

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

2/2020

29. veljače 2020.

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 nacрте 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 536:2020 en pr  
Papir i karton – Određivanje gramature (ISO 536:2019; EN ISO 536:2020)  
Paper and board – Determination of grammage (ISO 536:2019; EN ISO 536:2020)

### HZN/TO 8, *Brodogradnja*

HRN EN ISO 10240:2020 en pr  
Mala plovila – Korisnički priručnik (ISO 10240:2019; EN ISO 10240:2020)  
Small craft – Owner's manual (ISO 10240:2019; EN ISO 10240:2020)

### HZN/TO 21, *Protupožarna i vatrogasna oprema*

HRN EN 12259-14:2020 en pr  
Stabilni protupožarni sustavi – Dijelovi sustava za prskanje (sprinkler sustava) i sustava raspršene vode – 14. dio: Sprinkleri za stambene prostore (EN 12259-14:2020)  
Fixed firefighting systems – Components for sprinkler and water spray systems – Part 14: Sprinklers for residential applications (EN 12259-14:2020)

HRN EN 14972-8:2020 en pr  
Stabilni protupožarni sustavi – Sustavi vodene magle – 8. dio: Protokol ispitivanja za sustave otvorenih mlaznica u zatvorenim prostorijama većim od 260 m<sup>3</sup> u kojima se nalaze motori (EN 14972-8:2020)  
Fixed firefighting systems – Water mist systems – Part 8: Test protocol for machinery in enclosures exceeding 260 m<sup>3</sup> for open nozzle systems (EN 14972-8:2020)

HRN EN 14972-9:2020 en pr  
Stabilni protupožarni sustavi – Sustavi vodene magle – 9. dio: Protokol ispitivanja za sustave otvorenih mlaznica u zatvorenim prostorijama manjim od 260 m<sup>3</sup> u kojima se nalaze motori (EN 14972-9:2020)  
Fixed firefighting systems – Water mist systems – Part 9: Test protocol for machinery in enclosures not exceeding 260 m<sup>3</sup> for open nozzle systems (EN 14972-9:2020)

### HZN/TO 28, *Naftni proizvodi i maziva*

HRN EN ISO 4259-3:2020 en pr  
Nafta i srodni proizvodi – Preciznost mjernih metoda i rezultata – 3. dio: Praćenje i upravljanje podacima o preciznosti u odnosu na metode ispitivanja (ISO 4259-3:2020; EN ISO 4259-3:2020)  
Petroleum and related products – Precision of measurement methods and results – Part 3: Monitoring and management of precision data in relation to methods of test (ISO 4259-3:2020; EN ISO 4259-3:2020)

### HZN/TO 37, *Terminologija*

HRN ISO 30042:2020 en pr  
Upravljanje terminološkim resursima – Razmjena terminoloških baza (TBX) (ISO 30042:2019)  
Management of terminology resources – TermBase eXchange (TBX) (ISO 30042:2019)

### HZN/TO 43, *Akustika*

HRN EN ISO 11200:2014/A1:2020 en pr  
Akustika – Buka koju emitiraju strojevi i oprema – Smjernice za uporabu osnovnih norma za određivanje emitiranih razina zvučnoga tlaka na radnome mjestu i na drugim specificiranim mjestima (ISO 11200:2014/Amd 1:2018; EN ISO 11200:2014/A1:2020)  
Acoustics – Noise emitted by machinery and equipment – Guidelines for the use of basic standards for the determination of emission sound pressure levels at a work station and at other specified positions (ISO 11200:2014/Amd 1:2018; EN ISO 11200:2014/A1:2020)

### HZN/TO 46, *Bibliotekarstvo, dokumentacija i informacije*

HRN ISO 3901:2020 en pr  
Informacije i dokumentacija – Međunarodni standardni kod za snimke (ISRC) (ISO 3901:2019)  
Information and documentation – International Standard Recording Code (ISO 3901:2019)

HRN ISO 8126:2020 en pr  
Mikrografija – Umnažanje filma, srebrni, diazo i mjehuričasti – Specifikacije i mjerenje optičke gustoće (ISO 8126:2019)  
Micrographics – Duplicating film; silver; diazo and vesicular – Specifications and measurement for visual density (ISO 8126:2019)

HRN ISO 15511:2020 en pr  
Informacije i dokumentacija – Međunarodni standardni identifikator za knjižnice i srodne ustanove (ISIL) (ISO 15511:2019)  
Information and documentation – International standard identifier for libraries and related organizations (ISIL) (ISO 15511:2019)

HRN ISO 30301:2020 en pr  
Informacije i dokumentacija – Sustavi upravljanja zapisima – Zahtjevi (ISO 30301:2019)  
Information and documentation – Management systems for records – Requirements (ISO 30301:2019)

### HZN/TO 71, *Beton*

HRN EN 12390-12:2020 en pr  
Ispitivanje očvrtnuloga betona – 12. dio: Određivanje otpornosti betona na karbonatizaciju – Metoda ubrzane karbonatizacije (EN 12390-12:2020)  
Testing hardened concrete – Part 12: Determination of the carbonation resistance of concrete – Accelerated carbonation method (EN 12390-12:2020)

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

HRN ISO 13373-2:2020 en pr  
Nadzor stanja i dijagnostika strojeva – Vibracijski nadzor stanja – 2. dio: Obrada, analiza i prikazivanje vibracijskih podataka (ISO 13373-2:2016)  
Condition monitoring and diagnostics of machines – Vibration condition monitoring – Part 2: Processing, analysis and presentation of vibration data (ISO 13373-2:2016)

HRN ISO 13373-3:2020 en pr  
Nadzor stanja i dijagnostika strojeva – Vibracijski nadzor stanja – 3. dio: Smjernice za vibracijsku dijagnostiku (ISO 13373-3:2015)  
Condition monitoring and diagnostics of machines – Vibration condition monitoring – Part 3: Guidelines for vibration diagnosis (ISO 13373-3:2015)

HRN ISO 13373-7:2020 en pr  
Nadzor stanja i dijagnostika strojeva – Vibracijski nadzor stanja – 7. dio: Dijagnostičke metode za strojne sklopove u hidrauličkim postrojenjima za proizvodnju energije i crpnim postrojenjima (ISO 13373-7:2017)  
Condition monitoring and diagnostics of machines – Vibration condition monitoring – Part 7: Diagnostic techniques for machine sets in hydraulic power generating and pump-storage plants (ISO 13373-7:2017)

HRN ISO 13373-9:2020 en pr  
Nadzor stanja i dijagnostika strojeva – Vibracijski nadzor stanja – 9. dio: Dijagnostičke metode za električne motore (ISO 13373-9:2017)  
Condition monitoring and diagnostics of machines – Vibration condition monitoring – Part 9: Diagnostic techniques for electric motors (ISO 13373-9:2017)

## HZN/TO 120, *Koža i obuća*

HRN EN ISO 17076-1:2020 en pr  
Koža – Određivanje otpornosti na habanje – 1. dio: Metoda po Taberu (ISO 17076-1:2020; EN ISO 17076-1:2020)  
Leather – Determination of abrasion resistance – Part 1: Taber® method (ISO 17076-1:2020; EN ISO 17076-1:2020)

## HZN/TO 134, *Gnojiva i poboljšivači tla*

HRN EN 16087-1:2020 en pr  
Poboljšivači tla i supstrati – Određivanje aerobne biološke aktivnosti – 1. dio: Brzina unosa kisika (OUR) (EN 16087-1:2020)  
Soil improvers and growing media – Determination of the aerobic biological activity – Part 1: Oxygen uptake rate (OUR) (EN 16087-1:2020)

## HZN/TO 147, *Kvaliteta vode*

HRN EN ISO 22908:2020 en pr  
Kvaliteta vode – Radij-226 i radij-228 – Metoda ispitivanja s upotrebom tekućinske scintilacije (ISO 22908:2020; EN ISO 22908:2020)  
Water quality – Radium 226 and radium 228 – Test method using liquid scintillation counting (ISO 22908:2020; EN ISO 22908:2020)

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

HRN EN ISO 8596:2018/A1:2020 en pr  
Oftalmološka optika – Ispitivanje oštine vida – Standardni i klinički optotipovi i njihovo prikazivanje (ISO 8596:2017/Amd1:2019; EN ISO 8596:2018/A1:2020)  
Ophthalmic optics – Visual acuity testing – Standard and clinical optotypes and their presentation (ISO 8596:2017/Amd1:2019; EN ISO 8596:2018/A1:2020)

HRN ISO 17123-9:2020 en pr  
Optika i optički instrumenti – Terenski postupci ispitivanja geodetskih instrumenata i instrumenata izmjere – 9. dio: Terestrički laserski skeneri (ISO 17123-9:2018)  
Optics and optical instruments – Field procedures for testing geodetic and surveying instruments – Part 9: Terrestrial laser scanners (ISO 17123-9:2018)

## HZN/TO 217, *Kozmetika*

HRN EN ISO 24444:2020 en pr  
Kozmetika – Metode ispitivanja sredstava za zaštitu od sunca – In vivo određivanje faktora zaštite od sunca (SPF) (ISO 24444:2019; EN ISO 24444:2020)  
Cosmetics – Sun protection test methods – In vivo determination of the sun protection factor (SPF) (ISO 24444:2019; EN ISO 24444:2020)

## HZN/TO 221, *Geosintetici*

HRN EN ISO 12956:2020 en pr  
Geotekstil i proizvodi srodnj s geotekstilom – Određivanje karakteristične veličine otvora (ISO 12956:2019; EN ISO 12956:2020)  
Geotextiles and geotextile-related products – Determination of the characteristic opening size (ISO 12956:2019; EN ISO 12956:2020)

## HZN/TO 502, *Plinski uređaji*

HRN EN 416:2020 en pr  
Plinske ovisne tamno-zračeće cijevne grijalice i tamno-zračeći cijevni sustavi grijanja za nekućansku primjenu – Sigurnost i energijska učinkovitost (EN 416:2019)  
Gas-fired overhead radiant tube heaters and radiant tube heater systems for non-domestic use – Safety and energy efficiency (EN 416:2019)

HRN EN 676:2020 en pr  
Pretlačni plamenici za plinovita goriva (EN 676:2020)  
Forced draught burners for gaseous fuels (EN 676:2020)

HRN EN 16905-2:2020 en pr  
Dizalice topline s plinskim endotermnim motorom – 2. dio: Sigurnost (EN 16905-2:2020)  
Gas-fired endothermic engine driven heat pumps – Part 2: Safety (EN 16905-2:2020)

## HZN/TO 503, *Metalni materijali*

HRN EN ISO 643:2020 en pr  
Čelici – Mikrografsko određivanje prividne veličine zrna (ISO 643:2019; EN ISO 643:2020)  
Steels – Micrographic determination of the apparent grain size (ISO 643:2019; EN ISO 643:2020)

