-7:2012 en

Željeznički sustav – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrtni pribor – 7. dio: Određivanje pričvrstne sile (EN 13146-7:2012)

Railway applications – Track – Test methods for fastening systems – Part 7: Determination of clamping force (EN 13146-7:2012)

- zamijenjena s: HRN EN 13146-7:2019

## **HZN/TO 531, Plastika i guma**

HRN EN ISO 294-4:2004 en

Plastika – Injekcijsko prešani ispitni plastomernih materijala – 4. dio: Određivanje skupljanja pri prešanju (ISO 294-4:2001; EN ISO 294-4:2003)

Plastics – Injection moulding of test specimens of thermoplastic materials – Part 4: Determination of moulding shrinkage (ISO 294-4:2001; EN ISO 294-4:2003)

- zamijenjena s: HRN EN ISO 294-4:2019

HRN EN ISO 2818:2008 en

Plastika – Priprema ispitnika mehaničkim odvajanjem (ISO 2818:1994; EN ISO 2818:1996)

Plastics – Preparation of test specimens by machining (ISO 2818:1994; EN ISO 2818:1996)

- zamijenjena s: HRN EN ISO 2818:2019

## **HZN/TO 541, Sustavi grijanja, ventilacije i klimatizacije u građevinama**

HRN EN 13141-1:2004 en

Ventilacija u zgradama – Ispitivanje dijelova/proizvoda za stambenu ventilaciju – 1. dio: Uređaji za prijenos zraka montirani izvana i iznutra (EN 13141-1:2004)

Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 1: Externally and internally mounted air transfer devices (EN 13141-1:2004)

- zamijenjena s: HRN EN 13141-1:2019

## **HZN/TO 550, Opskrba vodom**

HRN EN 12873-3:2008 en

Utjecaj materijala na vodu namijenjenu ljudskoj uporabi – Utjecaj zbog migracije – 3. dio: Ispitna metoda za ionske izmjenjivače i adsorpcijske smole (EN 12873-3:2006)

Influence of materials on water intended for human consumption – Influence due to migration – Part 3: Test method for ion exchange and adsorbent resins (EN 12873-3:2006)

- zamijenjena s: HRN EN 12873-3:2019

## **HZN/TO 555, Medicinski proizvodi**

HRN EN ISO 15195:2007 en

Laboratorijska medicina – Zahtjevi za referentne mjerne laboratorije (ISO 15195:2003; EN ISO 15195:2003)

Laboratory medicine – Requirements for reference measurement laboratories (ISO 15195:2003; EN ISO 15195:2003)

- zamijenjena s: HRN EN ISO 15195:2019

HRS CEN/TS 16827-3:2015 en

Molekularne in vitro dijagnostičke pretrage – Specifikacije za prethodne ispitne postupke za tkivo fiksirano formalinom i uronjeno u parafin (FFPE) – 3. dio: Izolirana DNK (CEN/TS 16827-3:2015)

Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for FFPE tissue – Part 3: Isolated DNA (CEN/TS 16827-3:2015)

- zamijenjena s: HRN EN ISO 20166-3:2019

## **HZN/TO 568, Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranom**

HRN ISO 18593:2008 en

Mikrobiologija hrane i hrane za životinje – Horizontalne metode za postupke uzorkovanja s površina upotrebom kontaktnih ploča i briseva (ISO 18593:2004)

Microbiology of food and animal feeding stuffs – Horizontal methods for sampling techniques from surfaces using contact plates and swabs (ISO 18593:2004)

- zamijenjena s: HRN EN ISO 18593:2019

## **HZN/TO E8, Sustavski vidovi opskrbe električnom energijom**

HRS IEC/PAS 62559:2008 en

Metodologija pametne mreže za razvoj zahtjeva za energetske sustave (IEC/PAS 62559:2008)

Intelligrid methodology for developing requirements for energy systems (IEC/PAS 62559:2008)

- zamijenjena s: HRN EN 62559-2:2015

## **HZN/TO E15, Čvrsti elektrotehnički izolacijski materijali**

HRN EN 60455-2:2005 en

Reaktivne mješavine na bazi smola koje se upotrebljavaju za električnu izolaciju – 2. dio: Metode ispitivanja (IEC 60455-2:1998; EN 60455-2:1999)

Resin based reactive compounds used for electrical insulation – Part 2: Methods of test (IEC 60455-2:1998; EN 60455-2:1999)

- zamijenjena s: HRN EN 60455-2:2015

## **HZN/TO E45, Nuklearna instrumentacija**

HRN IEC 60050-393:2005 en,fr

Međunarodni elektrotehnički rječnik – Poglavlje 393: Nuklearna instrumentacija – Fizikalne pojave i osnovni pojmovi (IEC 60050-393:2003)

International Electrotechnical Vocabulary – Part 393: Nuclear instrumentation – Physical phenomena and basic concepts (IEC 60050-393:2003)

- bez zamjene

- HRN IEC 60256:2001 en  
Vanjski promjeri cilindričnih, radijacijskih Geiger-Muller brojača ili proporcionalnih brojača ili scintilacijskih detektora (IEC 60256:1967)  
External diameters of cylindrical radiation probes containing Geiger-Muller or proportional counter tubes or scintillation detectors (IEC 60256:1967)  
- bez zamjene
- HRN IEC 60333:1998 en  
Nuklearna instrumentacija – Poluvodički detektori nabijenih čestica – Ispitni postupci (IEC 60333:1993)  
Nuclear instrumentation – Semiconductor charged-particle detectors – Test procedures (IEC 60333:1993)  
- bez zamjene
- HRN IEC 60412:2009 en  
Nuklearna instrumentacija – Scintilacijski detektori – Nomenklatura (identifikacija) – Standardne dimenzije scintilatora (IEC 60412:2007)  
Nuclear instrumentation – Scintillation detectors – Nomenclature (identification) – Standard dimensions of scintillators (IEC 60412:2007)  
- bez zamjene
- HRN IEC 60476:1998 en  
Nuklearna instrumentacija – Električni mjerni sustavi i instrumenti koji koriste izvore ionizirajućeg zračenja – Opći aspekti (IEC 60476:1993)  
Nuclear instrumentation – Electrical measuring systems and instruments utilizing ionizing radiation sources – General aspects (IEC 60476:1993)  
- bez zamjene
- HRN IEC 60482:2001 en  
Dimenzije modula elektroničkih instrumenta (za nuklearne elektroničke instrumente) (IEC 60482:1975)  
Dimensions of electronic instrument modules (for nuclear electronic instruments) (IEC 60482:1975)  
- bez zamjene
- HRN IEC 60527:2001 en  
Pojačala istosmjerne struje – Značajke i ispitne metode (IEC 60527:1975)  
Direct current amplifiers – Characteristics and test methods (IEC 60527:1975)  
- bez zamjene
- HRN IEC 60532:1998 en  
Instrumentacija za zaštitu od zračenja – Instalirani mjerači brzine doze, upozoravajući sklopovi i monitori X i gama-zračenja energije između 50 keV i 7 MeV (IEC 60532:1992)  
Radiation protection instrumentation – Installed dose ratemeters, warning assemblies and monitors-X and gamma radiation of energy between 50 keV and 7 MeV (IEC 60532:1992)  
- bez zamjene
- HRN IEC 60582:2001 en  
Dimenzije posuda za tekuće scintilacijske brojače (IEC 60582:1977)  
Dimensions of vials for liquid scintillation counting (IEC 60582:1977)  
- bez zamjene
- HRN IEC 60583:2001 en  
Dimenzije posuda od stakla ili plastike koje služe za mjerenje radioaktivnosti (IEC 60583:1977)  
Dimensions of test tubes made of glass or plastics for radioactivity measurements (IEC 60583:1977)  
- bez zamjene
- HRN IEC 60583A:2001 en  
Dimenzije posuda od stakla ili plastike koje služe za mjerenje radioaktivnosti – Prvi dodatak (IEC 60583A:1981)  
Dimensions of test tubes made of glass or plastics for radioactivity measurements – First supplement (IEC 60583A:1981)  
- bez zamjene
- HRN IEC 60600:2001 en  
Oprema koja služi za analizu i razvrstavanje radioaktivne rude u posude u rudnicima (IEC 60600:1979)  
Equipment for minehead assay and sorting radioactive ores in containers (IEC 60600:1979)  
- bez zamjene
- HRN IEC 60650:2001 en  
Analogni mjerači brzine doze – Značajke i ispitne metode (IEC 60650:1979)  
Analogue counting ratemeters – Characteristics and test methods (IEC 60650:1979)  
- bez zamjene
- HRN IEC 60739:2001 en  
Digitalni mjerač brzine doze – Značajke i ispitne metode (IEC 60739:1983)  
Digital counting ratemeters – Characteristics and test methods (IEC 60739:1983)  
- bez zamjene
- HRN IEC 60741:2001 en  
Višekanalni amplitudni analizatori – Norme za pretvarače vrijeme-amplituda (IEC 60741:1982)  
Multichannel amplitude analyzers – Standards for time-to-amplitude converters (IEC 60741:1982)  
- bez zamjene
- HRN IEC 60777:1998 en  
Terminologija, veličine i jedinice koje se tiču zaštite od zračenja (IEC 60777:1983)  
Terminology, quantities and units concerning radiation protection (IEC 60777:1983)  
- bez zamjene
- HRN IEC 60808:2001 en  
Komplementarna instrumentacija za brojače brzine doze – Značajke i ispitne metode (IEC 60808:1985)  
Complementary instrumentation for counting ratemeters – Characteristics and test methods (IEC 60808:1985)  
- bez zamjene
- HRN IEC 60830:1998 en  
Ispitni postupci za višekanalne analizatore koji služe kao višekanalni brojači (IEC 60830:1987)  
Test methods for multichannel analyzers as multichannel scalars (IEC 60830:1987)  
- bez zamjene
- HRN IEC 60860:1998 en  
Oprema za upozoravanje za nezgode kritičnosti (IEC 60860:1987)  
Warning equipment for criticality accidents (IEC 60860:1987)  
- bez zamjene
- HRN IEC 60935:2001 en  
Modularno prikupljanje podataka velike brzine (IEC 60935:1996)  
Modular high speed data acquisition (IEC 60935:1996)  
- bez zamjene
- HRN IEC 60937:2001 en  
Dimenzije završnoga pokrova kriostata za germanijeve poluvodičke detektore za spektrometriju gama zraka (IEC 60937:1988)  
Cryostat end-cap dimensions for germanium semiconductor detectors for gamma-ray spectrometers (IEC 60937:1988)  
- bez zamjene
- HRN EN 60987:2011 en  
Nuklearne elektrane – Instrumentacija i upravljanje važni za sigurnost – Projektni zahtjevi za hardver računalnog sustava (IEC 60987:2007, MOD; EN 60987:2009)  
Nuclear power plants – Instrumentation and control important to safety – Hardware design requirements for computer-based systems (IEC 60987:2007, MOD; EN 60987:2009)  
- zamijenjena s: HRN EN 60987:2015
- HRN IEC 61017-1:1998 en  
Prijenosni, prevozivi ili instalirani X ili gama mjerači brzine zračenja za nadziranje okoliša – 1. dio: Mjerači brzine (IEC 61017-1:1991)  
Portable, transportable or installed X or gamma radiation ratemeters for environmental monitoring – Part 1: Ratemeters (IEC 61017-1:1991)  
- bez zamjene
- HRN IEC 61017-2:1998 en  
Instrumentacija za zaštitu od zračenja – Prijenosna, prevoziva ili instalirana oprema za mjerenje X ili gama zračenja za nadziranje okoliša – 2. dio: Integrirajući sklopovi (IEC 61017-2:1994)  
Radiation protection instrumentation – Portable, transportable or installed equipment to measure X or gamma radiation for environmental monitoring – Part 2: Integrating assemblies (IEC 61017-2:1994)  
- bez zamjene



- HRN IEC 61018:1998 en  
Prijenosni instrumenti za mjerenje doze i brzine doze beta zračenja i fotona u području visokih doza u slučaju zaštite od zračenja kod izvanredno teških uvjeta (IEC 61018:1991)  
High range beta and photon dose and dose rate portable instruments for emergency radiation protection purposes (IEC 61018:1991)  
- bez zamjene
- HRN IEC 61052:2001 en  
FASTBUS – Standardni postupci za uporabu (IEC 61052:1991)  
FASTBUS standard routines – Standard routines for use (IEC 61052:1991)  
- bez zamjene
- HRN IEC 61066:2007 en  
Termoluminescentni dozimetrijski sustavi za mjerenja doza u osobnoj dozimetriji i u okolišu (IEC 61066:2006)  
Thermoluminescence dosimetry systems for personal and environmental monitoring (IEC 61066:2006)  
- bez zamjene
- HRN IEC 61134:1998 en  
Instrumentacija za mjerenje iz zraka gama zračenja tla (IEC 61134:1992)  
Airborne instrumentation for measurement of terrestrial gamma radiation (IEC 61134:1992)  
- bez zamjene
- HRN IEC 61151:1998 en  
Pojačala i pretpojačala koja se rabe s detektorima ionizirajućeg zračenja – Ispitni postupci (IEC 61151:1992)  
Amplifiers and preamplifiers used with detectors of ionizing radiation – Test procedures (IEC 61151:1992)  
- bez zamjene
- HRN IEC 61263:1998 en  
Instrumentacija za zaštitu od zračenja – Prijenosni mjerač potencijala energije alfa zračenja za brza mjerenja u rudnicima (IEC 61263:1994)  
Radiation protection instrumentation – Portable potential alpha energy meter for rapid measurements in mines (IEC 61263:1994)  
- bez zamjene
- HRN IEC 61283:1998 en  
Instrumentacija za zaštitu od zračenja – Monitori s izravnim očitanjem osobnog doznog ekvivalenta (brzine doznog ekvivalenta) – X, gama i visokoenergijsko beta zračenje (IEC 61283:1995)  
Radiation protection instrumentation – Direct reading personal dose equivalent (rate)monitors – X, gamma and high energy beta radiation (IEC 61283:1995)  
- bez zamjene
- HRN IEC 61306:2001 en  
Mikroprocesorski uređaji za mjerenje nuklearnoga zračenja (IEC 61306:1994)  
Microprocessor based nuclear radiation measuring devices (IEC 61306:1994)  
- bez zamjene
- HRN IEC 61323:1998 en  
Instrumentacija za zaštitu od zračenja – Neutronska zračenje – Monitori s izravnim očitanjem osobnog doznog ekvivalenta i/ili brzine doznog ekvivalenta (IEC 61323:1995)  
Radiation protection instrumentation – Neutron radiation – Direct reading personal dose equivalent and/or dose equivalent rate monitors (IEC 61323:1995)  
- bez zamjene
- HRN IEC 61342:1998 en  
Nuklearna instrumentacija – Višekanalni analizatori visine pulsa – Glavne značajke, tehnički zahtjevi i ispitne metode (IEC 61342:1995)  
Nuclear instrumentation – Multichannel pulse height analyzers – Main characteristics, technical requirements and test methods (IEC 61342:1995)  
- bez zamjene
- HRN IEC 61344:1998 en  
Instrumentacija za zaštitu od zračenja – Oprema za nadziranje – Osobni upozoravajući uređaji za X i gama zračenje (IEC 61344:1996)  
Radiation protection instrumentation – Monitoring equipment – Personal warning devices for X and gamma radiations (IEC 61344:1996)  
- bez zamjene
- HRN IEC 61428:2001 en  
Posude koje se koriste za spektrometriju gama-zraka pomoću Ge detektora (IEC 61428:1998)  
Sample containers for gamma-ray spectrometry with Ge- detectors (IEC 61428:1998)  
- bez zamjene
- HRN IEC 61435:1998 en  
Nuklearna instrumentacija – Germanijevi kristali visoke čistoće za detektore zračenja (IEC 61435:1996)  
Nuclear instrumentation – High purity germanium crystals for radiation detectors (IEC 61435:1996)  
- bez zamjene
- HRN IEC 61455:1998 en  
Nuklearna instrumentacija – MCA histogramski format za razmjenu podataka za nuklearnu spektroskopiju (IEC 61455:1995)  
Nuclear instrumentation – MCA histogram data interchange format for nuclear spectroscopy (IEC 61455:1995)  
- bez zamjene
- HRN IEC 61525:1998 en  
Instrumentacija za zaštitu od zračenja – X, gama, visokoenergijsko beta i neutronske zračenja – Monitori s izravnim očitanjem osobnog doznog ekvivalenta i/ili brzine doznog ekvivalenta (IEC 61525:1996)  
Radiation protection instrumentation – X, gamma, high energy beta and neutron radiations – Direct reading personal dose equivalent and/or dose equivalent rate monitors (IEC 61525:1996)  
- bez zamjene
- HRN IEC 61976:2001 en  
Značajke spektra pozadinskog zračenja u HPGe gama spektrometriji (IEC 61976:2000)  
Spectrometry – Characterization of the spectrum background in HPGe gamma-ray spectrometry (IEC 61976:2000)  
- bez zamjene
- HRN IEC 62401:2008 en  
Instrumentacija u zaštiti od zračenja – Alarmni osobni uređaji (PRD) za detekciju radioaktivnog materijala koji se nedopušteno krijumčari (IEC 62401:2007)  
Radiation protection instrumentation – Alarming personal radiation devices (PRD) for detection of illicit trafficking of radioactive material (IEC 62401:2007)  
- bez zamjene

### **HZN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1**

- HRN EN ISO 9994:2008 en  
Upaljači – Sigurnosne specifikacije (ISO 9994:2005+Amd 1:2008; EN ISO 9994:2006+A1:2008)  
Lighters – Safety specification (ISO 9994:2005+Amd 1:2008; EN ISO 9994:2006+A1:2008)  
- zamijenjena s: HRN EN ISO 9994:2019

### **HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1**

- HRN EN ISO 23907:2013 en  
Zaštita ozljeđivanja od oštrica – Zahtjevi i metode ispitivanja – Spremnici za oštrice (ISO 23907:2012; EN ISO 23907:2012)  
Sharps injury protection – Requirements and test methods – Sharps containers (ISO 23907:2012; EN ISO 23907:2012)  
- zamijenjena s: HRN EN ISO 23907-1:2019

## 1.6 Ispravci hrvatskih norma

U popisima hrvatskih norma objavljenim u ranijim brojevima službenog glasila potkrale su se pogreške. Niže navodimo ispravne oznake i naslove hrvatskih norma. Navedeni ispravci smatraju se službenom informacijom i nisu nužno uključeni u norme koje su prethodno objavljene.

### HZN/TO 44, Zavarivanje i srodni postupci

- **umjesto**

HRN EN ISO 5175-1:2017  
Oprema za plinsko zavarivanje – Sigurnosni uređaji – 1. dio: Ugrađen zaustavljač povratnog udara plamena (ISO 5175-1:2017; EN ISO 5175-1:2017)  
Gas welding equipment – Safety devices – Part 1: Devices incorporating a flame (flashback) arrestor (ISO 5175-1:2017; EN ISO 5175-1:2017)

- **treba biti**

HRN EN ISO 5175-1:2017  
Oprema za plinsko zavarivanje – Sigurnosni uređaji – 1. dio: **Uređaji s ugrađenim zaustavljačem** povratnog udara plamena (ISO 5175-1:2017; EN ISO 5175-1:2017)  
Gas welding equipment – Safety devices – Part 1: Devices incorporating a flame (flashback) arrestor (ISO 5175-1:2017; EN ISO 5175-1:2017)

- **umjesto**

HRN EN ISO 5175-2:2017  
Oprema za plinsko zavarivanje – Sigurnosni uređaji – 2. dio: Bez ugrađenog zaustavljača povratnog udara plamena (ISO 5175-2:2017; EN ISO 5175-2:2017)  
Gas welding equipment – Safety devices – Part 2: Not incorporating a flame (flashback) arrestor (ISO 5175-2:2017; EN ISO 5175-2:2017)

- **treba biti**

HRN EN ISO 5175-2:2017  
Oprema za plinsko zavarivanje – Sigurnosni uređaji – 2. dio: **Uređaji bez ugrađenog zaustavljača** povratnog udara plamena (ISO 5175-2:2017, **ispravljena verzija 2019-01**; EN ISO 5175-2:2017)  
Gas welding equipment – Safety devices – Part 2: **Devices not incorporating a flame (flashback) arrestor** (ISO 5175-2:2017, **Corrected version 2019-01**; EN ISO 5175-2:2017)

### HZN/TO 215, Medicinska informatika

- **umjesto**

HRN EN ISO 11073-10103:2014  
Medicinska informatika – Povezivost medicinskog uređaja u trenutku liječenja – 10103. dio: Nomenklatura – Srčani implantati (ISO/IEEE 11073-10103:2014; EN ISO 11073-10103:2013)  
Health informatics – Point-of-care medical device communication – Part 10103: Nomenclature – Implantable device, cardiac (ISO/IEEE 11073-10103:2014; EN ISO 11073-10103:2013)

- **treba biti**

HRN EN ISO 11073-10103:2014  
Medicinska informatika – Povezivost medicinskog uređaja u trenutku liječenja – 10103. dio: Nomenklatura – Srčani implantati (ISO/IEEE 11073-10103:2014, **ispravljena verzija 2014-05-01**; EN ISO 11073-10103:2013)  
Health informatics – Point-of-care medical device communication – Part 10103: Nomenclature – Implantable device, cardiac (ISO/IEEE 11073-10103:2014, **Corrected version 2014-05-01**; EN ISO 11073-10103:2013)

### HZN/TO 557, Zaštitna odjeća

- **umjesto**

HRN EN 1149-3:2005  
Zaštitna odjeća – Elektrostatička svojstva – 3. dio: **Ispitne metode** za mjerenje pada naboja (EN 1149-3:2004)  
Protective clothing – Electrostatic properties – Part 3: Test methods for measurement of charge decay (EN 1149-3:2004)

- **treba biti**

HRN EN 1149-3:2005  
Zaštitna odjeća – Elektrostatička svojstva – 3. dio: **Metode ispitivanja** za mjerenje pada naboja (EN 1149-3:2004)  
Protective clothing – Electrostatic properties – Part 3: Test methods for measurement of charge decay (EN 1149-3:2004)

- **umjesto**

HRN EN 13277-6:2004  
Zaštitna oprema za borilačke sportove – 6. dio: Dodatni zahtjevi i **ispitne metode** za prsne štitičke za žene (EN 13277-6:2003)  
Protective equipment for martial arts – Part 6: Additional requirements and test methods for breast protectors for females (EN 13277-6:2003)

- **treba biti**

HRN EN 13277-6:2004  
Zaštitna oprema za borilačke sportove – 6. dio: Dodatni zahtjevi i **metode ispitivanja** za prsne štitičke za žene (EN 13277-6:2003)  
Protective equipment for martial arts – Part 6: Additional requirements and test methods for breast protectors for females (EN 13277-6:2003)

- **umjesto**

HRN EN 13277-7:2010  
Zaštitna oprema za borilačke sportove – 7. dio: Dodatni zahtjevi i **ispitne metode** za štitičke šake i stopala (EN 13277-7:2009)  
Protective equipment for martial arts – Part 7: Additional requirements and test methods for hand and foot protectors (EN 13277-7:2009)

- **treba biti**

HRN EN 13277-7:2010  
Zaštitna oprema za borilačke sportove – 7. dio: Dodatni zahtjevi i **metode ispitivanja** za štitičke šake i stopala (EN 13277-7:2009)  
Protective equipment for martial arts – Part 7: Additional requirements and test methods for hand and foot protectors (EN 13277-7:2009)

- **umjesto**

HRN EN 13356:2003  
Dodaci za vidljivost za neprofesionalnu uporabu – Zahtjevi i **ispitne metode** (EN 13356:2001)  
Visibility accessories for non-professional use – Test methods and requirements (EN 13356:2001)

- **treba biti**

HRN EN 13356:2003  
Dodaci za vidljivost za neprofesionalnu uporabu – Zahtjevi i **metode ispitivanja** (EN 13356:2001)  
Visibility accessories for non-professional use – Test methods and requirements (EN 13356:2001)

- **umjesto**

HRN EN 13546:2008  
Zaštitna odjeća – Štitičke za šaku, ruku, prsni koš, trbuh, nogu, stopalo i genitalije za vratare i štitičke za goljenicu za igrače hokeja na zemlji – Zahtjevi i **ispitne metode** (EN 13546:2002+A1:2007)  
Protective clothing – Hand, arm, chest, abdomen, leg, foot and genital protectors for field hockey goal keepers, and shin protectors for field players – Requirements and test methods (EN 13546:2002+A1:2007)

- **treba biti**

HRN EN 13546:2008  
Zaštitna odjeća – Štitičke za šaku, ruku, prsni koš, trbuh, nogu, stopalo i genitalije za vratare i štitičke za goljenicu za igrače hokeja na zemlji – Zahtjevi i **metode ispitivanja** (EN 13546:2002+A1:2007)  
Protective clothing – Hand, arm, chest, abdomen, leg, foot and genital protectors for field hockey goal keepers, and shin protectors for field players – Requirements and test methods (EN 13546:2002+A1:2007)

• **umjesto**  
HRN EN 14021:2004  
Štitnici od kamena za izvancestovni motociklizam prilagođeni za zaštitu vozača od kamenja i krhotina – Zahtjevi i **ispitne metode** (EN 14021:2003)  
Stone shields for off-road motorcycling suited to protect riders against stones and debris – Requirements and test methods (EN 14021:2003)