HRN EN ISO 2106:2020 en pr  
Anodizacija aluminija i aluminijevih legura – Određivanje mase po jedinici površine (površinska gustoća) prevlaka dobivenih anodnom oksidacijom – Gravimetrijska metoda (ISO 2106:2019; EN ISO 2106:2020)  
Anodizing of aluminium and its alloys – Determination of mass per unit area (surface density) of anodic oxidation coatings – Gravimetric method (ISO 2106:2019; EN ISO 2106:2020)

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

HRN EN ISO 11844-3:2020 en pr  
Korozija metala i legura – Razredba niske korozivnosti atmosfera unutrašnjeg prostora – 3. dio: Mjerenje okolišnih parametara koji utječu na korozivnost unutrašnjeg prostora (ISO 11844-3:2020; EN ISO 11844-3:2020)  
Corrosion of metals and alloys – Classification of low corrosivity of indoor atmospheres – Part 3: Measurement of environmental parameters affecting indoor corrosivity (ISO 11844-3:2020; EN ISO 11844-3:2020)

HRN EN ISO 14713-2:2020 en pr  
Cinkove prevlake – Smjernice i preporuke za zaštitu od korozije konstrukcija iz željeznog lijeva i čelika – 2. dio: Vruće pocinčavanje (ISO 14713-2:2019; EN ISO 14713-2:2020)  
Zinc coatings – Guidelines and recommendations for the protection against corrosion of iron and steel in structures – Part 2: Hot dip galvanizing (ISO 14713-2:2019; EN ISO 14713-2:2020)

## HZN/TO 508, *Ambalaža i pakiranje*

HRN EN 14848:2020 en pr  
Spremnici za aerosole – Metalni spremnici s otvorom 25,4 mm – Dimenzije tijela ventila (EN 14848:2020)  
Aerosol containers – Metal containers with 25,4 mm aperture – Dimensions of valve cups (EN 14848:2020)

## HZN/TO 509, *Cestovna oprema*

HRS CEN/TS 17342:2020 en pr  
Zaštitni cestovni sustavi – Zaštitni cestovni sustavi za motocikle koji smanjuju posljedice udara motociklista u zaštitnu ogradu (CEN/TS 17342:2019)  
Road restraint systems – Motorcycle road restraint systems which reduce the impact severity of motorcyclist collisions with safety barriers (CEN/TS 17342:2019)

## HZN/TO 524, *Inteligentni transportni sustavi*

HRI CEN/TR 17401:2020 en pr  
Inteligentni transportni sustavi – Gradski ITS – Upute za okruženje različitih isporučitelja (CEN/TR 17401:2020)  
Intelligent transport systems – Urban-ITS – Mixed vendor environment guide (CEN/TR 17401:2020)

## HZN/TO 528, *Oprema za željeznice*

HRN EN 15153-1:2020 en pr  
Željeznički sustav – Vanjski uređaji za svjetlosna i zvučna upozorenja na vozilima – 1. dio: Glavna i pozicijska svjetla i završni signali za upotrebu na željezničkim prugama (EN 15153-1:2020)  
Railway applications – External visible and audible warning devices – Part 1: Head, marker and tail lamps for heavy rail (EN 15153-1:2020)

HRN EN 15153-2:2020 en pr  
Željeznički sustav – Vanjski uređaji za svjetlosna i zvučna upozorenja na vozilima – 2. dio: Upozoravajuće sirene za upotrebu na željezničkim prugama (EN 15153-2:2020)  
Railway applications – External visible and audible warning devices – Part 2: Warning horns for heavy rail (EN 15153-2:2020)

- HRN EN 15153-3:2020 en pr  
Željeznički sustav – Vanjski uređaji za svjetlosna i zvučna upozorenja na vozilima – 3. dio: Uređaji za svjetlosna upozorenja za gradski i prigradski tračnički prijevoz (EN 15153-3:2020)  
Railway applications – External visible and audible warning devices – Part 3: Visible warning devices for urban rail (EN 15153-3:2020)
- HRN EN 15153-4:2020 en pr  
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Railway applications – External visible and audible warning devices – Part 4: Audible warning devices for urban rail (EN 15153-4:2020)
- HZN/TO 531, *Plastika i guma***
- HRN EN 13206:2020 en pr  
Plastika – Plastomerni pokrivni filmovi za uporabu u poljoprivredi i vrtlarstvu (EN 13206:2017+A1:2020)  
Plastics – Thermoplastic covering films for use in agriculture and horticulture (EN 13206:2017+A1:2020)
- HRN EN ISO 23153-2:2020 en pr  
Plastika – Polieter eter keton (PEEK) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprava ispitaka i određivanje svojstava (ISO 23153-2:2020; EN ISO 23153-2:2020)  
Plastics – Polyetheretherketone (PEEK) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 23153-2:2020; EN ISO 23153-2:2020)
- HZN/TO 534, *Spremnici za teret***
- HRN ISO 21010:2020 en pr  
Kriogenične posude – Usklađenost plin/materijal (ISO 21010:2017)  
Cryogenic vessels – Gas/material compatibility (ISO 21010:2017)
- HZN/TO 537, *Tehnički crteži, dimenzijske i geometrijske specifikacije, opis proizvoda i odgovarajuća dokumentacija***
- HRN EN ISO 6414:2020 en pr  
Tehnička dokumentacija proizvoda – Tehnički crteži dijelova od stakla (ISO 6414:2020; EN ISO 6414:2020)  
Technical product documentation (TPD) – Technical drawings for glassware (ISO 6414:2020; EN ISO 6414:2020)
- HRN EN ISO 16610-61:2015/A1:2020 en pr  
Geometrijske specifikacije proizvoda (GSP) – Filtriranje – 61. dio: Linearni plošinski filtri – Gaussovi filtri (ISO 16610-61:2015/Amd 1:2019; EN ISO 16610-61:2015/A1:2020)  
Geometrical product specification (GPS) – Filtration – Part 61: Linear areal filters – Gaussian filters (ISO 16610-61:2015/Amd 1:2019; EN ISO 16610-61:2015/A1:2020)
- HZN/TO 541, *Sustavi grijanja, ventilacije i klimatizacije u građevinama***
- HRN EN 16282-6:2020 en pr  
Oprema za profesionalne kuhinje – Komponente za ventilaciju u profesionalnim kuhinjama – 6. dio: Odvajači/separatori aerosola, projektiranje i sigurnosni zahtjevi (EN 16282-6:2020)  
Equipment for commercial kitchens – Components for ventilation of commercial kitchens – Part 6: Aerosol separators, Design and safety requirements (EN 16282-6:2020)
- HRN EN ISO 22510:2020 en pr  
Otvorena podatkovna komunikacija u automatizaciji zgrada, nadzor i upravljanje zgradama – Elektronički sustavi za obiteljske kuće i zgrade – KNXnet/IP komunikacija (ISO 22510:2019; EN ISO 22510:2020)  
Open data communication in building automation, controls and building management – Home and building electronic systems – KNXnet/IP communication (ISO 22510:2019; EN ISO 22510:2020)
- HZN/TO 543, *Poštanske usluge***
- HRN EN 14012:2020 en pr  
Poštanske usluge – Kvaliteta usluge – Načela postupanja s prigovorima (EN 14012:2019)  
Postal services – Quality of service – Complaints handling principles (EN 14012:2019)
- HZN/TO 551, *Gradnja***
- HRN EN ISO 12006-2:2020 en pr  
Građenje – Organiziranje informacija o građevinama – 2. dio: Okvir za razredbu (ISO 12006-2:2015; EN ISO 12006-2:2020)  
Building construction – Organization of information about construction works – Part 2: Framework for classification (ISO 12006-2:2015; EN ISO 12006-2:2020)
- HZN/TO 555, *Medicinski proizvodi***
- HRN EN ISO 11607-1:2020 en pr  
Ambalaža za završno sterilizirane medicinske proizvode – 1. dio: Zahtjevi za materijale, sustave sterilne obloge i sustave ambalaže (ISO 11607-1:2019; EN ISO 11607-1:2020)  
Packaging for terminally sterilized medical devices – Part 1: Requirements for materials, sterile barrier systems and packaging systems (ISO 11607-1:2019; EN ISO 11607-1:2020)
- HRN EN ISO 11607-2:2020 en pr  
Ambalaža za završno sterilizirane medicinske proizvode – 2. dio: Vrednovanje zahtjeva za oblikovanje, lijepljenje i postupke sastavljanja (ISO 11607-2:2019; EN ISO 11607-2:2020)  
Packaging for terminally sterilized medical devices – Part 2: Validation requirements for forming, sealing and assembly processes (ISO 11607-2:2019; EN ISO 11607-2:2020)
- HZN/TO 556, *Osobna zaštitna oprema***
- HRN EN ISO 18526-3:2020 en pr  
Štitnici za oči i lice – Metode ispitivanja – 3. dio: Fizikalna i mehanička svojstva (ISO 18526-3:2020; EN ISO 18526-3:2020)  
Eye and face protection – Test methods – Part 3: Physical and mechanical properties (ISO 18526-3:2020; EN ISO 18526-3:2020)
- HZN/TO 559, *Zaporni, regulacijski i sigurnosni uređaji***
- HRN EN ISO 22109:2020 en pr  
Industrijski zaporni uređaji – Regulator zapornih uređaja (ISO 22109:2020; EN ISO 22109:2020)  
Industrial valves – Gearbox for valves (ISO 22109:2020; EN ISO 22109:2020)
- HZN/TO 560, *Tekstilni proizvodi***
- HRN EN ISO 20705:2020 en pr  
Tekstil – Kvantitativna mikroskopska analiza – Opća načela ispitivanja (ISO 20705:2019; EN ISO 20705:2020)  
Textiles – Quantitative microscopical analysis – General principles of testing (ISO 20705:2019; EN ISO 20705:2020)
- HZN/TO 561, *Kotlovi, posude pod tlakom, cjevovodi i plinske boce***
- HRN EN 267:2020 en pr  
Pretlačni plamenici za kapljevit goriva (EN 267:2020)  
Forced draught burners for liquid fuels (EN 267:2020)
- HZN/TO 566, *Mlijeko i mliječni proizvodi***
- HRN EN ISO 16297:2020 en pr  
Mlijeko – Broj bakterija – Protokol za vrednovanje alternativnih metoda (ISO 16297:2020; EN ISO 16297:2020)  
Milk – Bacterial count – Protocol for the evaluation of alternative methods (ISO 16297:2020; EN ISO 16297:2020)
- HZN/TO 568, *Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranom***
- HRN EN 17250:2020 en pr  
Hrana – Određivanje okratoksina A u začinicima, sladiću, kakau i proizvodima od kaka a pročišćavanjem imunoafinitetnim kolonama (IAC) i tekućinskom kromatografijom visokog učinka s fluorescentnom detekcijom (HPLC-FLD) (EN 17250:2020)  
Foodstuffs – Determination of ochratoxin A in spices, liquorice, cocoa and cocoa products by IAC clean-up and HPLC-FLD (EN 17250:2020)
- HRN EN 17251:2020 en pr  
Hrana – Određivanje okratoksina A u svinjetini i proizvodima od svinjetine pročišćavanjem imunoafinitetnim kolonama (IAC) i tekućinskom kromatografijom visokog učinka s fluorescentnom detekcijom (HPLC-FLD) (EN 17251:2020)  
Foodstuffs – Determination of ochratoxin A in pork meat and derived products by IAC clean-up and HPLC-FLD (EN 17251:2020)