• **treba biti**  
HRN EN 14021:2004  
Štitnici od kamena za izvancestovni motociklizam prilagođeni za zaštitu vozača od kamenja i krhotina – Zahtjevi i **metode ispitivanja** (EN 14021:2003)  
Stone shields for off-road motorcycling suited to protect riders against stones and debris – Requirements and test methods (EN 14021:2003)

• **umjesto**  
HRN EN 14360:2005  
Odjeća za zaštitu od kiše – **Ispitna metoda** za gotove odjevne predmete – Udarci odozgo kapima velike energije (EN 14360:2004)  
Protective clothing against rain – Test method for ready made garments – Impact from above with high energy droplets (EN 14360:2004)

• **treba biti**  
HRN EN 14360:2005  
Odjeća za zaštitu od kiše – **Metoda ispitivanja** za gotove odjevne predmete – Udarci odozgo kapima velike energije (EN 14360:2004)  
Protective clothing against rain – Test method for ready made garments – Impact from above with high energy droplets (EN 14360:2004)

• **umjesto**  
HRN EN 15613:2010  
Štitnici za koljeno i lakat za sportove u zatvorenim prostorima – Sigurnosni zahtjevi i **ispitne metode** (EN 15613:2008)  
Knee and elbow protectors for indoor sports – Safety requirements and test methods (EN 15613:2008)

• **treba biti**  
HRN EN 15613:2010  
Štitnici za koljeno i lakat za sportove u zatvorenim prostorima – Sigurnosni zahtjevi i **metode ispitivanja** (EN 15613:2008)  
Knee and elbow protectors for indoor sports – Safety requirements and test methods (EN 15613:2008)

## HZN/TO E501, *Elektroakustika i ultrazvuk*

• **umjesto**  
HRN EN 61260-2:2016  
Elektroakustika – Oktavni i pojasni filtri s proporcionalnim širinama pojasa – 2. dio: **Tipno** ispitivanje (IEC 61260-2:2016; EN 61260-2:2016)  
Electroacoustics – Octave-band and fractional-octave-band filters – Part 2: Pattern-evaluation tests (IEC 61260-2:2016; EN 61260-2:2016)

• **treba biti**  
HRN EN 61260-2:2016  
Elektroakustika – Oktavni i pojasni filtri s proporcionalnim širinama pojasa – 2. dio: **Tipsko** ispitivanje (IEC 61260-2:2016; EN 61260-2:2016)  
Electroacoustics – Octave-band and fractional-octave-band filters – Part 2: Pattern-evaluation tests (IEC 61260-2:2016; EN 61260-2:2016)

• **umjesto**  
HRN EN 61260-2:2016/A1:2017  
Elektroakustika – Oktavni i pojasni filtri s proporcionalnim širinama pojasa – 2. dio: **Tipno** ispitivanje (IEC 61260-2:2016/am1:2017; EN 61260-2:2016/A1:2017)  
Electroacoustics – Octave-band and fractional-octave-band filters – Part 2: Pattern-evaluation tests (IEC 61260-2:2016/am1:2017; EN 61260-2:2016/A1:2017)

• **treba biti**  
HRN EN 61260-2:2016/A1:2017  
Elektroakustika – Oktavni i pojasni filtri s proporcionalnim širinama pojasa – 2. dio: **Tipsko** ispitivanje (IEC 61260-2:2016/am1:2017; EN 61260-2:2016/A1:2017)  
Electroacoustics – Octave-band and fractional-octave-band filters – Part 2: Pattern-evaluation tests (IEC 61260-2:2016/am1:2017; EN 61260-2:2016/A1:2017)

• **umjesto**  
HRN EN IEC 61265:2018  
Elektroakustika – Instrumenti za mjerenje buke zrakoplova – Izvedbeni zahtjevi za sustave koji mjere razine zvučnog **pritisaka** za potrebe certificiranja buke zrakoplova (IEC 61265:2018; EN IEC 61265:2018)  
Electroacoustics – Instruments for measurement of aircraft noise – Performance requirements for systems to measure sound pressure levels in noise certification of aircraft (IEC 61265:2018; EN IEC 61265:2018)

• **treba biti**  
HRN EN IEC 61265:2018  
Elektroakustika – Instrumenti za mjerenje buke zrakoplova – Izvedbeni zahtjevi za sustave koji mjere razine zvučnog **tlaka** za potrebe certificiranja buke zrakoplova (IEC 61265:2018; EN IEC 61265:2018)  
Electroacoustics – Instruments for measurement of aircraft noise – Performance requirements for systems to measure sound pressure levels in noise certification of aircraft (IEC 61265:2018; EN IEC 61265:2018)

• **umjesto**  
HRN EN 61672-2:2014  
Elektroakustika – Zvukomjeri – 2. dio: **Tipno** ispitivanje (IEC 61672-2:2013; EN 61672-2:2013)  
Electroacoustics – Sound level meters – Part 2: Pattern evaluation tests (IEC 61672-2:2013; EN 61672-2:2013)

• **treba biti**  
HRN EN 61672-2:2014  
Elektroakustika – Zvukomjeri – 2. dio: **Tipsko** ispitivanje (IEC 61672-2:2013; EN 61672-2:2013)  
Electroacoustics – Sound level meters – Part 2: Pattern evaluation tests (IEC 61672-2:2013; EN 61672-2:2013)

• **umjesto**  
HRN EN 61672-2:2014/A1:2017  
Elektroakustika – Zvukomjeri – 2. dio: **Tipno** ispitivanje (IEC 61672-2:2013/am1:2017; EN 61672-2:2013/A1:2017)  
Electroacoustics – Sound level meters – Part 2: Pattern evaluation tests (IEC 61672-2:2013/am1:2017; EN 61672-2:2013/A1:2017)

• **treba biti**  
HRN EN 61672-2:2014/A1:2017  
Elektroakustika – Zvukomjeri – 2. dio: **Tipsko** ispitivanje (IEC 61672-2:2013/am1:2017; EN 61672-2:2013/A1:2017)  
Electroacoustics – Sound level meters – Part 2: Pattern evaluation tests (IEC 61672-2:2013/am1:2017; EN 61672-2:2013/A1:2017)

## HZN/TO Z1, *Informacijska tehnologija*

• **umjesto**  
HRN ISO/IEC 15408-1:2013  
Informacijska tehnologija – Sigurnosne tehnike – Kriteriji za vrednovanje sigurnosti IT-a – 1. dio: Uvod i opći model (ISO/IEC 15408-1:2009)  
Information technology – Security techniques – Evaluation criteria for IT security – Part 1: Introduction and general model (ISO/IEC 15408-1:2009)

• **treba biti**  
HRN ISO/IEC 15408-1:2013  
Informacijska tehnologija – Sigurnosne tehnike – Kriteriji za vrednovanje sigurnosti IT-a – 1. dio: Uvod i opći model (ISO/IEC 15408-1:2009, **ispravljena verzija 2014-01**)  
Information technology – Security techniques – Evaluation criteria for IT security – Part 1: Introduction and general model (ISO/IEC 15408-1:2009, **Corrected version 2014-01**)

• **umjesto**  
HRN ISO/IEC 15408-2:2013  
Informacijska tehnologija – Sigurnosne tehnike – Kriteriji za vrednovanje sigurnosti IT-a – 2. dio: Funkcionalni zahtjevi za sigurnost (ISO/IEC 15408-2:2008)  
Information technology – Security techniques – Evaluation criteria for IT security – Part 2: Security functional requirements (ISO/IEC 15408-2:2008)

• **treba biti**  
HRN ISO/IEC 15408-2:2013  
Informacijska tehnologija – Sigurnosne tehnike – Kriteriji za vrednovanje sigurnosti IT-a – 2. dio: Funkcionalni zahtjevi za sigurnost (ISO/IEC 15408-2:2008, **ispravljena verzija 2011-05**)  
Information technology – Security techniques – Evaluation criteria for IT security – Part 2: Security functional requirements (ISO/IEC 15408-2:2008, **Corrected version 2011-05**)

• **umjesto**  
HRN ISO/IEC 15408-3:2013  
Informacijska tehnologija – Sigurnosne tehnike – Kriteriji za vrednovanje sigurnosti IT-a – 3. dio: Jamstveni zahtjevi za sigurnost (ISO/IEC 15408-3:2008)  
Information technology – Security techniques – Evaluation criteria for IT security – Part 3: Security assurance requirements (ISO/IEC 15408-3:2008)

• **treba biti**  
HRN ISO/IEC 15408-3:2013  
Informacijska tehnologija – Sigurnosne tehnike – Kriteriji za vrednovanje sigurnosti IT-a – 3. dio: Jamstveni zahtjevi za sigurnost (ISO/IEC 15408-3:2008, **ispravljena verzija 2011-05**)  
Information technology – Security techniques – Evaluation criteria for IT security – Part 3: Security assurance requirements (ISO/IEC 15408-3:2008, **Corrected version 2011-05**)

• **umjesto**  
HRN ISO/IEC 18045:2015  
Informacijska tehnologija – Sigurnosne tehnike – Metodologija za vrednovanje sigurnosti IT-a (ISO/IEC 18045:2008)  
Information technology – Security techniques – Methodology for IT security evaluation (ISO/IEC 18045:2008)

• **treba biti**  
HRN ISO/IEC 18045:2015  
Informacijska tehnologija – Sigurnosne tehnike – Metodologija za vrednovanje sigurnosti IT-a (ISO/IEC 18045:2008, **ispravljena verzija 2014-01**)  
Information technology – Security techniques – Methodology for IT security evaluation (ISO/IEC 18045:2008, **Corrected version 2014-01**)

• **umjesto**  
HRN ISO/IEC 19790:2013  
Informacijska tehnologija – Sigurnosne tehnike – Sigurnosni zahtjevi za kriptografske module (ISO/IEC 19790:2012)  
Information technology – Security techniques – Security requirements for cryptographic modules (ISO/IEC 19790:2012)

• **treba biti**  
HRN ISO/IEC 19790:2013  
Informacijska tehnologija – Sigurnosne tehnike – Sigurnosni zahtjevi za kriptografske module (ISO/IEC 19790:2012, **ispravljena verzija 2015-11**)  
Information technology – Security techniques – Security requirements for cryptographic modules (ISO/IEC 19790:2012, **Corrected version 2015-11**)

• **umjesto**  
HRN ISO/IEC 27033-2:2013  
Informacijska tehnologija – Sigurnosne tehnike – Mrežna sigurnost – 2. dio: Smjernice za projektiranje i implementaciju mrežne sigurnosti (ISO/IEC 27033-2:2012)  
Information technology – Security techniques – Network security – Part 2: Guidelines for the design and implementation of network security (ISO/IEC 27033-2:2012)

• **treba biti**  
HRN ISO/IEC 27033-2:2013  
Informacijska tehnologija – Sigurnosne tehnike – Mrežna sigurnost – 2. dio: Smjernice za projektiranje i implementaciju mrežne sigurnosti (ISO/IEC 27033-2:2012, **ispravljena verzija 2012-08**)  
Information technology – Security techniques – Network security – Part 2: Guidelines for the design and implementation of network security (ISO/IEC 27033-2:2012, **Corrected version 2012-08**)

## HZN/TU I2, Strojstvo 2

• **umjesto**  
HRN EN ISO 19014-1:2018  
Strojevi za zemljane radove – Funkcionalna sigurnost – 1. dio: Metodologija za određivanje sigurnosnih dijelova sustava za upravljanje i zahtjeva za izvedbu (ISO 19014-1:2018; EN ISO 19014-1:2018)  
Earth-moving machinery – Functional safety – Part 1: Methodology to determine safety-related parts of the control system and performance requirements (ISO 19014-1:2018; EN ISO 19014-1:2018)

• **treba biti**  
HRN EN ISO 19014-1:2018  
Strojevi za zemljane radove – Funkcionalna sigurnost – 1. dio: Metodologija za određivanje sigurnosnih dijelova sustava za upravljanje i zahtjeva za izvedbu (ISO 19014-1:2018, **ispravljena verzija 2019-02**; EN ISO 19014-1:2018)  
Earth-moving machinery – Functional safety – Part 1: Methodology to determine safety-related parts of the control system and performance requirements (ISO 19014-1:2018, **Corrected version 2019-02**; EN ISO 19014-1:2018)

## HZN/TU U1, Opća elektrotehnika 1

• **umjesto**  
HRN EN 61788-7:2008  
Supravodljivost – 7. dio: **Elektroničke karakteristike mjerenja** – Površinska otpornost supravodiča na mikrovalnim frekvencijama (IEC 61788-7:2006; EN 61788-7:2006)  
Superconductivity – Part 7: Electronic characteristic measurements – Surface resistance of superconductors at microwave frequencies (IEC 61788-7:2006; EN 61788-7:2006)

• **treba biti**  
HRN EN 61788-7:2008  
Supravodljivost – 7. dio: **Mjerenja elektroničkih karakteristika** – Površinska otpornost supravodiča na mikrovalnim frekvencijama (IEC 61788-7:2006; EN 61788-7:2006)  
Superconductivity – Part 7: Electronic characteristic measurements – Surface resistance of superconductors at microwave frequencies (IEC 61788-7:2006; EN 61788-7:2006)

## 1.10 Prijevodi hrvatskih normativnih dokumenata

### HZN/TO 172, Optika i optički instrumenti

Sljedeća hrvatska norma objavljena na engleskome jeziku sada je dostupna i na hrvatskome jeziku:

HRN EN ISO 11554:2017 hr-en pr-pp  
Optika i fotonika – Laseri i pridružena oprema – Metode ispitivanja za snagu, energiju i vremenske značajke laserskog snopa (ISO 11554:2017; EN ISO 11554:2017)  
Optics and photonics – Lasers and laser-related equipment – Test methods for laser beam power, energy and temporal characteristics (ISO 11554:2017; EN ISO 11554:2017)

### HZN/TO 573, Elektronički račun

Sljedeća hrvatska norma objavljena na engleskome jeziku sada je dostupna i na hrvatskome i engleskome jeziku, kao dvojezično izdanje:

HRN EN 16931-1:2017 hr,en-en pr-pp  
Elektronički račun – 1. dio: Semantički model podataka osnovnih elemenata elektroničkog računa (EN 16931-1:2017)  
Electronic invoicing – Part 1: Semantic data model of the core elements of an electronic invoice (EN 16931-1:2017)

## 2 Rezultati međunarodne i europske normizacije razvrstani po predmetnom ustroju

### 01.040.11 Tehnologija zdravstvene zaštite (Rječnici)

Međunarodna normizacija  
ISO

ISO 11979-1:2018  
Ophthalmic implants – Intraocular lenses – Part 1:  
Vocabulary

### 01.040.25 Proizvodna tehnika (Rječnici)

Međunarodna normizacija  
ISO

ISO 8000-2:2018  
Data quality – Part 2: Vocabulary

### 01.040.31 Elektronika (Rječnici)

Međunarodna normizacija  
ISO

ISO 11145:2018  
Optics and photonics – Lasers and laser-related equipment  
– Vocabulary and symbols

### 01.040.83 Industrija gume i plastike (Rječnici)

Međunarodna normizacija  
ISO

ISO 472 AMD 1:2018  
Plastics – Vocabulary – Amendment 1: Additional items

### 01.080.40 Grafički simboli za upotrebu na električnim i elektroničkim crtežima, shemama, grafikonima i odgovarajućoj dokumentaciji o tehničkome proizvodu

Međunarodna normizacija  
ISO

ISO 11145:2018  
Optics and photonics – Lasers and laser-related equipment  
– Vocabulary and symbols

### 01.110 Tehnička dokumentacija o proizvodu

Međunarodna normizacija  
IEC

IEC 62474:2018  
Material declaration for products of and for the electrotechnical industry

### 01.120 Normizacija. Opća pravila

Međunarodna normizacija  
ISO

ISO/IEC Directives Part 1 + Supplement JTC 1:2018  
ISO/IEC Directives, Part 1 – Consolidated JTC 1 Supplement  
– Procedures specific to JTC 1

IEC

IEC Guide 116:2018  
Guidelines for safety related risk assessment and risk reduction for low voltage equipment

### 01.140.20 Informacijske znanosti

Međunarodna normizacija  
ISO

ISO/TR 21946:2018  
Information and documentation – Appraisal for managing records

### 03.080.30 Usluge za potrošače

Međunarodna normizacija  
ISO

ISO 21041:2018  
Guidance on unit pricing

ISO 21426:2018  
Tourism and related services – Medical spas – Service requirements

### 03.100.01 Ustroj poduzeća i upravljanje poduzećem općenito

Međunarodna normizacija  
ISO

ISO 22320:2018  
Security and resilience – Emergency management  
– Guidelines for incident management

ISO 55002:2018  
Asset management – Management systems – Guidelines for the application of ISO 55001

### 03.100.20 Trgovina. Trgovačka djelatnost. Marketing

Međunarodna normizacija  
ISO

ISO 21041:2018  
Guidance on unit pricing

### 03.100.30 Upravljanje ljudskim resursima

Međunarodna normizacija  
ISO

ISO 30401:2018  
Knowledge management systems – Requirements

### 03.100.70 Sustavi upravljanja

Međunarodna normizacija  
IEC

IEC 62746-10-1:2018  
Systems interface between customer energy management system and the power management system – Part 10-1: Open automated demand response

### **03.120.99 Ostale norme koje se odnose na kvalitetu**

#### **Europska normizacija CENELEC**

EN IEC 62881:2018  
Cause and Effect Matrix (IEC 62881:2018)

### **03.200.01 Slobodno vrijeme i turizam općenito**

#### **Međunarodna normizacija ISO**

ISO 21426:2018  
Tourism and related services – Medical spas – Service requirements

### **03.220.01 Prijevoz općenito**

#### **Međunarodna normizacija ISO**

ISO 24102-1:2018  
Intelligent transport systems – ITS station management – Part 1: Local management

ISO 24102-2:2018  
Intelligent transport systems – ITS station management – Part 2: Remote management of ITS-SCUs

ISO 24102-3:2018  
Intelligent transport systems – ITS station management – Part 3: Service access points

ISO 24102-4:2018  
Intelligent transport systems – ITS station management – Part 4: Station-internal management communications

### **03.220.20 Cestovni prijevoz**

#### **Međunarodna normizacija ISO**

ISO 14906:2018  
Electronic fee collection – Application interface definition for dedicated short-range communication

ISO 16407-2:2018  
Electronic fee collection – Evaluation of equipment for conformity to ISO 17575-1 – Part 2: Abstract test suite

ISO 16410-2:2018  
Electronic fee collection – Evaluation of equipment for conformity to ISO 17575-3 – Part 2: Abstract test suite

### **07.030 Fizika. Kemija**

#### **Međunarodna normizacija ISO**

ISO 20298-1:2018  
Fine bubble technology – Sampling and sample preparation for measurement – Part 1: Ultrafine bubble dispersion in water

ISO 20480-2:2018  
Fine bubble technology – General principles for usage and measurement of fine bubbles – Part 2: Categorization of the attributes of fine bubbles

### **07.060 Geologija. Meteorologija. Hidrologija**

#### **Međunarodna normizacija ISO**

ISO 28902-3:2018  
Air quality – Environmental meteorology – Part 3: Ground-based remote sensing of wind by continuous-wave Doppler lidar

### **07.100.20 Mikrobiologija vode**

#### **Europska normizacija CEN**

EN ISO 8199:2018  
Water quality – General requirements and guidance for microbiological examinations by culture (ISO 8199:2018)

### **11.040.01 Medicinska oprema općenito**

#### **Europska normizacija CENELEC**

EN IEC 61340-6-1:2018  
Electrostatics – Part 6-1: Electrostatic control for healthcare – General requirements for facilities (IEC 61340-6-1:2018)

### **11.040.10 Anestezijska, respiracijska i reanimacijska oprema**

#### **Europska normizacija CEN**

EN ISO 80369-1:2018  
Small-bore connectors for liquids and gases in healthcare applications – Part 1: General requirements (ISO 80369-1:2018)

#### **Međunarodna normizacija ISO**

ISO 80369-1:2018  
Small-bore connectors for liquids and gases in healthcare applications – Part 1: General requirements

ISO 81060-2:2018  
Non-invasive sphygmomanometers – Part 2: Clinical investigation of intermittent automated measurement type

### **11.040.20 Transfuzijska, infuzijska i injekcijska oprema**

#### **Europska normizacija CEN**

EN ISO 80369-1:2018  
Small-bore connectors for liquids and gases in healthcare applications – Part 1: General requirements (ISO 80369-1:2018)

#### **Međunarodna normizacija ISO**

ISO 80369-1:2018  
Small-bore connectors for liquids and gases in healthcare applications – Part 1: General requirements

### **11.040.25 Šprice. Igle. Kateteri**

#### **Međunarodna normizacija ISO**

ISO 7886-4:2018  
Sterile hypodermic syringes for single use – Part 4: Syringes with re-use prevention feature

## 11.040.70 Oftalmološka oprema

### Međunarodna normizacija ISO

ISO 11979-1:2018  
Ophthalmic implants – Intraocular lenses – Part 1:  
Vocabulary

## 11.060.10 Stomatološki materijali

### Europska normizacija CEN

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

## 11.080.01 Sterilizacija i dezinfekcija općenito

### Međunarodna normizacija ISO

ISO 11137-1 AMD 2:2018  
Sterilization of health care products – Radiation – Part 1:  
Requirements for development, validation and routine control  
of a sterilization process for medical devices – Amendment 2:  
Revision to 4.3.4 and 11.2

## 11.080.10 Sterilizacijska oprema

### Europska normizacija CEN

EN 13060+A1:2018  
Small steam sterilizers

### Međunarodna normizacija ISO

ISO 15883-4:2018  
Washer-disinfectors – Part 4: Requirements and tests for  
washer-disinfectors employing chemical disinfection for  
thermolabile endoscopes

## 11.080.20 Dezinficijensi i antiseptici

### Europska normizacija CEN

EN 14885:2018  
Chemical disinfectants and antiseptics – Application  
of European Standards for chemical disinfectants and  
antiseptics

CEN/TR 17296:2018  
Chemical disinfectants and antiseptics – Differentiation of  
active and non-active substances

## 11.100.10 In vitro dijagnostički ispitni sustavi

### Međunarodna normizacija ISO

ISO 20184-1:2018  
Molecular in vitro diagnostic examinations – Specifications for  
pre-examination processes for frozen tissue – Part 1: Isolated  
RNA

ISO 20184-2:2018  
Molecular in vitro diagnostic examinations – Specifications for  
pre-examination processes for frozen tissue – Part 2: Isolated  
proteins

## 11.100.99 Ostale norme koje se odnose na laboratorijsku medicinu

### Europska normizacija CEN

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

## 11.120.99 Ostale norme koje se odnose na ljekarništvo

### Međunarodna normizacija ISO

ISO 21976:2018  
Packaging – Tamper verification features for medicinal  
product packaging

## 11.180.99 Ostale norme koje se odnose na pomagala za osobe s invaliditetom

### Međunarodna normizacija ISO

ISO/IEC 29138-1:2018  
Information technology – User interface accessibility – Part 1:  
User accessibility needs

## 11.200 Kontrola rađanja. Mehanička kontracepcijska sredstva

### Međunarodna normizacija ISO

ISO 19671:2018  
Additional lubricants for male natural rubber latex condoms  
– Effect on condom strength

## 13.020.01 Okoliš i zaštita okoliša općenito

### Međunarodna normizacija IEC

IEC 62474:2018  
Material declaration for products of and for the electrotechnical  
industry

## 13.020.60 Životni ciklusi proizvoda

### Međunarodna normizacija ISO

ISO 20294:2018  
Graphic technology – Quantification and communication for  
calculating the carbon footprint of e-media

## 13.040.30 Atmosfera u radnome prostoru

### Europska normizacija CEN

EN 17058:2018  
Workplace exposure – Assessment of exposure by inhalation  
of nano-objects and their aggregates and agglomerates

### 13.060.01 Kvaliteta vode općenito

#### Međunarodna normizacija ISO

ISO 20468-1:2018  
Guidelines for performance evaluation of treatment technologies for water reuse systems – Part 1: General

ISO 20469:2018  
Guidelines for water quality grade classification for water reuse

### 13.060.30 Kanalizacijske vode

#### Europska normizacija CEN

CEN/TR 15897:2018  
Submerged Membrane Bioreactor (MBR) technology

### 13.060.60 Ispitivanje fizikalnih svojstava vode

#### Međunarodna normizacija ISO

ISO 9697:2018  
Water quality – Gross beta activity – Test method using thick source

ISO 11704:2018  
Water quality – Gross alpha and gross beta activity – Test method using liquid scintillation counting

### 13.080.10 Kemijske značajke tla

#### Europska normizacija CEN

EN ISO 23161:2018  
Soil quality – Determination of selected organotin compounds – Gas-chromatographic method (ISO 23161:2018)

### 13.080.20 Fizikalna svojstva tla

#### Međunarodna normizacija ISO

ISO 17892-10:2018  
Geotechnical investigation and testing – Laboratory testing of soil – Part 10: Direct shear tests

### 13.180 Ergonomija

#### Međunarodna normizacija ISO

ISO 20685-1:2018  
3-D scanning methodologies for internationally compatible anthropometric databases – Part 1: Evaluation protocol for body dimensions extracted from 3-D body scans