## **HZN/TO 574, Sustavi upravljanja kvalitetom, rizicima, vrijednostima i inovacijama**

HRN EN 12973:2020 en pr  
Upravljanje vrijednostima (EN 12973:2020)  
Value Management (EN 12973:2020)

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

HRS CLC/TS 50654-1:2020 en pr  
HVDC mrežni sistemi i priključene pretvaračke stanice – Smjernice i popisi parametara za funkcionalne specifikacije – 1. dio: Smjernice (CLC/TS 50654-1:2018)  
HVDC Grid Systems and connected Converter Stations – Guideline and Parameter Lists for Functional Specifications – Part 1: Guidelines (CLC/TS 50654-1:2018)

HRS CLC/TS 50654-2:2020 en pr  
HVDC mrežni sistemi i priključene pretvaračke stanice – Smjernice i popisi parametara za funkcionalne specifikacije – 2. dio: Popisi parametara (CLC/TS 50654-2:2018)  
HVDC Grid Systems and connected Converter Stations – Guideline and Parameter Lists for Functional Specifications – Part 2: Parameter Lists (CLC/TS 50654-2:2018)

## **HZN/TO E9, Električna oprema za željeznicu**

HRN EN 50128:2013/A1:2020 en pr  
Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Softver za željezničke upravljačke i kontrolne sustave (EN 50128:2011/A1:2020)  
Railway applications – Communication, signalling and processing systems – Software for railway control and protection systems (EN 50128:2011/A1:2020)

HRN EN 50153:2014/A2:2020 en pr  
Željeznički sustav – Željeznička vozila – Odredbe o zaštiti od opasnosti od električnog udara (EN 50153:2014/A2:2020)  
Railway applications – Rolling stock – Protective provisions relating to electrical hazards (EN 50153:2014/A2:2020)

HRN EN 50159:2011/A1:2020 en pr  
Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Sigurnosna komunikacija u prijenosnim sustavima (EN 50159:2010/A1:2020)  
Railway applications – Communication, signalling and processing systems – Safety-related communication in transmission systems (EN 50159:2010/A1:2020)

HRN EN 50163:2007/A2:2020 en pr  
Željeznički sustav – Naponi napajanja vučnih sustava (EN 50163:2004/A2:2020)  
Railway applications – Supply voltages of traction systems (EN 50163:2004/A2:2020)

HRN EN 50553:2013/A2:2020 en pr  
Željeznički sustav – Zahtjevi za mogućnost vožnje u slučaju požara na vozilu (EN 50553:2012/A2:2020)  
Railway applications – Requirements for running capability in case of fire on board of rolling stock (EN 50553:2012/A2:2020)

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

HRN EN 60947-2:2017/A1:2020 en pr  
Niskonaponska sklopna aparatura – 2. dio: Prekidajući (IEC 60947-2:2016/am1:2019; EN 60947-2:2017/A1:2020)  
Low-voltage switchgear and controlgear – Part 2: Circuit-breakers (IEC 60947-2:2016/am1:2019; EN 60947-2:2017/A1:2020)

HRN EN 62026-3:2015/A11:2020 en pr  
Niskonaponska sklopna aparatura – Sučelja prema regulacijskomu uređaju (CDIs) – 3. dio: Komunikacijski protokol regulacijskog uređaja DeviceNet (EN 62026-3:2015/A11:2020)  
Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs) – Part 3: DeviceNet (EN 62026-3:2015/A11:2020)

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

HRN EN 60335-2-105:2008/A2:2020 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-105: Posebni zahtjevi za višenamjenske tuševe (IEC 60335-2-105:2004/am2:2013; EN 60335-2-105:2005/A2:2020)  
Household and similar electrical appliances – Safety – Part 2-105: Particular requirements for multifunctional shower cabinets (IEC 60335-2-105:2004/am2:2013; EN 60335-2-105:2005/A2:2020)

## **HZN/TO E65, Mjerenje, vođenje i automatizacija industrijskih procesa**

HRN EN 61784-3-12:2011/A1:2020 en pr  
Industrijske komunikacijske mreže – Profili – Dio 3-12: Industrijske sabirnice (fieldbus) za funkcijsku sigurnost – Dodatne specifikacije za CPF (IEC 61784-3-12:2010/am1:2019; EN 61784-3-12:2010/A1:2019)  
Industrial communication networks – Profiles – Part 3-12: Functional safety fieldbuses – Additional specifications for CPF (IEC 61784-3-12:2010/am1:2019; EN 61784-3-12:2010/A1:2019)

## **HZN/TO E106, Elektromagnetska polja u ljudskome okolišu**

HRN EN IEC 62311:2020 en pr  
Ocjena elektroničke i električne opreme s obzirom na ograničenja izloženosti ljudi elektromagnetskim poljima (0 Hz-300 GHz) (IEC 62311:2019; EN IEC 62311:2020)  
Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz-300 GHz) (IEC 62311:2019; EN IEC 62311:2020)

## **HZN/TO E502, Elektrotehnički aspekti telekomunikacijske opreme**

HRN EN 50310:2016/A1:2020 en pr  
Mreža uzemljenja telekomunikacija u zgradama i ostalim građevinama (EN 50310:2016/A1:2020)  
Telecommunications bonding networks for buildings and other structures (EN 50310:2016/A1:2020)

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

HRN EN 301 908-15 V15.1.1:2020 en pr  
IMT celularne mreže – Harmonizirana norma za pristup radijskom spektru – 15. dio: Repetitori za razvijeni univerzalni terestrijalni radijski pristup (E-UTRA FDD) (EN 301 908-15 V15.1.1:2020)  
IMT cellular networks – Harmonised Standard for access to radio spectrum – Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters (EN 301 908-15 V15.1.1:2020)

HRN EN 302 636-4-1 V1.4.1:2020 en pr  
Inteligentni transportni sustavi (ITS) – Komunikacije među vozilima – Geomrežavanje – 4. dio: Geoadresiranje i prosljeđivanje za komunikacije točka-točka i točka-točke – 1. poddio: Medijski neovisna funkcionalnost (EN 302 636-4-1 V1.4.1:2020)  
Intelligent Transport Systems (ITS) – Vehicular Communications – GeoNetworking – Part 4: Geographical addressing and forwarding for point-to-point and point-to-multipoint communications – Sub-part 1: Media-Independent Functionality (EN 302 636-4-1 V1.4.1:2020)

HRN EN 303 345-2 V1.1.1:2020 en pr  
Radiodifuzni audio prijamnici – 2. dio: AM radiodifuzni audio servis – Harmonizirana norma za pristup radijskom spektru (EN 303 345-2 V1.1.1:2020)  
Broadcast Sound Receivers – Part 2: AM broadcast sound service – Harmonised Standard for access to radio spectrum (EN 303 345-2 V1.1.1:2020)

HRN EN 303 345-5 V1.1.1:2020 en pr  
Radiodifuzni audio prijamnici – 5. dio: DRM radiodifuzni audio servis – Harmonizirana norma za pristup radijskom spektru (EN 303 345-5 V1.1.1:2020)  
Broadcast Sound Receivers – Part 5: DRM broadcast sound service – Harmonised Standard for access to radio spectrum (EN 303 345-5 V1.1.1:2020)

HRN EN 303 613 V1.1.1:2020 en pr  
Inteligentni transportni sustavi (ITS) – LTE-V2X specifikacija pristupnog sloja za inteligentne transportne sustave koji rade u frekvencijskom pojasu od 5 GHz (EN 303 613 V1.1.1:2020)  
Intelligent Transport Systems (ITS) – LTE-V2X Access layer specification for Intelligent Transport Systems operating in the 5 GHz frequency band (EN 303 613 V1.1.1:2020)

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

HRN EN ISO 10581:2020 en pr  
Elastične podne obloge – Homogene poli(vinil-kloridne) podne obloge – Specifikacija (ISO 10581:2019; EN ISO 10581:2020)  
Resilient floor coverings – Homogeneous poly(vinyl chloride) floor covering – Specifications (ISO 10581:2019; EN ISO 10581:2020)

HRN EN 17169:2020 en pr  
Tetoviranje – Sigurni i higijenski postupci (EN 17169:2020)  
Tattooing – Safe and hygienic practice (EN 17169:2020)

## HZN/TU C1, *Kemikalije, kemijsko inženjerstvo, poljoprivredni i prehrambeni proizvodi 1*

HRN EN 14103:2020 en pr  
Derivati masti i ulja – Metilni esteri masnih kiselina – Određivanje estera i sadržaja metilnih estera linolenske kiseline (EN 14103:2020)  
Fat and oil derivatives – Fatty Acid Methyl Esters (FAME) – Determination of ester and linolenic acid methyl ester contents (EN 14103:2020)

HRN EN ISO 15091:2020 en pr  
Boje i lakovi – Određivanje električne provodljivosti i otpora (ISO 15091:2019; EN ISO 15091:2020)  
Paints and varnishes – Determination of electrical conductivity and resistance (ISO 15091:2019; EN ISO 15091:2020)

HRN EN ISO 15184:2020 en pr  
Boje i lakovi – Određivanje tvrdoće filma ispitivanjem s olovkom (ISO 15184:2020; EN ISO 15184:2020)  
Paints and varnishes – Determination of film hardness by pencil test (ISO 15184:2020; EN ISO 15184:2020)

HRN EN 17351:2020 en pr  
Proizvodi na biološkoj osnovi – Određivanje udjela kisika korištenjem elementarnog analizatora (EN 17351:2020)  
Bio-based products – Determination of the oxygen content using an elemental analyser (EN 17351:2020)

## HZN/TU I2, *Strojarstvo 2*

HRN EN ISO 11665-3:2020 en pr  
Measurement of radioactivity in the environment – Air: radon-222 – Part 3: Spot measurement method of the potential alpha energy concentration of its short-lived decay products (ISO 11665-3:2020; EN ISO 11665-3:2020)

HRN EN ISO 11665-5:2020 en pr  
Measurement of radioactivity in the environment – Air: radon-222 – Part 5: Continuous measurement methods of the activity concentration (ISO 11665-5:2020; EN ISO 11665-5:2020)