### 13.220.40 Zapaljivost i ponašanje materijala i proizvoda pri izgaranju

#### Europska normizacija CENELEC

EN IEC 60332-3-10/AC:2018  
Tests on electric and optical fibre cables under fire conditions – Part 3-10: Test for vertical flame spread of vertically-mounted bunched wires or cables – Apparatus (IEC 60332-3-10:2018/COR1:2018)

### 13.280 Zaštita od zračenja

#### Međunarodna normizacija ISO

ISO 9697:2018  
Water quality – Gross beta activity – Test method using thick source

### 13.320 Alarmni sustavi i sustavi uzbunjivanja

#### Međunarodna normizacija IEC

IEC 60364-5-56:2018  
Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services

### 13.340.10 Zaštitna odjeća

#### Europska normizacija CEN

CEN/TR 14560:2018  
Guidance for selection, use, care and maintenance of protective clothing against heat and flame

### 13.340.20 Zaštitna oprema za glavu

#### Europska normizacija CEN

EN ISO 4869-1:2018  
Acoustics – Hearing protectors – Part 1: Subjective method for the measurement of sound attenuation (ISO 4869-1:2018)

EN ISO 4869-2:2018  
Acoustics – Hearing protectors – Part 2: Estimation of effective A-weighted sound pressure levels when hearing protectors are worn (ISO 4869-2:2018)

### 13.340.40 Zaštita ruku i šaka

#### Međunarodna normizacija ISO

ISO 18639-4:2018  
PPE ensembles for firefighters undertaking specific rescue activities – Part 4: Gloves

### 13.340.50 Zaštita nogu i stopala

#### Europska normizacija CEN

EN 13832-2:2018  
Footwear protecting against chemicals – Part 2: Requirements for limited contact with chemicals

EN 13832-3:2018  
Footwear protecting against chemicals – Part 3: Requirements for prolonged contact with chemicals

### 13.340.60 Zaštita od pada i klizanja

#### Europska normizacija CEN

EN 358:2018  
Personal protective equipment for work positioning and prevention of falls from a height – Belts and lanyards for work positioning or restraint



## 17.120.20 Protok u otvorenim kanalima

Međunarodna normizacija  
ISO

ISO 1070:2018  
Hydrometry – Slope-area method

## 17.140.20 Buka koju proizvode strojevi i oprema

Međunarodna normizacija  
ISO

ISO 7779:2018  
Acoustics – Measurement of airborne noise emitted by information technology and telecommunications equipment

## 17.160 Vibracije, udari i mjerenja vibracija

Međunarodna normizacija  
ISO

ISO 16063-44:2018  
Methods for the calibration of vibration and shock transducers – Part 44: Calibration of field vibration calibrators

## 17.200.10 Toplina. Kalorimetrija

Europska normizacija  
CEN

EN 1434-1+A1:2018  
Thermal energy meters – Part 1: General requirements

EN 1434-2+A1:2018  
Thermal energy meters – Part 2: Constructional requirements

EN 1434-4+A1:2018  
Thermal energy meters – Part 4: Pattern approval tests

## 17.220.20 Mjerenje električnih i magnetskih veličina

Europska normizacija  
CENELEC

EN IEC 61340-6-1:2018  
Electrostatics – Part 6-1: Electrostatic control for healthcare – General requirements for facilities (IEC 61340-6-1:2018)

Međunarodna normizacija  
IEC

IEC 60404-6 Corrigendum 1:2018  
Magnetic materials – Part 6: Methods of measurement of the magnetic properties of magnetically soft metallic and powder materials at frequencies in the range 20 Hz to 100 kHz by the use of ring specimens; Corrigendum 1

## 17.220.99 Ostale norme koje se odnose na elektricitet i magnetizam

Međunarodna normizacija  
IEC

IEC/TR 61340-5-5:2018  
Electrostatics – Part 5-5: Protection of electronic devices from electrostatic phenomena – Packaging systems used in electronic manufacturing

## 17.240 Mjerenja zračenja

Međunarodna normizacija  
ISO

ISO 11704:2018  
Water quality – Gross alpha and gross beta activity – Test method using liquid scintillation counting

## 19.040 Ispitivanje utjecaja okoliša

Međunarodna normizacija  
IEC

IEC 60721-3-2 Corrigendum 1:2018  
Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Section 2: Transportation; Corrigendum 1

## 23.020.30 Tlačne posude, cilindrični plinski spremnici

Europska normizacija  
CEN

EN 13445-3:2014/A5:2018  
Unfired pressure vessels – Part 3: Design

EN 13445-6:2014/A2:2018  
Unfired pressure vessels – Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron

## 23.020.35 Plinske boce

Međunarodna normizacija  
ISO

ISO 21172-1 AMD 1:2018  
Gas cylinders – Welded steel pressure drums up to 3000 litres capacity for the transport of gases – Design and construction – Part 1: Capacities up to 1000 litres; Amendment 1

## 23.040.20 Plastične cijevi

Međunarodna normizacija  
ISO

ISO 13257:2018  
Thermoplastics piping systems for non-pressure applications – Test method for resistance to elevated temperature cycling

## 23.100.01 Sustavi za hidraulički i pneumatski prijenos energije općenito

Međunarodna normizacija  
ISO

ISO 18582-2:2018  
Fluid power – Specification of reference dictionary – Part 2: Definitions of classes and properties of pneumatics

## 23.100.60 Filtri, brtve i onečišćenje fluida

Međunarodna normizacija  
ISO

ISO 16589-1 AMD 1:2018  
Rotary shaft lip-type seals incorporating thermoplastic sealing elements – Part 1: Nominal dimensions and tolerances; Amendment 1

## 23.120 Ventilatori. Klimatizacijski uređaji

### Međunarodna normizacija IEC

IEC 60665:2018  
A.C. ventilating fans and regulators for household and similar purposes – Methods for measuring performance

## 25.040.40 Mjerenje i upravljanje u industrijskim procesima

### Europska normizacija CENELEC

EN IEC 61918:2018  
Industrial communication networks – Installation of communication networks in industrial premises (IEC 61918:2018)

### Međunarodna normizacija ISO

ISO 8000-2:2018  
Data quality – Part 2: Vocabulary

ISO 16739-1:2018  
Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries – Part 1: Data schema

## 25.140.01 Ručni alati općenito

### Međunarodna normizacija ISO

ISO/TR 20571:2018  
Dynamload – Design and construction – Use and maintenance

## 25.140.10 Pneumatski alati

### Europska normizacija CEN

EN ISO 11148-13:2018  
Hand-held non-electric power tools – Safety requirements – Part 13: Fastener driving tools (ISO 11148-13:2017)

## 25.160.01 Zavarivanje, meko i tvrdo lemljenje općenito

### Europska normizacija CEN

EN ISO 17279-1:2018  
Welding – Micro joining of 2nd generation high temperature superconductors – Part 1: General requirements for the procedure (ISO 17279-1:2018)

EN ISO 17279-2:2018  
Welding – Micro joining of 2nd generation high temperature superconductors – Part 2: Qualification for welding and testing personnel (ISO 17279-2:2018)

## 25.160.10 Procesi zavarivanja

### Europska normizacija CEN

EN 16602-70-39:2018  
Space product assurance – Welding of metallic materials for flight hardware

## 25.160.30 Oprema za zavarivanje

### Europska normizacija CENELEC

EN IEC 60974-14:2018  
Arc welding equipment – Part 14: Calibration, validation and consistency testing (IEC 60974-14:2018)

## 25.160.40 Zavareni spojevi i zavari

### Europska normizacija CEN

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

## 25.220.10 Priprema površina

### Međunarodna normizacija ISO

ISO 8504-3:2018  
Preparation of steel substrates before application of paints and related products – Surface preparation methods – Part 3: Hand- and power-tool cleaning

## 25.220.20 Površinska obrada

### Međunarodna normizacija ISO

ISO 8994:2018  
Anodizing of aluminium and its alloys – Rating system for the evaluation of pitting corrosion – Grid method

## 25.220.40 Metalne prevlake

### Europska normizacija CEN

EN 13144:2018  
Metallic and other inorganic coatings – Method for quantitative measurement of adhesion by tensile test

### Međunarodna normizacija ISO

ISO 6158:2018  
Metallic and other inorganic coatings – Electrodeposited coatings of chromium for engineering purposes

## 25.220.99 Ostale obrade i prevlake

### Europska normizacija CEN

EN 13144:2018  
Metallic and other inorganic coatings – Method for quantitative measurement of adhesion by tensile test

## 27.015 Energetska učinkovitost. Očuvanje energije općenito

### Europska normizacija CENELEC

EN 50597:2018  
Energy consumption of vending machines

## 27.060.20 Plinski plamenici

Europska normizacija  
CEN

EN 437:2018  
Test gases – Test pressures – Appliance categories

## 27.075 Tehnologije vodika

Europska normizacija  
CEN

EN 17127:2018  
Outdoor hydrogen refuelling points dispensing gaseous hydrogen and incorporating filling protocols

## 27.080 Dizalice topline

Europska normizacija  
CEN

EN 13136+A1:2018  
Refrigerating systems and heat pumps – Pressure relief devices and their associated piping – Methods for calculation

## 27.120.10 Reaktorska tehnika

Međunarodna normizacija  
IEC

IEC 60964:2018  
Nuclear power plants – Control rooms – Design

## 27.120.20 Nuklearne elektrane. Sigurnost

Međunarodna normizacija  
IEC

IEC 60964:2018  
Nuclear power plants – Control rooms – Design

## 27.160 Solarna energetika

Međunarodna normizacija  
ISO

ISO 9060:2018  
Solar energy – Specification and classification of instruments for measuring hemispherical solar and direct solar radiation

## 27.200 Rashladna tehnologija (tehnika)

Europska normizacija  
CEN

EN 13136+A1:2018  
Refrigerating systems and heat pumps – Pressure relief devices and their associated piping – Methods for calculation

## 29.020 Elektrotehnika općenito

Međunarodna normizacija  
IEC

IEC/TR 61340-5-5:2018  
Electrostatics – Part 5-5: Protection of electronic devices from electrostatic phenomena – Packaging systems used in electronic manufacturing

IEC 62474:2018  
Material declaration for products of and for the electrotechnical industry

IEC Guide 116:2018  
Guidelines for safety related risk assessment and risk reduction for low voltage equipment

## 29.030 Magnetni materijali

Međunarodna normizacija  
IEC

IEC 60404-6 Corrigendum 1:2018  
Magnetic materials – Part 6: Methods of measurement of the magnetic properties of magnetically soft metallic and powder materials at frequencies in the range 20 Hz to 100 kHz by the use of ring specimens; Corrigendum 1

IEC 60404-9:2018  
Magnetic materials – Part 9: Methods of determination of the geometrical characteristics of electrical steel strip and sheet

IEC 60404-16 Corrigendum 1:2018  
Magnetic materials – Part 16: Methods of measurement of the magnetic properties of Fe-based amorphous strip by means of a single sheet tester; Corrigendum 1

## 29.040.10 Izolacijska ulja

Europska normizacija  
CENELEC

EN IEC 62961:2018  
Insulating liquids – Test methods for the determination of interfacial tension of insulating liquids – Determination with the ring method (IEC 62961:2018)

## 29.060.20 Kabeli

Europska normizacija  
CENELEC

EN IEC 60332-3-10:2018/AC:2018  
Tests on electric and optical fibre cables under fire conditions – Part 3-10: Test for vertical flame spread of vertically-mounted bunched wires or cables – Apparatus (IEC 60332-3-10:2018/COR1:2018)

## 29.120.40 Sklopke

Europska normizacija  
CENELEC

EN 60669-1:2018/AC:2018  
Switches for household and similar fixed electrical installations – Part 1: General requirements

Međunarodna normizacija  
IEC

IEC 61058-2-5:2018  
Switches for appliances – Part 2-5: Particular requirements for change-over selectors

IEC 61058-2-6:2018  
Switches for appliances – Part 2-6: Particular requirements for switches used in electric motor-operated hand-held tools, transportable tools and lawn and garden machinery

## 29.130.10 Visokonaponski rasklopni i upravljački uređaji

Europska normizacija  
CENELEC

EN 50064:2018  
High-voltage switchgear and controlgear – Gas-filled wrought aluminium and aluminium alloy enclosures

EN 50068:2018  
High-Voltage Switchgear and Controlgear – Gas-filled wrought steel enclosures

## 29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem

### Europska normizacija CENELEC

- EN 61167:2018/A1:2018  
Metal halide lamps – Performance specification (IEC 61167:2018/A1:2018)
- EN 62386-102:2014/A1:2018  
Digital addressable lighting interface – Part 102: General requirements – Control gear (IEC 62386-102:2014/A1:2018)
- EN 62386-103:2014/A1:2018  
Digital addressable lighting interface – Part 103: General requirements – Control devices (IEC 62386-103:2014/A1:2018)