HRN EN ISO 11665-6:2020 en pr  
Measurement of radioactivity in the environment – Air: radon-222 – Part 6: Spot measurement methods of the activity concentration (ISO 11665-6:2020; EN ISO 11665-6:2020)

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

HRN EN ISO 8536-4:2020 en pr  
Oprema za infuziju za medicinsku primjenu – 4. dio: Pribori za infuziju za jednokratnu upotrebu, s gravitacijskim punjenjem (ISO 8536-4:2019; EN ISO 8536-4:2020)  
Infusion equipment for medical use – Part 4: Infusion sets for single use, gravity feed (ISO 8536-4:2019; EN ISO 8536-4:2020)

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

HRN EN 2997-011:2020 en pr  
Zrakoplovstvo – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatru ili neotporne na vatru, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – Dio 011: Prazne utičnice – Norma za proizvod (EN 2997-011:2019)  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire resistant or non fire resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 011: Dummy receptacle – Product standard (EN 2997-011:2019)

HRN EN 3155-017:2020 en pr  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 017: Kontakti, električni, relejna osnova, ženski, tip A, za krimpiranje, razreda P – Norma za proizvod (EN 3155-017:2020)  
Aerospace series – Electrical contacts used in elements of connection – Part 017: Contacts, electrical, relay base, female, type A, crimp, class P – Product standard (EN 3155-017:2020)

HRN EN 3155-019:2020 en pr  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 019: Kontakti, električni, ženski, tip A, za krimpiranje, klasa S – Norma za proizvod (EN 3155-019:2019)  
Aerospace series – Electrical contacts used in elements of connection – Part 019: Contacts, electrical, female, type A, crimp, class S – Product standard (EN 3155-019:2019)

HRN EN 3219:2020 en pr  
Zrakoplovstvo – Legura na bazi nikla otporna na toplinu (Ni-P100HT) – Hladno obrađena i omekšana – Šipke i žice za kovanje kontinuiranim postupkom ili ekstrudiranje za spojne elemente – 3 mm ≤ D ≤ 30 mm (EN 3219:2020)  
Aerospace series – Heat resisting nickel base alloy (Ni-P100HT) – Cold worked and softened – Bar and wire for continuous forging or extrusion for fasteners – 3 mm ≤ D ≤ 30 mm (EN 3219:2020)

HRN EN 3358:2020 en pr  
Zrakoplovstvo – Čelik FE-PM1503 (X3CrNiMoAl 13-8-2) – Topljen vakuumskom indukcijom i pretopljen s topljivom elektrodom – Obrađen otopinom i precipitatom – Šipke za strojnu obradu – a ili D ≤ 150 mm – Rm ≥ 1 400 MPa (EN 3358:2020)  
Aerospace series – Steel FE-PM1503 (X3CrNiMoAl 13-8-2) – Vacuum induction melted and consumable electrode remelted – Solution treated and precipitation treated – Bar for machining – a or D ≤ 150 mm – Rm ≥ 1 400 MPa (EN 3358:2020)

HRN EN 3666:2020 en pr  
Zrakoplovstvo – Legura otporna na toplinu NI-PH2601 – Obrađena otopinom i hladno obrađena – Šipke za kovane spojne elemente – D ≤ 50 mm – 1 550 MPa ≤ Rm ≤ 1 830 MPa (EN 3666:2020)  
Aerospace series – Heat resisting alloy NI-PH2601 – Solution treated and cold worked – Bar for forged fasteners – D ≤ 50 mm – 1 550 MPa ≤ Rm ≤ 1 830 MPa (EN 3666:2020)

HRN EN 3761:2020 en pr  
Zrakoplovstvo – Legura otporna na toplinu FE-PA2601 – Omekšana i hladno obrađena – Šipke za kovane spojne elemente – D ≤ 50 mm – 1 100 MPa ≤ Rm ≤ 1 300 MPa (EN 3761:2020)  
Aerospace series – Heat resisting alloy FE-PA2601 – Softened and cold worked – Bar for forged fasteners – D ≤ 50 mm – 1 100 MPa ≤ Rm ≤ 1 300 MPa (EN 3761:2020)

HRN EN 4604-007:2020 en pr  
Zrakoplovstvo – Kabel, električni, za prijenos signala – Dio 007: Kabel, koaksijalni 50 Ω, 200 °C, tip WN – Norma za proizvod (EN 4604-007:2019)  
Aerospace series – Cable, electrical, for signal transmission – Part 007: Cable, coaxial, 50 ohms, 200 °C, type WN – Product standard (EN 4604-007:2019)

HRN EN 4681-001:2020 en pr  
Zrakoplovstvo – Kabeli, električni, opće namjene, s aluminijskim vodičem ili aluminijskim vodičem presvučenim bakrom – Dio 001: Tehnička specifikacija (EN 4681-001:2019)  
Aerospace series – Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium – Part 001: Technical specification (EN 4681-001:2019)

HRN EN 4707:2020 en pr  
Zrakoplovstvo – Kiselo dekapiranje aluminija i legura aluminija bez šesterovalentnog kroma (EN 4707:2020)  
Aerospace series – Acid pickling of aluminium and aluminium alloys without hexavalent chromium (EN 4707:2020)

HRN EN 4840-102:2020 en pr  
Zrakoplovstvo – Lijevani fazonski dijelovi koji se skupljaju na toplini – 102. dio: Elastomerni, polukruti, raspon temperature od -75 do 150 °C – Norma za proizvod (EN 4840-102:2019)  
Aerospace series – Heat shrinkable moulded shapes – Part 102: Elastomeric, semi-rigid, temperature range -75 to 150 °C – Product Standard (EN 4840-102:2019)

HRN EN 16604-20:2020 en pr  
Održivost u svemiru – Zaštita planeta (EN 16604-20:2020)  
Space sustainability – Planetary protection (EN 16604-20:2020)

HRN EN 16796-6:2020 en pr  
Energijaska učinkovitost industrijskih vozila – Metode ispitivanja  
– 6. dio: Oporočni viličar za kontejnere (EN 16796-6:2020)  
Energy efficiency of industrial trucks – Test methods – Part 6:  
Container straddle carriers (EN 16796-6:2020)

HRN EN 17314:2020 en pr  
Industrijska vozila – Specifikacije i metode ispitivanja  
– Sustavi sigurnosti rukovatelja, osim sigurnosnog remena  
preko krila (EN 17314:2020)  
Industrial trucks – Specifications and test methods  
– Operator restraint systems other than lap-type seat belts  
(EN 17314:2020)

## HZN/TU U1, *Opća elektrotehnika 1*

HRN EN 50614:2020 en pr  
Zahtjevi za pripremu za ponovnu uporabu otpadne  
električne i elektroničke opreme (EN 50614:2020)  
Requirements for the preparing for re-use of waste electrical  
and electronic equipment (EN 50614:2020)

## 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 34, *Poljoprivredni i prehrambeni proizvodi*

prEN ISO 11132 en  
Sensory analysis – Methodology – Guidelines for  
monitoring the performance of a quantitative sensory panel  
(ISO/DIS 11132:2020)  
Senzorska analiza – Metodologija – Smjernice za  
praćenje karakteristika kvantitativnog senzorskog panela  
(ISO/DIS 11132:2020)

## HZN/TO 43, *Akustika*

prEN ISO 9053-2 en  
Acoustics – Determination of airflow resistance – Part 2:  
Alternating airflow method (ISO/DIS 9053-2:2020)  
Akustika – Određivanje otpora strujanju zraka – 2. dio:  
Metoda izmjeničnog strujanju zraka (ISO/DIS 9053-2:2020)

## HZN/TO 120, *Koža i obuća*

prEN ISO 14931 en  
Leather – Guide to the selection of leather for apparel  
(excluding furs) (ISO/DIS 14931:2020)  
Koža – Upute za odabir kože za odjeću (isključujući krzna)  
(ISO/DIS 14931:2020)

prEN ISO 17130 en  
Leather – Physical and mechanical tests – Determination of  
dimensional change (ISO/DIS 17130:2020)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje  
promjene dimenzija (ISO/DIS 17130:2020)

prEN ISO 19574 en  
Footwear and footwear components – Qualitative  
test method to assess antifungal activity (growth test)  
(ISO/DIS 19574:2020)

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

prEN ISO 10079-4 en  
Medical suction equipment – Part 4: General requirements  
(ISO/DIS 10079-4:2020)

EN ISO 15002:2008/prA2 en  
Flow-metering devices for connection to terminal units of  
medical gas pipeline systems (ISO 15002:2008/DAM 2:2020)  
Mjerni uređaji protoka koji se spajaju na priključnu jedinicu  
medicinskoga plinovodnog sustava (ISO 15002:2008/DAM 2:2020)

prEN ISO 80601-2-87 en  
Medical electrical equipment – Part 2-87: Particular  
requirements for basic safety and essential performance of  
high-frequency ventilators (ISO/DIS 80601-2-87:2020)

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

EN ISO 15494:2018/prA1 en  
Plastics piping systems for industrial applications  
– Polybutene (PB), polyethylene (PE), polyethylene  
of raised temperature resistance (PE-RT), crosslinked  
polyethylene (PE-X), polypropylene (PP) – Metric  
series for specifications for components and the system  
(ISO 15494:2015/DAMd 1:2020)  
Plastični cijevni sustavi za industrijsku primjenu – Polibuten  
(PB), polietilen (PE), polietilen postojan pri povišenoj  
temperaturi (PE-RT), umreženi polietilen (PE-X) i polipropilen  
(PP) – Metrički nizovi za specifikacije za sastavnice i sustav  
(ISO 15494:2015/DAMd 1:2020)

## HZN/TO 146, *Kvaliteta zraka*

prEN 482 en  
Workplace exposure – Procedures for the determination of  
the concentration of chemical agents – General performance  
requirements  
Profesionalna izloženost – Postupci za određivanje  
koncentracije kemijskih tvari – Opći zahtjevi za rad

## HZN/TO 147, *Kvaliteta vode*

prEN ISO 13162 en  
Water quality – Carbon 14 – Test method using liquid  
scintillation counting (ISO/DIS 13162:2020)  
Kvaliteta vode – Ugljik-14 – Metoda ispitivanja s upotrebom  
tekućinske scintilacije (ISO/DIS 13162:2020)

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

EN ISO 11978:2017/prA1 en  
Ophthalmic optics – Contact lenses and contact lens care  
products – Labelling (ISO 11978:2017/DAMd 1:2020)  
Oftalmološka optika – Kontaktne leće i proizvodi za njegu  
kontaktnih leća – Označavanje (ISO 11978:2017/DAMd 1:2020)

## HZN/TO 178, *Dizala, pokretne stube i pokretne trake za osobe*

prEN 115-2 en  
Safety of escalators and moving walks – Part 2: Rules for  
the improvement of safety of existing escalators and moving  
walks  
Sigurnost pokretnih stuba i pokretnih traka – 2. dio: Pravila za  
poboljšanje sigurnosti postojećih pokretnih stuba i pokretnih traka

## HZN/TO 215, *Medicinska informatika*

prEN ISO 11073-10101 en  
Health informatics – Point-of-care medical device communication  
– Part 10101: Nomenclature (ISO/IEEE FDIS 11073-10101:2020)  
Medicinska informatika – Povezivost medicinskog  
uređaja u trenutku liječenja – 10101. dio: Nomenklatura  
(ISO/IEEE FDIS 11073-10101:2020)

prEN ISO 18530 en  
Health Informatics – Automatic identification and data capture  
marking and labelling – Subject of care and individual provider  
identification (ISO/DIS 18530:2020)

## HZN/TO 301, *Upravljanje energijom i ušteda energije*

prEN 16247-1 en  
Energy audits – Part 1: General requirements  
Energijski audit – 1. dio: Opći zahtjevi

prEN 16247-2 en  
Energy audits – Part 2: Buildings  
Energijski audit – 2. dio: Zgrade

prEN 16247-3 en  
Energy audits – Part 3: Processes  
Energijski audit – 3. dio: Procesi



prEN 16247-4 en  
Energy audits – Part 4: Transport  
Energjski auditi – 4. dio: Prijevoz

prEN 17463 en  
Methodology for the Valuation of Energy Related Investments  
(ValERI)

### **HZN/TO 502, Plinski uređaji**

prEN 26 en  
Gas-fired instantaneous water heaters for the production of  
domestic hot water  
Plinske protočne grijalice vode za sanitarnu upotrebu

prEN 17476 en  
Specifications for dedicated liquefied petroleum gas  
appliances – LPG vapour pressure appliances incorporating  
an horizontal cartridge in the chassis

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

prEN ISO 8407 en  
Corrosion of metals and alloys – Removal of corrosion  
products from corrosion test specimens (ISO/DIS 8407:2020)  
Korozija metala i legura – Uklanjanje korozivskih produkata  
s uzoraka za ispitivanje korozije (ISO/DIS 8407:2020)

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

prEN 1463-3 en  
Road marking materials – Part 3: Active road studs:  
performance requirements  
Materijali za oznake na kolniku – 3. dio: Aktivni markeri:  
zahtijevana svojstva

### **HZN/TO 516, Usluge prijevoza**

prEN 17478 en  
Transport Services – Customer communications for passenger  
transport services – A Universal Design approach

### **HZN/TO 517, Posebne vrste konstrukcija**

prEN 15620 en  
Steel static storage systems – Tolerances, deformations and  
clearances  
Čelični nepokretni skladišni sustavi – Dopuštena odstupanja,  
deformacije i zračnost (slobodni prostor između elemenata)

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

prEN 17467 en  
Surfaces for sports areas – Test method for the determination  
of the residual deformation of synthetic or organic infill  
granules after static load  
Površine sportskih terena – Metoda ispitivanja za određivanje  
zaostale deformacije sintetičkih ili organskih granula za  
ispunu nakon statičkog opterećenja

### **HZN/TO 521, Usluge održavanja**

prEN 17485 en  
Maintenance – Maintenance within physical asset  
management – Framework for improving the value of the  
physical assets through their whole life cycle

prEN ISO 41014 en  
Facility management – Development of facility management  
strategy (ISO/DIS 41014:2020)

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

EN 13103-1:2017/prA1:2020 en  
Railway applications – Wheelsets and bogies – Part 1:  
Design method for axles with external journals  
Željeznički sustav – Osovinski sklopovi i okretna postolja  
– Metoda projektiranja za vanjske nosive osovine

prEN 13232-1 en  
Railway applications – Track – Switches and crossings for  
Vignole rails – Part 1: Definitions

prEN 13232-2 en  
Railway applications – Track – Switches and crossings for  
Vignole rails – Part 2: Requirements for geometric design

prEN 13232-3 en  
Railway applications – Track – Switches and crossings for  
Vignole rails – Part 3: Requirements for wheel/rail interaction

prEN 13232-4 en  
Railway applications – Track – Switches and crossings for  
Vignole rails – Part 4: Actuation, locking and detection

prEN 13232-5 en  
Railway applications – Track – Switches and crossings for  
Vignole rails – Part 5: Switches

prEN 13232-6 en  
Railway applications – Track – Switches and crossings for  
Vignole rails – Part 6: Fixed common and obtuse crossings

prEN 13232-7 en  
Railway applications – Track – Switches and crossings for  
Vignole rails – Part 7: Crossings with moveable parts

prEN 13232-8 en  
Railway applications – Track – Switches and crossings for  
Vignole rails – Part 8: Expansion devices

prEN 13232-9 en  
Railway applications – Track – Switches and crossings for  
Vignole rails – Part 9: Layouts

EN 14198:2016+A1:2018/prA2 en  
Railway applications – Braking – Requirements for the brake  
system of trains hauled by locomotives  
Željeznički sustav – Kočenje – Zahtjevi za sustave kočenja  
vlakova vučenih lokomotivama

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

prEN ISO 3861 en  
Rubber hoses and hose assemblies for sand and grit  
blasting – Specification (ISO/DIS 3861:2018)

prEN ISO 3949 en  
Plastics hoses and hose assemblies – Textile-reinforced  
types for hydraulic applications – Specification  
(ISO/DIS 3949:2020)  
Plastična crijeva i crijevni sklopovi – Tekstilom ojačane vrste  
za hidraulične primjene – Specifikacija (ISO/DIS 3949:2020)

prEN ISO 7233 en  
Rubber and plastics hoses and hose assemblies  
– Determination of resistance to vacuum (ISO/DIS 7233:2020)  
Gumena i plastična crijeva i crijevni uređaji – Određivanje  
podtlačne čvrstoće (ISO/DIS 7233:2020)

prEN ISO 10619-2 en  
Rubber and plastics hoses and tubing – Measurement of  
flexibility and stiffness – Part 2: Bending tests at sub-ambient  
temperatures (ISO/DIS 10619-2:2020)  
Gumena i plastična crijeva i cijevi – Mjerenje savitljivosti i  
krutosti – 2. dio: Savojna ispitivanja pri temperaturi nižoj od  
temperature okoline (ISO/DIS 10619-2:2020)

### **HZN/TO 533, Kolničke konstrukcije**

prEN 12697-49 en  
Bituminous mixtures – Test methods – Part 49: Determination  
of friction after polishing  
Bitumenske mješavine – Metode ispitivanja – 49. dio:  
Određivanje trenja nakon poliranja

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

prEN ISO 12543-1 en  
Glass in building – Laminated glass and laminated safety  
glass – Part 1: Definitions and description of component parts  
(ISO/DIS 12543-1:2020)  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno  
sigurnosno staklo – 1. dio: Definicije i opis sastavnih dijelova  
(ISO/DIS 12543-1:2020)

prEN ISO 12543-3 en  
Glass in building – Laminated glass and laminated safety  
glass – Part 3: Laminated glass (ISO/DIS 12543-3:2020)  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno  
sigurnosno staklo – 3. dio: Višeslojno staklo (ISO/DIS 12543-3:2020)

prEN ISO 12543-4 en  
Glass in building – Laminated glass and laminated  
safety glass – Part 4: Test methods for durability  
(ISO/DIS 12543-4:2020)  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno  
sigurnosno staklo – 4. dio: Metode ispitivanja za trajnost  
(ISO/DIS 12543-4:2020)

prEN ISO 12543-5 en  
Glass in building – Laminated glass and laminated safety glass – Part 5: Dimensions and edge finishing (ISO/DIS 12543-5:2020)  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 5. dio: Dimenzije i obrada rubova (ISO/DIS 12543-5:2020)

prEN ISO 12543-6 en  
Glass in building – Laminated glass and laminated safety glass – Part 6: Appearance (ISO/DIS 12543-6:2020)  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 6. dio: Izgled (ISO/DIS 12543-6:2020)

prEN 13126-2 en  
Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 2: Window fastener handles  
Građevni okovi – Okovi za prozore i prozorska vrata – Zahtjevi i metode ispitivanja – 2. dio: Ručke za zatvaranje prozora

prEN 13126-7 en  
Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 7: Finger catches  
Građevni okovi – Okovi za prozore i prozorska vrata – Zahtjevi i metode ispitivanja – 7. dio: Zasuni na oprugu (otponci)

prEN 16758 en  
Curtain walling – Determination of the strength of sheared connections – Test method and requirements  
Ovještene fasade – Određivanje čvrstoće posmičnih spojeva – Metoda ispitivanja i zahtjevi

#### **HZN/TO 537, Tehnički crteži, dimenzijske i geometrijske specifikacije, opis proizvoda i odgovarajuća dokumentacija**

prEN ISO 7083 en  
Technical Product Documentation – Symbols used on technical product documentation – Proportions and dimensions (ISO/DIS 7083:2020)  
Tehnička dokumentacija proizvoda – Simboli korišteni u tehničkoj dokumentaciji proizvoda – Proporcije i dimenzije (ISO/DIS 7083:2020)

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

prEN ISO 52120-1 en  
Energy performance of buildings – Contribution of building automation and controls and building management – Part 1: Modules M10-4, 5, 6, 7, 8, 9, 10 (ISO/DIS 52120-1:2020)

#### **HZN/TO 551, Gradnja**

prEN 17473 en  
Building information modelling (BIM) – Data templates for construction objects used in the life cycle of any built asset – Data templates based on harmonised technical specifications under the Construction Products Regulation (CPR)

#### **HZN/TO 556, Osobna zaštitna oprema**

prEN 17479 en  
Hearing protectors – Guidance on selection of individual fit testing methods

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

prEN ISO 5079 en  
Textile fibres – Determination of breaking force and elongation at break of individual fibres (ISO/DIS 5079:2020)  
Tekstilna vlakna – Određivanje prekidne sile i prekidnog istezanja metodom pojedinačnog mjerenja (ISO/DIS 5079:2020)

prEN ISO 21765 en  
Textiles – Determination of fabric deformability by forced mechanical distension (ISO/DIS 21765:2020)

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

prEN 1264-1 en  
Water based surface embedded heating and cooling systems – Part 1: Definitions and symbols  
Ugradbeni sustavi površinskog grijanja i hlađenja vodom – 1. dio: Definicije i simboli

prEN 1264-2 en  
Water based surface embedded heating and cooling systems – Part 2: Floor heating: Prove methods for the determination of the thermal output using calculation and test methods  
Ugradbeni sustavi površinskog grijanja i hlađenja vodom – 2. dio: Podno grijanje: Metode za dokazivanje toplinskog učinka proračunom i metodama ispitivanja

prEN 1264-3 en  
Water based surface embedded heating and cooling systems – Part 3: Dimensioning  
Ugradbeni sustavi površinskog grijanja i hlađenja vodom – 3. dio: Dimenzioniranje

prEN 1264-4 en  
Water based surface embedded heating and cooling systems – Part 4: Installation  
Ugradbeni sustavi površinskog grijanja i hlađenja vodom – 4. dio: Ugradnja

prEN 1264-5 en  
Water based surface embedded heating and cooling systems – Part 5: Heating and cooling surfaces embedded in floors, ceilings and walls – Determination of the thermal output  
Ugradbeni sustavi površinskog grijanja i hlađenja vodom – 5. dio: Površinsko grijanje i hlađenje ugrađeno u podove, stropove i zidove – Određivanje toplinskog učinka