## 29.220.20 Kiseli sekundarni članci i baterije

### Europska normizacija CENELEC

- EN 50342-1:2015/A1:2018  
Lead-acid starter batteries – Part 1: General requirements and methods of test
- EN 50342-6:2015/A1:2018  
Lead-acid starter batteries – Part 6: Batteries for Micro-Cycle Applications

### Međunarodna normizacija IEC

- IEC 60095-1:2018  
Lead-acid starter batteries – Part 1: General requirements and methods of test

## 29.240.01 Mreže za prijenos i razdiobu električne energije općenito

### Međunarodna normizacija IEC

- IEC/TR 63191:2018  
Demand side power quality management

## 31.060.99 Ostali kondenzatori

### Europska normizacija CENELEC

- EN IEC 60358-4:2018  
Coupling capacitors and capacitor dividers – Part 4: DC and AC single-phase capacitor dividers (IEC 60358-4:2018)

## 31.080.99 Ostale poluvodičke naprave

### Međunarodna normizacija IEC

- IEC 62951-3:2018  
Semiconductor devices – Flexible and stretchable semiconductor devices – Part 3: Evaluation of thin film transistor characteristics on flexible substrates under bulging

## 31.120 Elektronički uređaji za prikazivanje

### Međunarodna normizacija IEC

- IEC 62679-2:2018  
Electronic paper displays – Part 2: Essential ratings and characteristics
- IEC 62908-12-10 Corrigendum 1:2018  
Touch and interactive displays – Part 12-10: Measurement methods of touch displays – Touch and electrical performance; Corrigendum 1

- IEC/TR 62977-2-4:2018  
Electronic displays – Part 2-4: Transparent displays – Overview of application scenarios

- IEC/TR 62977-2-5:2018  
Electronic display devices – Part 2-5: Transparent displays – Measurements of optical characteristics

## 31.180 Tiskani krugovi i pločice

### Međunarodna normizacija IEC

- IEC 62899-201 AMD 1:2018  
Printed electronics – Part 201: Materials – Substrates; Amendment 1
- IEC 62899-201 Edition 1.1:2018  
Printed electronics – Part 201: Materials – Substrates

## 31.200 Integrirani krugovi. Mikroelektronika

### Međunarodna normizacija IEC

- IEC 63011-1:2018  
Integrated circuits – Three dimensional integrated circuits – Part 1: Terminology
- IEC 63011-2:2018  
Integrated circuits – Three dimensional integrated circuits – Part 2: Alignment of stacked dies having fine pitch interconnect
- IEC 63011-3:2018  
Integrated circuits – Three dimensional integrated circuits – Part 3: Model and measurement conditions of through-silicon via

## 31.220.10 Utikačke i utičničke naprave. Konektori

### Europska normizacija CENELEC

- EN IEC 60512-1:2018  
Connectors for electrical and electronic equipment – Tests and measurements – Part 1: Generic specification (IEC 60512-1:2018)

## 31.260 Optoelektronika. Laserska oprema

### Međunarodna normizacija ISO

- ISO 11145:2018  
Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols
- ISO 13694:2018  
Optics and photonics – Lasers and laser-related equipment – Test methods for laser beam power (energy) density distribution

### Međunarodna normizacija IEC

- IEC 62679-2:2018  
Electronic paper displays – Part 2: Essential ratings and characteristics
- IEC/TR 62977-2-4:2018  
Electronic displays – Part 2-4: Transparent displays – Overview of application scenarios
- IEC/TR 62977-2-5:2018  
Electronic display devices – Part 2-5: Transparent displays – Measurements of optical characteristics

### **33.060.30 Radioreleji i nepomični satelitski komunikacijski sustavi**

#### **Međunarodna normizacija IEC**

IEC 63135:2018  
Maritime navigation and radiocommunication equipment and systems – Automatic identification systems (AIS) – SAR airborne equipment – Operational and performance requirements, methods of test and required test results

### **33.060.40 Kabelski distribucijski sustavi**

#### **Europska normizacija CENELEC**

EN 60728-11:2017/A11:2018  
Cable networks for television signals, sound signals and interactive services – Part 11: Safety

#### **Međunarodna normizacija IEC**

IEC 60728-113 Corrigendum 1:2018  
Cable networks for television signals, sound signals and interactive services – Part 113: Optical systems for broadcast signal transmissions loaded with digital channels only; Corrigendum 1

### **33.100.20 Otpornost**

#### **Europska normizacija CENELEC**

EN IEC 61326-3-2:2018  
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 (IEC 61326-3-2:2017)

### **33.160.01 Audiosustavi, videosustavi i audiovizualni sustavi općenito**

#### **Međunarodna normizacija IEC**

IEC 60268-21:2018  
Sound system equipment – Part 21: Acoustical (output-based) measurements

### **33.160.30 Audiosustavi**

#### **Međunarodna normizacija IEC**

IEC 61937-11 AMD 1:2018  
Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 11: MPEG-4 AAC and its extensions in LATM/LOAS; Amendment 1

IEC 61937-11 Edition 1.1:2018  
Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 11: MPEG-4 AAC and its extensions in LATM/LOAS

### **33.160.40 Videosustavi**

#### **Međunarodna normizacija IEC**

IEC 63033-2:2018  
Car multimedia systems and equipment – Drive monitoring system – Part 2: Recording methods of the drive monitoring system

### **33.160.50 Pribor**

#### **Europska normizacija CENELEC**

EN IEC 60268-4:2018  
Sound system equipment – Part 4: Microphones (IEC 60268-4:2018)

### **33.180.01 Svjetlovodni sustavi općenito**

#### **Europska normizacija CENELEC**

EN IEC 61918:2018  
Industrial communication networks – Installation of communication networks in industrial premises (IEC 61918:2018)

### **33.180.10 Svjetlovodna vlakna i kabeli**

#### **Europska normizacija CENELEC**

EN IEC 60332-3-10:2018/AC:2018  
Tests on electric and optical fibre cables under fire conditions – Part 3-10: Test for vertical flame spread of vertically-mounted bunched wires or cables – Apparatus (IEC 60332-3-10:2018/COR1:2018)

#### **Međunarodna normizacija IEC**

IEC 60793-1-32:2018  
Optical fibres – Part 1-32: Measurement methods and test procedures – Coating strippability

### **33.180.20 Svjetlovodne vezne naprave**

#### **Međunarodna normizacija IEC**

IEC 60869-1:2018  
Fibre optic interconnecting devices and passive components – Fibre optic passive power control devices – Part 1: Generic specification

### **33.180.99 Ostala svjetlovodna oprema**

#### **Međunarodna normizacija IEC**

IEC 62149-10:2018  
Fibre optic active components and devices – Performance standards – Part 10: Radio-over-fibre (RoF) transceivers for mobile fronthaul

### **33.200 Daljinsko upravljanje. Daljinsko mjerenje**

#### **Međunarodna normizacija IEC**

IEC 62351-4:2018  
Power systems management and associated information exchange – Data and communications security – Part 4: Profiles including MMS and derivatives

IEC 62746-10-1:2018  
Systems interface between customer energy management system and the power management system – Part 10-1: Open automated demand response

IEC/TR 63191:2018  
Demand side power quality management

## 35.020 Informacijska tehnologija (IT) općenito

### Međunarodna normizacija ISO

ISO 7779:2018  
Acoustics – Measurement of airborne noise emitted by information technology and telecommunications equipment

## 35.030 Informatička sigurnost

### Međunarodna normizacija ISO

ISO/IEC 10118-3:2018  
IT Security techniques – Hash-functions – Part 3: Dedicated hash-functions

ISO/IEC 14888-3:2018  
IT Security techniques – Digital signatures with appendix – Part 3: Discrete logarithm based mechanisms

ISO/IEC 20889:2018  
Privacy enhancing data de-identification terminology and classification of techniques

ISO/IEC 21878:2018  
Information technology – Security techniques – Security guidelines for design and implementation of virtualized servers

### IEC

IEC 62351-4:2018  
Power systems management and associated information exchange – Data and communications security – Part 4: Profiles including MMS and derivatives

## 35.040.40 Kodiranje audioinformacija, videoinformacija, multimedijjskih i hipermedijjskih informacija

### Međunarodna normizacija ISO

ISO/IEC 14496-5 AMD 43:2018  
Information technology – Coding of audio-visual objects – Part 5: Reference software – Amendment 43: New levels of ALS simple profile, SBR enhancements

ISO/IEC 14496-14:2018  
Information technology – Coding of audio-visual objects – Part 14: MP4 file format

ISO/IEC 14496-30:2018  
Information technology – Coding of audio-visual objects – Part 30: Timed text and other visual overlays in ISO base media file format

### IEC

IEC 61937-11 AMD 1:2018  
Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 11: MPEG-4 AAC and its extensions in LATM/LOAS; Amendment 1

IEC 61937-11 Edition 1.1:2018  
Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 11: MPEG-4 AAC and its extensions in LATM/LOAS

## 35.040.50 Tehnike automatskog prepoznavanja i preuzimanja podataka

### Međunarodna normizacija ISO

ISO/IEC 29167-22:2018  
Information technology – Automatic identification and data capture techniques – Part 22: Crypto suite SPECK security services for air interface communications

## 35.080 Softver (programska podrška)

### Europska normizacija CEN

EN 16602-80:2018  
Space product assurance – Software product assurance

### Međunarodna normizacija ISO

ISO/IEC/IEEE 24748-1:2018  
Systems and software engineering – Life cycle management – Part 1: Guidelines for life cycle management

ISO/IEC 26553:2018  
Information technology – Software and systems engineering – Tools and methods for product line realization

ISO/IEC 26554:2018  
Information technology – Software and systems engineering – Tools and methods for product line testing

ISO/IEC 26556:2018  
Information technology – Software and systems engineering – Tools and methods for product line organizational management

## 35.110 Umrežavanje

### Europska normizacija CENELEC

EN IEC 61918:2018  
Industrial communication networks – Installation of communication networks in industrial premises (IEC 61918:2018)

### Međunarodna normizacija ISO

ISO/IEC/IEEE 8802-21 Technical Corrigendum 1:2018  
Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 21: Media independent services framework; Technical Corrigendum 1: Clarification of parameter definition in group session key derivation

## 35.200 Sučelna i spojna oprema

### Međunarodna normizacija ISO

ISO/IEC 14776-263:2018  
Information technology – Small computer system interface (SCSI) – Part 263: SAS protocol layer – 3 (SPL-3)

ISO/IEC 30118-1:2018  
Information technology – Open Connectivity Foundation (OCF) Specification – Part 1: Core specification

ISO/IEC 30118-2:2018  
Information technology – Open Connectivity Foundation (OCF) Specification – Part 2: Security specification

ISO/IEC 30118-3:2018  
Information technology – Open Connectivity Foundation (OCF) Specification – Part 3: Bridging specification

ISO/IEC 30118-4:2018  
Information technology – Open Connectivity Foundation (OCF) Specification – Part 4: Resource type specification

ISO/IEC 30118-5:2018  
Information technology – Open Connectivity Foundation (OCF) Specification – Part 5: Smart home device specification

ISO/IEC 30118-6:2018  
Information technology – Open Connectivity Foundation (OCF) Specification – Part 6: Resource to AllJoyn interface mapping specification

### **35.240.30 Primjene informacijske tehnologije u obavješćivanju, dokumentaciji i izdavaštvu**

#### **Međunarodna normizacija ISO**

ISO/TR 22299:2018  
Document management – Digital file format recommendations for long-term storage

### **35.240.50 Primjene informacijske tehnologije u industriji**

#### **Međunarodna normizacija IEC**

IEC 61970-453 AMD 1:2018  
Energy management system application program interface (EMS-API) – Part 453: Diagram layout profile; Amendment 1

IEC 61970-453 Edition 2.1:2018  
Energy management system application program interface (EMS-API) – Part 453: Diagram layout profile

IEC 62351-4:2018  
Power systems management and associated information exchange – Data and communications security – Part 4: Profiles including MMS and derivatives

IEC 62746-10-1:2018  
Systems interface between customer energy management system and the power management system – Part 10-1: Open automated demand response

### **35.240.60 Primjene informacijske tehnologije u prijevozu i trgovini**

#### **Europska normizacija CENELEC**

EN IEC 61375-2-6:2018  
Electronic railway equipment – Train communication network (TCN) – Part 2-6: On-board to ground communication (IEC 61375-2-6:2018)

#### **Međunarodna normizacija ISO**

ISO 14906:2018  
Electronic fee collection – Application interface definition for dedicated short-range communication

ISO 16407-2:2018  
Electronic fee collection – Evaluation of equipment for conformity to ISO 17575-1 – Part 2: Abstract test suite

ISO 16410-2:2018  
Electronic fee collection – Evaluation of equipment for conformity to ISO 17575-3 – Part 2: Abstract test suite