EN ISO 16148:2016/prA1 en  
Gas cylinders – Refillable seamless steel gas cylinders and tubes – Acoustic emission examination (AT) and follow-up ultrasonic examination (UT) for periodic inspection and testing (ISO 16148:2016/DAmD 1:2020)  
Plinske boce – Ponovno punjive bešavne čelične plinske boce i cijevi – Ispitivanje akustičnom emisijom (AT) i prateće ultrazvučno ispitivanje (UT) pri periodičnom pregledu i ispitivanju (ISO 16148:2016/DAmD 1:2020)

#### **HZN/TO 566, Mlijeko i mliječni proizvodi**

prEN ISO 15151 en  
Milk, milk products, infant formula and adult nutritionals – Determination of minerals and trace elements – Inductively coupled plasma atomic emission spectrometry (ICP-AES) method (ISO 15151:2018)  
Mlijeko, mliječni proizvodi, hrana za dojenčad i nutritivno kompletna hrana za odrasle – Određivanje minerala i elemenata u tragovima – Atomska emisijska spektrometrija s induktivno spregnutom plazmom (ICP-AES) (ISO 15151:2018)

prEN ISO 16958 en  
Milk, milk products, infant formula and adult nutritionals – Determination of fatty acids composition – Capillary gas chromatographic method (ISO 16958:2015)  
Mlijeko, mliječni proizvodi, hrana za dojenčad i nutritivno kompletna hrana za odrasle – Određivanje sastava masnih kiselina – Metoda kapilarne plinske kromatografije (ISO 16958:2015)

prEN ISO 20647 en  
Infant formula and adult nutritionals – Determination of total iodine – Inductively coupled plasma mass spectrometry (ICP-MS) (ISO 20647:2015)  
Hrana za dojenčad i nutritivno kompletna hrana za odrasle – Određivanje ukupnog joda – Spektrometrija masa s induktivno spregnutom plazmom (ISO 20647:2015)

prEN ISO 21424 en  
Milk, milk products, infant formula and adult nutritionals – Determination of minerals and trace elements – Inductively coupled plasma mass spectrometry (ICP-MS) method (ISO 21424:2018)  
Mlijeko, mliječni proizvodi, hrana za dojenčad i nutritivno kompletna hrana za odrasle – Određivanje minerala i elemenata u tragovima – Spektrometrija masa s induktivno spregnutom plazmom (ICP-MS) (ISO 21424:2018)

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

prEN ISO 20836 en  
Microbiology of the food chain – Polymerase chain reaction (PCR) for the detection of food-borne pathogens – Thermal performance testing of thermal cyclers (ISO/DIS 20836:2020)  
Mikrobiologija u lancu hrane – Lančana reakcija polimerazom (PCR) za dokazivanje patogena koji se prenose hranom – Ispitivanje radnog učinka toplokružnika (thermal cyclers) (ISO/DIS 20836:2020)

## **HZN/TO 569, Hrana za životinje**

prEN 15784 en  
Animal feeding stuffs: Methods of sampling and analysis – Isolation and enumeration of presumptive *Bacillus* spp.  
Hrana za životinje: Metode uzorkovanja i analize – Izolacija i brojenje suspektnih *Bacillus* spp.

prEN 15786 en  
Animal feeding stuffs: Methods of sampling and analysis – Isolation and enumeration of *Pediococcus* spp.  
Hrana za životinje: Metode uzorkovanja i analize – Izolacija i brojenje *Pediococcus* spp.

prEN 15787 en  
Animal feeding stuffs: Methods of sampling and analysis – Isolation and enumeration of *Lactobacillus* spp.  
Hrana za životinje: Metode uzorkovanja i analize – Izolacija i brojenje *Lactobacillus* spp.

prEN 15788 en  
Animal feeding stuffs: Methods of sampling and analysis – Isolation and enumeration of *Enterococcus* (*E. faecium*) spp.  
Hrana za životinje: Metode uzorkovanja i analize – Izolacija i brojenje *Enterococcus* (*E. faecium*) spp.

prEN 15789 en  
Animal feeding stuffs: Methods of sampling and analysis – Isolation and enumeration of yeast probiotic strains (*Saccharomyces cerevisiae*)  
Hrana za životinje: Metode uzorkovanja i analize – Izolacija i brojenje probiotičkih sojeva kvasca (*Saccharomyces cerevisiae*)

## **HZN/TO 574, Sustavi upravljanja kvalitetom, rizicima, vrijednostima i inovacijama**

ISO 10015:2019 en  
Quality management – Guidelines for competence management and people development  
Upravljanje kvalitetom – Smjernice za upravljanje osposobljenosti i razvojem ljudi

## **HZN/TO E2, Rotacijski strojevi**

prEN IEC 60034-7:2020 en  
Rotating electrical machines – Part 7: Classification of types of construction, mounting arrangements and terminal box position (IM Code) (IEC 60034-7:201X)

prEN IEC 60034-11:2020 en  
Rotating electrical machines – Part 11: Thermal protection (IEC 60034-11:201X)  
Rotacijski električni strojevi – 11. dio: Termička zaštita (IEC 60034-11:201X)

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

prEN IEC 60674-3-1:2020 en  
Plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 1: Biaxially oriented polypropylene (PP) film for capacitors (IEC 60674-3-1:201X)  
Plastične folije za elektrotehničke svrhe – 3. dio: Specifikacije za pojedinačne materijale – 1. list: Dvoosno orijentirana polipropilenska folija za kondenzatore (IEC 60674-3-1:201X)

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

prEN IEC 61803:2020 en  
Determination of power losses in high-voltage direct current (HVDC) converter stations with line-commutated converters (IEC 61803:201X)  
Određivanje gubitaka u pretvaračkim stanicama istosmjerne struje visokog napona (HVDC) s mrežom komutiranim pretvaračima (IEC 61803:201X)

prEN IEC 62040-3:2020 en  
Uninterruptible power systems (UPS) – Part 3: Method of specifying the performance and test requirements (IEC 62040-3:201X)  
Energetski sustavi neprekidnog napajanja (UPS) – 3. dio: Metoda specificiranja svojstava i ispitnih zahtjeva (IEC 62040-3:201X)

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

prEN 50696 en  
Contact Interface for Automated Connection Device

prEN IEC 62196-1:2020 en  
Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 1: General requirements (IEC 62196-1:201X)  
Utikači, utičnice, spojevi i spojnice na vozilima – Kontaktno punjenje električnih vozila – 1. dio: Opći zahtjevi (IEC 62196-1:201X)

prEN IEC 62196-2:2020 en  
Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 2: Dimensional compatibility requirements for AC pin and contact-tube accessories (IEC 62196-2:201X)

prEN IEC 62196-3:2020 en  
Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 3: Dimensional compatibility and interchangeability requirements for DC and AC/DC pin and contact-tube vehicle couplers (IEC 62196-3:201X)  
Utikači, utičnice i spojnice za vozila – Kontaktno punjenje električnih vozila – 3. dio: Zahtjevi za usklađenost dimenzija i zamjenjivost spojnica za vozila sa šiljcima i kontaktnim cjevčicama namijenjenih za istosmjernu i kombinirano istosmjernu i izmjeničnu struju (IEC 62196-3:201X)

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

EN 60061-1:1993/prA61:2020 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamps Caps (IEC 60061-1:1969/am61:201X)  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am61:201X)

EN 60061-2:1993/prA57:2020 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/am57:201X)  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969/am57:201X)

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

prEN IEC 61970-600-1:2020 en  
Energy management system application program interface (EMS-API) – Part 600-1: Common Grid Model Exchange Specification (CGMES) – Structure and rules (IEC 61970-600-1:201X)

prEN IEC 61970-600-2:2020 en  
Energy management system application program interface (EMS-API) – Part 600-2: Common Grid Model Exchange Specification (CGMES) – Exchange profiles specification (IEC 61970-600-2:201X)

prEN IEC 62325-451-10:2020 en  
Framework for energy market communications – Part 451-10: Profiles for energy consumption data (“My Energy Data”) (IEC 62325-451-10:201X)

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

EN 60335-2-2:2010/prAC en  
Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances  
Kućanski i slični električni aparati – Sigurnost – Dio 2-2: Posebni zahtjevi za usisavače prašine i usisavače vode

EN 60335-2-5:2015/prA1 en  
Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers  
Kućanski i slični električni aparati – Sigurnost – Dio 2-5: Posebni zahtjevi za perilice posuđa

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

prEN IEC 63120:2020 en  
Refurbishment of medical electrical equipment, medical electrical systems and sub-assemblies and reuse of components as part of the extended life-cycle (IEC 63120:201X)

#### **HZN/TO E64, Električne instalacije i zaštita od električnog udara**

prHD 60364-5-57:2020 en  
Low-voltage electrical installations – Part 5: Selection and erection of electrical equipment – Clause 57: Erection of stationary secondary batteries (IEC 60364-5-57:201X)

prHD 60364-7-716:2020 en  
Low-voltage electrical installations – Part 7-716: Requirements for special installations or locations – DC power distribution over Information Technology Cable Infrastructure (IEC 60364-7-716:201X)

#### **HZN/TO E65, Mjerenje, vođenje i automatizacija industrijskih procesa**

prEN IEC 61010-2-202:2020 en  
Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-202: Particular requirements for electrically operated valve actuators (IEC 61010-2-202:201X)  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-202: Posebni zahtjevi za električne aktuatorne ventila (IEC 61010-2-202:201X)

prEN IEC 61784-3:2020 en  
Industrial communication networks – Profiles – Part 3: Functional safety fieldbuses – General rules and profile definitions (IEC 61784-3:201X)  
Industrijske komunikacijske mreže – Profili – 3. dio: Industrijske sabirnice (fieldbus) za funkcijsku sigurnost – Opća pravila i definicije profila (IEC 61784-3:201X)

#### **HZN/TO E106, Elektromagnetska polja u ljudskome okolišu**

EN 50360:2017/prA1 en  
Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear  
Norma proizvoda za pokazivanje sukladnosti bežičnih komunikacijskih uređaja s temeljnim ograničenjima i graničnim vrijednostima izloženosti, koja se odnosi na izloženost ljudi elektromagnetskim poljima u frekvencijskom području od 300 MHz do 6 GHz, uređaji koji se koriste u blizini uha

EN 50566:2017/prA1 en  
Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body  
Norma proizvoda za pokazivanje sukladnosti bežičnih komunikacijskih uređaja s temeljnim ograničenjima i graničnim vrijednostima izloženosti, koja se odnosi na izloženost ljudi elektromagnetskim poljima u frekvencijskom području od 30 MHz do 6 GHz: ručni uređaji i uređaji postavljeni uz tijelo u neposrednoj blizini tijela

#### **HZN/TO E112, Procjena i značajke električnih izolacijskih materijala i sustava**

prEN IEC 60216-3:2020 en  
Electrical insulating materials – Thermal endurance properties – Part 3: Instructions for calculating thermal endurance characteristics (IEC 60216-3:201X)  
Električni izolacijski materijali – Svojstva toplinske izdržljivosti – 3. dio: Upute za izračunavanje karakteristika toplinske izdržljivosti (IEC 60216-3:201X)

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

EN ISO 10874:2012/prA1 en  
Resilient, textile and laminate floor coverings – Classification – Amendment 1: Elimination of class 22+ (ISO 10874:2009/DAMd 1:2020)

EN ISO 20326:2018/prA1 en  
Resilient floor coverings – Specification for floor panels/assembly for loose laying – Amendment 1: Requirements depending on the substrate (ISO 20326:2016/DAMd 1:2020)

#### **HZN/TU C1, Kemikalije, kemijsko inženjerstvo, poljoprivredni i prehrambeni proizvodi 1**

prEN ISO 3219-2 en  
Rheology – Part 2: General principles of rotational and oscillatory rheometry (ISO/DIS 3219-2:2020)  
Reologija – 2. dio: Opća načela rotacijske i oscilacijske reometrije (ISO/DIS 3219-2:2020)

prEN ISO 3262-19 en  
Extenders – Specifications and methods of test – Part 19: Precipitated silica (ISO/DIS 3262-19:2020)  
Punila – Specifikacije i metode ispitivanja – 19. dio: Istaložen silicijev oksid (ISO/DIS 3262-19:2020)

prEN ISO 3262-20 en  
Extenders – Specifications and methods of test – Part 20: Fumed silica (ISO/DIS 3262-20:2020)  
Punila – Specifikacije i metode ispitivanja – 20. dio: Pirogeni silicijev oksid (ISO/DIS 3262-20:2020)

prEN 17477 en  
Algae and algae products – Identification of the biomass of microalgae, macroalgae, cyanobacteria and Labyrinthulomycetes – Detection and identification with morphological and/or molecular methods  
Alge i proizvodi od algi – Identifikacija biomase mikroalgi, makroalgi, cijanobakterija i Labyrinthulomycetes – Dokazivanje i identifikacija morfološkim i/ili molekularnim metodama

prEN ISO/ASTM 52904 en  
Additive manufacturing – Process characteristics and performance – Practice for metal powder bed fusion process to meet critical applications (ISO/ASTM 52904:2019)  
Aritivna proizvodnja – Procesne karakteristike i zahtjevi – Praksa za proces stapanja praškastih slojeva koja ispunjava zahtjeve kritičnih primjena (ISO/ASTM 52904:2019)

#### **HZN/TU I2, Strojarstvo 2**

prEN 746-1 en  
Industrial thermoprocessing equipment – Part 1: Common safety requirements for industrial thermoprocessing equipment  
Oprema za toplinske postupke u industriji – 1. dio: Opći sigurnosni zahtjevi za opremu za toplinske postupke

prEN 746-3 en  
Industrial thermoprocessing equipment – Part 3: Safety requirements for the generation and use of atmosphere gases  
Oprema za toplinske postupke u industriji – 3. dio: Sigurnosni zahtjevi za proizvodnju i upotrebu atmosferskih plinova

prEN 746-11 en  
Industrial thermoprocessing equipment – Part 11: Safety requirements for protective systems

prEN 15061 en  
Safety of machinery – Safety requirements for strip processing line machinery and equipment  
Sigurnost strojeva – Sigurnosni zahtjevi za strojeve i opremu proizvodne linije za izradu traka

prEN 17449 en  
Safety of machinery – Safety requirements to finishing lines for metal strip

## HZN/TU M1, *Metalni materijali 1*

prEN ISO 28080 en  
Hardmetals – Abrasion tests for hardmetals (ISO/DIS 28080:2020)

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

prEN ISO 10477 en  
Dentistry – Polymer-based crown and veneering materials (ISO/DIS 10477:2020)  
Stomatologija – Materijali na bazi polimera za izradu krunica i ljuskica (ISO/DIS 10477:2020)

prEN ISO 16061 en  
Instruments for use in association with non-active surgical implants – General requirements (ISO/DIS 16061:2020)  
Instrumenti za upotrebu s neaktivnim kirurškim implantatima – Opći zahtjevi (ISO/DIS 16061:2020)

prEN ISO 22748 en  
Absorbent incontinence aids for urine and/or faeces – Terminology and classification (ISO/DIS 22748:2020)  
Upijajući proizvodi za urinarnu i/ili fekalnu inkontinenciju – Nazivlje i razredba (ISO/DIS 22748:2020)

prEN ISO 23402-1 en  
Dentistry – Portable dental equipment for use in non-permanent healthcare environment – Part 1: General requirements (ISO/DIS 23402-1:2020)  
Stomatologija – Prijenosna stomatološka oprema za primjenu u privremenim okruženjima zdravstvene skrbi – 1. dio: Opći zahtjevi (ISO/DIS 23402-1:2020)

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

EN 3155-018:2020 en  
Aerospace series – Electrical contacts used in elements of connection – Part 018: Contacts, electrical, male, type A, crimp, class S – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 018: Kontakti, električni, muški, tip A, za krimpiranje, razreda S – Norma za proizvod

prEN ISO 11532 en  
Aircraft ground equipment – Graphical symbols (ISO 11532:2018)

prEN 16603-20 en  
Space engineering – Electrical and electronic

prEN 16603-32-01 en  
Space engineering – Fracture control  
Svemirsko inženjerstvo – Kontrola lomova

## HZN/TU U1, *Opća elektrotehnika 1*

prEN IEC 60695-2-12:2020 en  
Fire hazard testing – Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials (IEC 60695-2-12:201X)  
Ispitivanje na opasnost od požara – Dio 2-12: Metode ispitivanja na bazi užarene/vruće žice – Metoda ispitivanja indeksa zapaljivosti materijala užarenom žicom (GWFI) (IEC 60695-2-12:201X)

## HZN/TU V1, *Elektronika 1*

prEN IEC 61010-2-020:2020 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-020: Particular requirements for laboratory centrifuges (IEC 61010-2-020:201X)  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-020: Posebni zahtjevi za laboratorijske centrifuge (IEC 61010-2-020:201X)

prEN IEC 61010-2-130:2020 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Particular requirements for equipment intended to be used in educational establishments by children (IEC 61010-2-130:201X)

prEN IEC 61280-4-5:2020 en  
Fibre-optic communication subsystem test procedures – Part 4-5: Installed cabling plant – Attenuation measurement of MPO terminated fibre optic cabling plant using test equipment with MPO interfaces (IEC 61280-4-5:201X)

prEN IEC 61760-3:2020 en  
Surface mounting technology – Part 3: Standard method for the specification of components for through hole reflow (THR) soldering (IEC 61760-3:201X)

prEN IEC 62433-6:2020 en  
EMC IC modelling – Part 6: Models of integrated circuits for Pulse immunity behavioural simulation – Conducted Pulse Immunity (ICIM-CPI) (IEC 62433-6:201X)

prEN IEC 63171:2020 en  
Connectors for Electrical and Electronic Equipment – Shielded or unshielded free and fixed connectors for balanced single-pair data transmission with current carrying capacity, General requirements and tests (IEC 63171:201X)

prEN IEC 63182-1:2020 en  
Magnetic powder cores – Guidelines on dimensions and the limits of surface irregularities – Part 1: General specification (IEC 63182-1:201X)

## HZN/TU W1, *Energetska elektrotehnika 1*

prEN IEC 60704-1:2020 en  
Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements (IEC 60704-1:201X)  
Kućanski i slični električni aparati – Ispitna pravila za određivanje uzdušne buke – 1. dio: Opći zahtjevi (IEC 60704-1:201X)

EN 62133-2:2017/prA1:2020 en  
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems (IEC 62133-2:2017/am1:201X)  
Sekundarni članci i baterije koje sadrže alkalne ili druge nekisele elektrolite – Sigurnosni zahtjevi za prijenosne zapečaćene sekundarne članke i baterije napravljene od njih, za primjenu u prijenosnim uređajima – 2. dio: sustavi s litijem (IEC 62133-2:2017/am1:201X)

FprEN IEC 62841-3-9:2019/FprAA:2020 en  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 3-9: Posebni zahtjevi za prijenosne kutne pile

prEN IEC 62841-4-5:2020 en  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-5: Particular requirements for grass shears (IEC 62841-4-5:201X)

## HZN/TU Z1, *Informatika 1*

prEN ISO/IEC 27010 en  
Information technology – Security techniques – Information security management for inter-sector and inter-organizational communications (ISO/IEC 27010:2015)

prEN ISO/IEC 27011 en  
Information technology – Security techniques – Code of practice for Information security controls based on ISO/IEC 27002 for telecommunications organizations (ISO/IEC 27011:2016)

prEN ISO/IEC 27018 en  
Information technology – Security techniques – Code of practice for protection of personally identifiable information (PII) in public clouds acting as PII processors (ISO/IEC 27018:2019)

prEN ISO/IEC 29147 en  
Information technology – Security techniques – Vulnerability disclosure (ISO/IEC 29147:2018)

prEN ISO/IEC 30111 en  
Information technology – Security techniques – Vulnerability handling processes (ISO/IEC 30111:2019)

## 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 536:2012 en  
Papir i karton – Određivanje gramature (ISO 536:2012; EN ISO 536:2012)  
Paper and board – Determination of grammage (ISO 536:2012; EN ISO 536:2012)  
- zamijenjena s: HRN EN ISO 536:2020

### HZN/TO 8, *Brodogradnja*

- HRN EN ISO 10240:2008 en  
Mala plovila – Korisnički priručnik (ISO 10240:2004; EN ISO 10240:2004)  
Small craft – Owner's manual (ISO 10240:2004; EN ISO 10240:2004)  
- zamijenjena s: HRN EN ISO 10240:2020
- HRN EN ISO 10240:2008/A1:2015 en  
Mala plovila – Korisnički priručnik (ISO 10240:2004/Amd 1:2015; EN ISO 10240:2004/A1:2015)  
Small craft – Owner's manual (ISO 10240:2004/Amd 1:2015; EN ISO 10240:2004/A1:2015)  
- zamijenjena s: HRN EN ISO 10240:2020