ISO 24102-1:2018  
Intelligent transport systems – ITS station management – Part 1: Local management

ISO 24102-2:2018  
Intelligent transport systems – ITS station management – Part 2: Remote management of ITS-SCUs

ISO 24102-3:2018  
Intelligent transport systems – ITS station management – Part 3: Service access points

ISO 24102-4:2018  
Intelligent transport systems – ITS station management – Part 4: Station-internal management communications

### **35.240.80 Primjene informacijske tehnologije u tehnologiji zaštite zdravlja**

#### **Međunarodna normizacija ISO**

ISO/IEC 29138-1:2018  
Information technology – User interface accessibility – Part 1: User accessibility needs

### **35.240.99 Primjene IT-a u ostalim područjima**

#### **Europska normizacija CENELEC**

EN 62386-102:2014/A1:2018  
Digital addressable lighting interface – Part 102: General requirements – Control gear (IEC 62386-102:2014/A1:2018)

EN 62386-103:2014/A1:2018  
Digital addressable lighting interface – Part 103: General requirements – Control devices (IEC 62386-103:2014/A1:2018)

#### **Međunarodna normizacija ISO**

ISO 11783-3:2018  
Tractors and machinery for agriculture and forestry – Serial control and communications data network – Part 3: Data link layer

### **37.020 Optička oprema**

#### **Međunarodna normizacija ISO**

ISO 9211-5:2018  
Optics and photonics – Optical coatings – Part 5: Minimum requirements for antireflecting coatings

### **37.040.99 Ostale norme koje se odnose na fotografiju**

#### **Međunarodna normizacija ISO**

ISO 18948:2018  
Imaging materials – Photo books – Test methods for permanence and durability

### **37.100.01 Grafička tehnologija općenito**

#### **Međunarodna normizacija ISO**

ISO 20294:2018  
Graphic technology – Quantification and communication for calculating the carbon footprint of e-media

### **37.100.10 Oprema za umnožavanje**

#### **Međunarodna normizacija ISO**

ISO/IEC 29112:2018  
Information technology – Office equipment – Test pages and methods for measuring monochrome printer resolution

### **37.100.99 Ostale norme koje se odnose na grafičku tehnologiju**

#### **Međunarodna normizacija ISO**

ISO/TR 22299:2018  
Document management – Digital file format recommendations for long-term storage

### 39.040.10 Ručni i džepni satovi

Međunarodna normizacija  
ISO

ISO 10553:2018  
Horology – Procedure for evaluating the accuracy of quartz watches

### 43.020 Cestovna vozila općenito

Međunarodna normizacija  
ISO

ISO/TR 21974-1:2018  
Naturalistic driving studies – Vocabulary – Part 1: Safety critical events

### 43.040.10 Električna i elektronička oprema

Međunarodna normizacija  
IEC

IEC 60095-1:2018  
Lead-acid starter batteries – Part 1: General requirements and methods of test

### 43.040.15 Informatika vozila. Računalni sustavi u vozilu

Međunarodna normizacija  
IEC

IEC 63033-2:2018  
Car multimedia systems and equipment – Drive monitoring system – Part 2: Recording methods of the drive monitoring system

### 43.040.50 Prijenosi i ovjesi

Međunarodna normizacija  
ISO

ISO 11425:2018  
Rubber hoses and hose assemblies for automobile power-steering systems – Specification

### 45.060.01 Željeznička tračnička vozila općenito

Europska normizacija  
CEN

EN 14531-1+A1:2018  
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

### 47.020.30 Cjevovodni sustavi

Međunarodna normizacija  
ISO

ISO 21157:2018  
Ships and marine technology – Ball valves for use in low temperature applications – Design and testing requirements

ISO 21159:2018  
Ships and marine technology – Butterfly valves for use in low temperature applications – Design and testing requirements

### 47.020.60 Električna oprema brodova i pomorskih konstrukcija

Međunarodna normizacija  
IEC

IEC 60092-350 Corrigendum 1:2018  
Electrical installations in ships – Part 350: General construction and test methods of power, control and instrumentation cables for shipboard and offshore applications; Corrigendum 1

### 47.020.70 Oprema za navigaciju i upravljanje

Međunarodna normizacija  
IEC

IEC 63135:2018  
Maritime navigation and radiocommunication equipment and systems – Automatic identification systems (AIS) – SAR airborne equipment – Operational and performance requirements, methods of test and required test results

### 49.025.20 Aluminij

Europska normizacija  
CEN

EN 2709:2018  
Aerospace series – Aluminium alloy 2024- – T3510 – Bar and sections –  $1,2 \text{ mm} \leq (a \text{ or } D) \leq 150 \text{ mm}$  – With peripheral coarse grain control

EN 2716:2018  
Aerospace series – Test method – Determination of susceptibility to intergranular corrosion – Wrought aluminium alloy products AL-P2XXX-series, AL-P7XXX-series and aluminium-lithium alloys

EN 2726:2018  
Aerospace series – Aluminium alloy AL-C42201 – T6 – Sand castings –  $a \leq 20 \text{ mm}$

EN 2728:2018  
Aerospace series – Aluminium alloy AL-C42101 – T6 – Sand casting –  $a \leq 20 \text{ mm}$

### 49.060 Zrakoplovna električna oprema i sustavi

Europska normizacija  
CEN

EN 3745-506:2018  
Aerospace series – Fibres and cables, optical, aircraft use – Test methods – Part 506: Impact resistance

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  $-65 \text{ }^\circ\text{C}$  and  $135 \text{ }^\circ\text{C}$  – Dual extruded wall for open applications – UV laser printable – Product standard

Međunarodna normizacija  
ISO

ISO 20949:2018  
Aircraft – Smart contactor – General requirements

### 49.090 Oprema i instrumenti u zrakoplovu

Europska normizacija  
CEN

EN 3745-411:2018  
Aerospace series – Fibres and cables, optical, aircraft use – Test methods – Part 411: Resistance to fluids

EN 3745-506:2018  
Aerospace series – Fibres and cables, optical, aircraft use – Test methods – Part 506: Impact resistance



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

EN 4641-200:2018  
Aerospace series – Cables, optical, 125 µm diameter cladding  
– Part 200: Semi-loose structure 9/125 µm GI fibre nominal  
0,9 mm outside diameter – Product standard

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

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

## 49.095 Oprema za putnike i kabine

### Europska normizacija CEN

EN 4726:2018  
Aerospace series – Acceptance parameters of aesthetical  
variations for all visible equipment installed in aircraft cabins  
under all contractual variations

EN 4730:2018  
Aerospace series – Anthropometric dimensioning of aircraft seats

## 49.140 Svemirski sustavi i operacije

### Europska normizacija CEN

EN 16602-70-39:2018  
Space product assurance – Welding of metallic materials for  
flight hardware

EN 16602-80:2018  
Space product assurance – Software product assurance

EN 16603-10-02:2018  
Space engineering – Verification

## 53.060 Industrijski prijevozni sustavi

### Europska normizacija CEN

EN 16842-6:2018  
Powered industrial trucks – Visibility – Test methods and  
verification – Part 6: Sit-on counterbalance trucks and rough  
terrain masted trucks greater than 10000 kg capacity

EN 16842-7:2018  
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

### Međunarodna normizacija ISO

ISO 22915-4:2018  
Industrial trucks – Verification of stability – Part 4: Pallet  
stackers, double stackers and order-picking trucks with  
operator position elevating up to and including 1 200 mm lift  
height

## 55.020 Ambalaža, pakiranje i distribucija robe općenito

### Međunarodna normizacija ISO

ISO 21976:2018  
Packaging – Tamper verification features for medicinal  
product packaging

## 55.180.10 Kontejneri opće namjene

### Međunarodna normizacija ISO

ISO 1496-2:2018  
Series 1 freight containers – Specification and testing  
– Part 2: Thermal containers

ISO 1496-5:2018  
Series 1 freight containers – Specification and testing  
– Part 5: Platform and platform-based containers

## 55.230 Strojevi za distribuciju i prodaju

### Europska normizacija CENELEC

EN 50597:2018  
Energy consumption of vending machines

## 59.080.01 Tekstilni općenito

### Europska normizacija CEN

EN 17137:2018  
Textiles – Determination of the content of compounds based  
on chlorobenzenes and chlorotoluenes

### Međunarodna normizacija ISO

ISO 21046:2018  
Silk – Test method for determining the size of silk yarns

## 59.080.20 Prediva

### Međunarodna normizacija ISO

ISO 10290:2018  
Textiles – Cotton yarns – Basis for specification

## 59.080.30 Tekstilni proizvodi

### Međunarodna normizacija ISO

ISO 20932-1:2018  
Textiles – Determination of the elasticity of fabrics – Part 1:  
Strip tests

ISO 20932-2:2018  
Textiles – Determination of the elasticity of fabrics – Part 2:  
Multiaxial tests

ISO 20932-3:2018  
Textiles – Determination of the elasticity of fabrics – Part 3:  
Narrow fabrics

## 59.080.40 Naslojeni plošni tekstil

### Europska normizacija CEN

EN 17117-1:2018  
Rubber or plastics-coated fabrics – Mechanical test methods  
under biaxial stress states – Part 1: Tensile stiffness  
properties

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

## 59.080.70 Geotekstili

### Europska normizacija CEN

EN 17096:2018  
Geosynthetics – Test method for the determination of the strain hardening modulus of PE-HD geosynthetic barriers

## 59.140.30 Koža i krzno

### Europska normizacija CEN

EN ISO 23702-1:2018  
Leather – Organic fluorine – Part 1: Determination of non-volatile compounds by extraction method using liquid chromatography/tandem mass spectrometry detector (LC-MS/MS) (ISO 23702-1:2018)

### Međunarodna normizacija ISO

ISO 11457:2018  
Leather – Grading of wet blue goat and sheep skins based on defects

## 61.020 Odjeća

### Međunarodna normizacija ISO

ISO 8559-3:2018  
Size designation of clothes – Part 3: Methodology for the creation of body measurement tables and intervals

## 65.040.10 Nastambe, instalacije i oprema za stoku

### Međunarodna normizacija IEC

IEC 60335-2-76 Corrigendum 1:2018  
Household and similar electrical appliances – Safety – Part 2-76: Particular requirements for electric fence energizers; Corrigendum 1

## 65.060.01 Poljoprivredni strojevi i oprema općenito

### Međunarodna normizacija ISO

ISO 5289:2018  
Agricultural machinery – Endless hexagonal belts and groove sections of corresponding pulleys

ISO 11783-3:2018  
Tractors and machinery for agriculture and forestry – Serial control and communications data network – Part 3: Data link layer

ISO 18497:2018  
Agricultural machinery and tractors – Safety of highly automated agricultural machines – Principles for design

## 65.060.10 Poljoprivredni traktori i priključna vozila

### Međunarodna normizacija ISO

ISO 8759-1:2018  
Agricultural tractors – Front-mounted equipment – Part 1: Power take-off: Safety requirements and clearance zone around PTO

ISO 8759-3:2018  
Agricultural tractors – Front-mounted equipment – Part 3: Power take-off: General specifications and location

ISO 8759-4:2018  
Agricultural tractors – Front-mounted equipment – Part 4: Three-point linkage

## 65.160 Duhan, duhanski proizvodi i odgovarajuća oprema

### Međunarodna normizacija ISO

ISO 21160:2018  
Cigarettes – Determination of selected carbonyls in the mainstream smoke of cigarettes – Method using high performance liquid chromatography

ISO 21330:2018  
Cigarettes – Determination of selected volatile organic compounds in the mainstream smoke of cigarettes – Method using GC/MS

## 67.100.10 Mlijeko i obrađeni mliječni proizvodi

### Međunarodna normizacija ISO

ISO 15151:2018  
Milk, milk products, infant formula and adult nutritionals – Determination of minerals and trace elements – Inductively coupled plasma atomic emission spectrometry (ICP-AES) method

ISO 21424:2018  
Milk, milk products, infant formula and adult nutritionals – Determination of minerals and trace elements – Inductively coupled plasma mass spectrometry (ICP-MS) method

## 67.250 Materijali i predmeti u dodiru s hranom

### Europska normizacija CEN

EN 646:2018  
Paper and board intended to come into contact with foodstuffs – Determination of colour fastness of dyed paper and board

EN 648:2018  
Paper and board intended to come into contact with foodstuffs – Determination of the fastness of fluorescent whitened paper and board

EN 12498:2018  
Paper and board – Paper and board intended to come into contact with foodstuffs – Determination of cadmium, chromium and lead in an aqueous extract

## 71.040.40 Kemijska analiza

### Međunarodna normizacija ISO

ISO 13084:2018  
Surface chemical analysis – Secondary ion mass spectrometry – Calibration of the mass scale for a time-of-flight secondary ion mass spectrometer

ISO 14167:2018  
Gas analysis – General quality aspects and metrological traceability of calibration gas mixtures

ISO 14701:2018  
Surface chemical analysis – X-ray photoelectron spectroscopy – Measurement of silicon oxide thickness

ISO 16129:2018  
Surface chemical analysis – X-ray photoelectron spectroscopy – Procedures for assessing the day-to-day performance of an X-ray photoelectron spectrometer

## 71.100.20 Plinovi za industrijsku primjenu

### Europska normizacija CEN

- EN 17127:2018  
Outdoor hydrogen refuelling points dispensing gaseous hydrogen and incorporating filling protocols

## 71.100.35 Kemikalije za dezinfekciju u industriji i kućanstvima

### Europska normizacija CEN

- EN 14885:2018  
Chemical disinfectants and antiseptics – Application of European Standards for chemical disinfectants and antiseptics

- CEN/TR 17296:2018  
Chemical disinfectants and antiseptics – Differentiation of active and non-active substances

## 71.100.99 Ostali proizvodi kemijske industrije

### Europska normizacija CEN

- EN 15426:2018  
Candles – Specification for sooting behaviour

## 73.040 Ugljen

### Međunarodna normizacija ISO

- ISO 11760:2018  
Classification of coals

- ISO 12900:2018  
Hard coal – Determination of abrasiveness

## 75.020 Crpenje i obrada nafte i prirodnoga plina

### Europska normizacija CEN

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

## 75.060 Prirodni plin

### Europska normizacija CEN

- 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)

### Međunarodna normizacija ISO

- ISO 15112:2018  
Natural gas – Energy determination

## 75.160.20 Tekuća goriva

### Europska normizacija CEN

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

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

- 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)

## 75.180.01 Oprema za naftnu industriju i industriju prirodnoga plina općenito

### Europska normizacija CEN

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

## 75.180.10 Oprema za iskorištavanje i vađenje

### Europska normizacija CEN

- EN ISO 11961:2018  
Petroleum and natural gas industries – Steel drill pipe (ISO 11961:2018)

## 75.200 Oprema za rukovanje naftnim proizvodima i prirodnim plinom

### Europska normizacija CEN

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

- EN ISO 21809-1:2018  
Petroleum and natural gas industries – External coatings for buried or submerged pipelines used in pipeline transportation systems – Part 1: Polyolefin coatings (3-layer PE and 3-layer PP) (ISO 21809-1:2018)

### Međunarodna normizacija ISO

- ISO 20088-3:2018  
Determination of the resistance to cryogenic spillage of insulation materials – Part 3: Jet release

## 77.040.30 Kemijska analiza metala

### Europska normizacija CEN

- CEN/TR 10364:2018  
Steels and cast irons – Determination of substances listed in the directives 2011/65/EU (RoHS) and 2000/53/EC (ELV) – Limitations

## 77.060 Korozija metala

### Međunarodna normizacija ISO

- ISO 8994:2018  
Anodizing of aluminium and its alloys – Rating system for the evaluation of pitting corrosion – Grid method

- ISO 21153:2018  
Corrosion of metals and alloys – Measurement of environmentally assisted small crack growth rate

## 77.080.01 Metali na bazi željeza općenito

### Europska normizacija CEN

CEN/TR 10364:2018  
Steels and cast irons – Determination of substances listed in the directives 2011/65/EU (RoHS) and 2000/53/EC (ELV) – Limitations

## 77.080.20 Čelici

### Europska normizacija CEN

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

### Međunarodna normizacija ISO

ISO 20915:2018  
Life cycle inventory calculation methodology for steel products

## 77.140.50 Proizvodi i poluproizvodi od plosnatog čelika

### Međunarodna normizacija ISO

ISO 16172:2018  
Steel sheet, metallic-coated by the continuous hot-dip process for corrugated steel pipe

### IEC

IEC 60404-9:2018-1192,34 EUR  
Magnetic materials – Part 9: Methods of determination of the geometrical characteristics of electrical steel strip and sheet

## 77.140.60 Čelične šipke i žice

### Europska normizacija CEN

EN 10058:2018  
Hot rolled flat steel bars and steel wide flats for general purposes – Dimensions and tolerances on shape and dimensions

## 77.140.75 Čelične cijevi i čelične cijevi za posebnu namjenu

### Europska normizacija CEN

EN ISO 11961:2018  
Petroleum and natural gas industries – Steel drill pipe (ISO 11961:2018)

## 79.020 Procesi drvne tehnologije

### Međunarodna normizacija ISO

ISO 38200:2018  
Chain of custody of wood and wood-based products

## 79.040 Drvo, trupci i piljena građa

### Europska normizacija CEN

EN 384+A1:2018  
Structural timber – Determination of characteristic values of mechanical properties and density

## 81.060.30 Tehnička keramika

### Međunarodna normizacija ISO

ISO 17167:2018  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Mechanical properties of monolithic ceramics at room temperature – Determination of flexural strength by the ring-on-ring test

## 83.080.01 Plastika općenito

### Europska normizacija CEN

EN ISO 20753:2018  
Plastics – Test specimens (ISO 20753:2018)

### Međunarodna normizacija ISO

ISO 472 AMD 1:2018  
Plastics – Vocabulary – Amendment 1: Additional items

## 83.120 Ojačana plastika

### Europska normizacija CEN

EN 17129:2018  
Continuous-fibre-reinforced plastic composites – Pultruded unidirectional rods – Determination of tensile properties in parallel to the fibre direction

### Međunarodna normizacija ISO

ISO 20337:2018  
Fibre-reinforced plastic composites – Shear test method using a shear frame for the determination of the in-plane shear stress/shear strain response and shear modulus

## 83.140.10 Filmovi i ploče

### Međunarodna normizacija ISO

ISO 527-3:2018  
Plastics – Determination of tensile properties – Part 3: Test conditions for films and sheets

ISO 11502:2018  
Plastics – Film and sheeting – Determination of blocking resistance

ISO 15527:2018  
Plastics – Compression-moulded sheets of polyethylene (PE-UHMW, PE-HD) – Requirements and test methods

## 83.140.20 Laminatne ploče

### Europska normizacija CEN

EN 438-8:2018  
High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 8: Classification and specifications for design laminates

## 83.140.40 Crijeva

### Međunarodna normizacija ISO

ISO 11425:2018  
Rubber hoses and hose assemblies for automobile power-steering systems – Specification

## 83.140.50 Brtve

### Međunarodna normizacija ISO

- ISO 16589-1 AMD 1:2018  
Rotary shaft lip-type seals incorporating thermoplastic sealing elements – Part 1: Nominal dimensions and tolerances; Amendment 1

## 85.060 Papir i karton

### Europska normizacija CEN

- EN 646:2018  
Paper and board intended to come into contact with foodstuffs – Determination of colour fastness of dyed paper and board
- EN 648:2018  
Paper and board intended to come into contact with foodstuffs – Determination of the fastness of fluorescent whitened paper and board
- EN 12498:2018  
Paper and board – Paper and board intended to come into contact with foodstuffs – Determination of cadmium, chromium and lead in an aqueous extract

## 87.040 Boje i lakovi

### Europska normizacija CEN

- EN ISO 7783:2018  
Paints and varnishes – Determination of water-vapour transmission properties – Cup method (ISO 7783:2018)

### Međunarodna normizacija ISO

- ISO 2812-2:2018  
Paints and varnishes – Determination of resistance to liquids – Part 2: Water immersion method

## 87.060.20 Veziva

### Međunarodna normizacija ISO

- ISO 150:2018  
Raw, refined and boiled linseed oil for paints and varnishes – Specifications and methods of test
- ISO 3681:2018  
Binders for paints and varnishes – Determination of saponification value – Titrimetric method

## 87.060.99 Ostali sastojci boja

### Međunarodna normizacija ISO

- ISO 4619:2018  
Driers for paints and varnishes

## 91.080.20 Drvene konstrukcije

### Međunarodna normizacija ISO

- ISO 12122-5:2018  
Timber structures – Determination of characteristic values – Part 5: Mechanical connections

## 91.100.60 Materijali za toplinsku i zvučnu izolaciju

### Europska normizacija CEN

- CEN/TR 17304:2018  
Construction products – Assessment of release of dangerous substances – Determination of emissions into indoor air of ammonia from cellulose insulation at 90 % RH

### Međunarodna normizacija ISO

- ISO 9053-1:2018  
Acoustics – Determination of airflow resistance – Part 1: Static airflow method

## 91.120.20 Akustika u zgradama. Zvučna izolacija

### Međunarodna normizacija ISO

- ISO 20189:2018  
Acoustics – Screens, furniture and single objects intended for interior use – Rating of sound absorption and sound reduction of elements based on laboratory measurements

## 91.140.30 Sustavi prozračivanja i klimatizacije

### Međunarodna normizacija ISO

- ISO 21083-1:2018  
Test method to measure the efficiency of air filtration media against spherical nanomaterials – Part 1: Size range from 20 nm to 500 nm

## 91.140.40 Sustavi opskrbe plinom

### Europska normizacija CEN

- EN 437:2018  
Test gases – Test pressures – Appliance categories

## 91.140.50 Sustavi opskrbe električnom energijom

### Europska normizacija CENELEC

- HD 60364-8-2:2018  
Low-voltage electrical installations – Part 8-2: Prosumer's low-voltage electrical installations (IEC 60364-8-2:2018)

### Međunarodna normizacija IEC

- IEC 60364-5-56:2018  
Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services

## 91.140.70 Sanitarne instalacije

### Europska normizacija CEN

- EN 14516+A1:2018  
Baths for domestic purposes
- EN 14527+A1:2018  
Shower trays for domestic purposes

## 91.140.80 Odvodni sustavi

### Međunarodna normizacija ISO

- ISO 13257:2018  
Thermoplastics piping systems for non-pressure applications  
– Test method for resistance to elevated temperature cycling

## 93.020 Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi

### Međunarodna normizacija ISO

- ISO 17892-10:2018  
Geotechnical investigation and testing – Laboratory testing of soil – Part 10: Direct shear tests
- ISO 22477-1:2018  
Geotechnical investigation and testing – Testing of geotechnical structures – Part 1: Testing of piles: static compression load testing

## 93.030 Vanjski kanalizacijski sustavi

### Europska normizacija CEN

- EN 15885:2018  
Classification and characteristics of techniques for renovation, repair and replacement of drains and sewers

## 93.100 Gradnja željezničkih pruga

### Europska normizacija CENELEC

- EN 50129:2018  
Railway applications – Communication, signalling and processing systems – Safety related electronic systems for signalling

## 97.040.20 Štednjaci, radni stolovi, pećnice i slični uređaji

### Međunarodna normizacija IEC

- IEC 60335-2-15 AMD 2:2018  
Household and similar electrical appliances – Safety – Part 2-15: Particular requirements for appliances for heating liquids; Amendment 2
- IEC 60335-2-15 Edition 6.2:2018  
Household and similar electrical appliances – Safety – Part 2-15: Particular requirements for appliances for heating liquids

## 97.040.30 Kućanski rashladni uređaji

### Europska normizacija CENELEC

- EN 50597:2018  
Energy consumption of vending machines

## 97.040.50 Mali kuhinjski uređaji

### Međunarodna normizacija IEC

- IEC 60335-2-15 AMD 2:2018  
Household and similar electrical appliances – Safety – Part 2-15: Particular requirements for appliances for heating liquids; Amendment 2
- IEC 60335-2-15 Edition 6.2:2018  
Household and similar electrical appliances – Safety – Part 2-15: Particular requirements for appliances for heating liquids

## 97.140 Namještaj

### Europska normizacija CEN

- EN 1022:2018  
Furniture – Seating – Determination of stability
- EN 1335-2:2018  
Office furniture – Office work chair – Part 2: Safety requirements
- CEN/TR 17292:2018  
Technical report regarding precision data for standards EN 12720, EN 12721, EN 12722, EN 15185 and EN 15186

## 97.150 Netekstilni podni prekrivači

### Međunarodna normizacija ISO

- ISO 24342:2018  
Resilient and textile floor-coverings – Determination of side length, edge straightness and squareness of tiles

## 97.170 Oprema za njegu tijela

### Međunarodna normizacija IEC

- IEC 60335-2-8 AMD 2:2018  
Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances; Amendment 2
- IEC 60335-2-8 Edition 6.2:2018  
Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances

## 97.190 Oprema za djecu

### Europska normizacija CEN

- EN 17022:2018  
Child care articles – Bathing aids – Safety requirements and test methods

## 97.195 Umjetnički i obrtnički predmeti

### Europska normizacija CEN

- EN 17114:2018  
Conservation of cultural heritage – Surface protection for porous inorganic materials – Technical and chemical data sheets of water repellent product

## 97.200.50 Igračke

### Međunarodna normizacija ISO

- ISO 8124-6:2018  
Safety of toys – Part 6: Certain phthalate esters in toys and children's products