### HZN/TO 37, *Terminologija*

- HRN ISO 30042:2010 en  
Sustavi upravljanja terminologijom, znanjem i sadržajem – TermBase eXchange (TBX) (ISO 30042:2008)  
Systems to manage terminology, knowledge and content – TermBase eXchange (TBX) (ISO 30042:2008)  
- zamijenjena s: HRN ISO 30042:2020

### HZN/TO 46, *Bibliotekarstvo, dokumentacija i informacije*

- HRN ISO 3901:2002 en  
Informacije i dokumentacija – Međunarodni standardni kod za snimke (ISRC) (ISO 3901:2001)  
Information and documentation – International Standard Recording Code (ISRC) (ISO 3901:2001)  
- zamijenjena s: HRN ISO 3901:2020
- HRN ISO 8126:2010 en  
Mikrografija – Umnažanje filma, srebrni, diazo i mjehuričasti – Optička gustoća – Specifikacije i mjerenje (ISO 8126:2000)  
Micrographics – Duplicating film, silver, diazo and vesicular – Visual density – Specifications and measurement (ISO 8126:2000)  
- zamijenjena s: HRN ISO 8126:2020
- HRN ISO 15511:2014 en  
Informacije i dokumentacija – Međunarodni standardni identifikator za knjižnice i srodne ustanove (ISIL) (ISO 15511:2011)  
Information and documentation – International standard identifier for libraries and related organizations (ISIL) (ISO 15511:2011)  
- zamijenjena s: HRN ISO 15511:2020
- HRN ISO 30301:2017 en  
Informacije i dokumentacija – Sustavi upravljanja zapisima – Zahtjevi (ISO 30301:2011)  
Information and documentation – Management systems for records – Requirements (ISO 30301:2011)  
- zamijenjena s: HRN ISO 30301:2020

### HZN/TO 120, *Koža i obuća*

- HRN EN ISO 17076-1:2012 en  
Koža – Određivanje otpornosti na habanje – 1. dio: Metoda po Taberu (ISO 17076-1:2012; EN ISO 17076-1:2012)  
Leather – Determination of abrasion resistance – Part 1: Taber method (ISO 17076-1:2012; EN ISO 17076-1:2012)  
- zamijenjena s: HRN EN ISO 17076-1:2020

### HZN/TO 134, *Gnojiva i poboljšivači tla*

- HRN EN 16087-1:2012 en  
Poboljšivači tla i supstrati – Određivanje aerobne biološke aktivnosti – 1. dio: Brzina unosa kisika (OUR) (EN 16087-1:2011)  
Soil improvers and growing media – Determination of the aerobic biological activity – Part 1: Oxygen uptake rate (OUR) (EN 16087-1:2011)  
- zamijenjena s: HRN EN 16087-1:2020

### HZN/TO 217, *Kozmetika*

- HRN EN ISO 24444:2011 en  
Kozmetika – Metode određivanja zaštitnih faktora – In vivo određivanje faktora zaštite od sunca (SPF) (ISO 24444:2010; EN ISO 24444:2010)  
Cosmetics – Sun protection test methods – In vivo determination of the sun protection factor (SPF) (ISO 24444:2010; EN ISO 24444:2010)  
- zamijenjena s: HRN EN ISO 24444:2020

### HZN/TO 221, *Geosintetici*

- HRN EN ISO 12956:2010 en  
Geotekstili i proizvodi srodni s geotekstilom – Određivanje karakteristične veličine otvora (ISO 12956:2010; EN ISO 12956:2010)  
Geotextiles and geotextile-related products – Determination of the characteristic opening size (ISO 12956:2010; EN ISO 12956:2010)  
- zamijenjena s: HRN EN ISO 12956:2020

### HZN/TO 502, *Plinski uređaji*

- HRN EN 416-1:2009 en  
Plinske ovisne nekućanske tamno-zračeće grijalice s jednim plamenikom s ventilatorom – 1. dio: Sigurnost (EN 416-1:2009)  
Single burner gas-fired overhead radiant tube heaters for non-domestic use – Part 1: Safety (EN 416-1:2009)  
- zamijenjena s: HRN EN 416:2020
- HRN EN 416-2:2008 en  
Plinske nadgradbene infracrvene grijalice svijetlog zračenja s jednim plamenikom za nekućansku uporabu – 2. dio: Racionalno korištenje energije (EN 416-2:2006)  
Single burner gas-fired overhead radiant tube heaters for non-domestic use – Part 2: Rational use of energy (EN 416-2:2006)  
- zamijenjena s: HRN EN 416:2020
- HRN EN 676:2008 en  
Automatski plinski plamenici s ventilatorima (EN 676:2003+A2:2008+AC:2008)  
Automatic forced draught burners for gaseous fuels (EN 676:2003+A2:2008+AC:2008)  
- zamijenjena s: HRN EN 676:2020
- HRN EN 777-1:2009 en  
Plinski ovisni nekućanski tamno-zračeći cijevni sustavi grijanja s više plamenika s ventilatorima – 1. dio: Sustav D – Sigurnost (EN 777-1:2009)  
Multi-burner gas-fired overhead radiant tube heater systems for non-domestic use – Part 1: System D – Safety (EN 777-1:2009)  
- zamijenjena s: HRN EN 416:2020
- HRN EN 777-2:2009 en  
Plinski ovisni nekućanski tamno-zračeći cijevni sustavi grijanja s više plamenika s ventilatorima – 2. dio: Sustav E – Sigurnost (EN 777-2:2009)  
Multi-burner gas-fired overhead radiant tube heater systems for non-domestic use – Part 2: System E – Safety (EN 777-2:2009)  
- zamijenjena s: HRN EN 416:2020
- HRN EN 777-3:2009 en  
Plinski ovisni nekućanski tamno-zračeći cijevni sustavi grijanja s više plamenika s ventilatorima – 3. dio: Sustav F – Sigurnost (EN 777-3:2009)  
Multi-burner gas-fired overhead radiant tube heater systems for non-domestic use – Part 3: System F – Safety (EN 777-3:2009)  
- zamijenjena s: HRN EN 416:2020

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

HRN EN ISO 643:2013 en  
Čelici – Mikrografsko određivanje prividne veličine zrna (ISO 643:2012; EN ISO 643:2012)  
Steels – Micrographic determination of the apparent grain size (ISO 643:2012; EN ISO 643:2012)  
- zamijenjena s: HRN EN ISO 643:2020

HRN EN ISO 2106:2012 en  
Anodizacija aluminija i njegovih legura – Određivanje mase po jedinici površine (površinska gustoća) prevlaka dobivenih anodnom oksidacijom – Gravimetrijska metoda (ISO 2106:2011; EN ISO 2106:2011)  
Anodizing of aluminium and its alloys – Determination of mass per unit area (surface density) of anodic oxidation coatings – Gravimetric method (ISO 2106:2011; EN ISO 2106:2011)  
- zamijenjena s: HRN EN ISO 2106:2020

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

HRN EN ISO 11844-3:2008 en  
Korozija metala i legura – Razredba niske korozivnosti atmosfera unutrašnjeg prostora – 3. dio: Mjerenje okolišnih parametara koji utječu na korozivnost unutrašnjeg prostora (ISO 11844-3:2006; EN ISO 11844-3:2008)  
Corrosion of metals and alloys – Classification of low corrosivity of indoor atmospheres – Part 3: Measurement of environmental parameters affecting indoor corrosivity (ISO 11844-3:2006; EN ISO 11844-3:2008)  
- zamijenjena s: HRN EN ISO 11844-3:2020

HRN EN ISO 14713-2:2010 en  
Cinkove prevlake – Smjernice i preporuke za zaštitu od korozije konstrukcija iz željeznog lijeva i čelika – 2. dio: Vruće pocinčavanje (ISO 14713-2:2009; EN ISO 14713-2:2009)  
Zinc coatings – Guidelines and recommendations for the protection against corrosion of iron and steel in structures – Part 2: Hot dip galvanizing (ISO 14713-2:2009; EN ISO 14713-2:2009)  
- zamijenjena s: HRN EN ISO 14713-2:2020

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

HRN EN 14848:2007 en  
Spremnici za aerosole – Metalni spremnici s otvorom 25,4 mm – Dimenzije tijela ventila (EN 14848:2005)  
Aerosol containers – Metal containers with 25,4 mm aperture – Dimensions of valve cups (EN 14848:2005)  
- zamijenjena s: HRN EN 14848:2020

HRN EN 14848:2007/Ispr.1:2008 en  
Spremnici za aerosole – Metalni spremnici s otvorom 25,4 mm – Dimenzije tijela ventila (EN 14848:2005/AC:2007)  
Aerosol containers – Metal containers with 25,4 mm aperture – Dimensions of valve cups (EN 14848:2005/AC:2007)  
- zamijenjena s: HRN EN 14848:2020

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

HRN 1114:2002 hr  
Prometni znakovi – Tehnički zahtjevi  
Traffic signs – Technical requirements  
- bez zamjene

HRN 1115:2002 hr  
Prometni znakovi – Znakovi opasnosti – Oblikovanje znakova  
Road signs – Danger warning signs – Design of signs  
- bez zamjene

HRN 1116:2002 hr  
Prometni znakovi – Znakovi izričitih naredaba – Oblikovanje znakova  
Road signs – Prohibitory or restrictive signs – Design of signs  
- bez zamjene

HRN 1117:2002 hr  
Prometni znakovi – Znakovi obavijesti – Oblikovanje znakova  
Road signs – Informative signs – Design of signs  
- bez zamjene

HRN 1118:2002 hr  
Prometni znakovi – Znakovi obavijesti za vođenje prometa – Oblikovanje znakova  
Traffic signs – Informative advance direction signs – Design  
- bez zamjene

HRN 1119:2002 hr  
Prometni znakovi – Dopunske ploče – Oblikovanje znakova  
Traffic signs – Additional panels – Design  
- bez zamjene

HRN 1120:2004 hr  
Prometni promjenjivi znakovi – Nekontinuirani – Dimenzije  
Variable message signs – Discontinuous – Dimensions  
- bez zamjene

HRN 1126:2002 hr  
Prometni znakovi – Oprema za ceste – Oblikovanje znakova  
Traffic signs – Road furniture – Design  
- bez zamjene

HRN 1127:2002 hr  
Prometni znakovi – Branici, polubranici i svjetlosne oznake za označivanje prijelaza ceste preko željezničke pruge – Oblikovanje znakova  
Traffic signs – Barriers and getes at level crossings/signals and retroreflective markings – Design  
- bez zamjene

HRS CEN/TS 1317-8:2012 en  
Zaštitni cestovni sustavi – 8. dio: Cestovni sustavi za motocikliste koji smanjuju utjecaj težine motociklista u sudaru sa sigurnosnom preprekom (CEN/TS 1317-8:2012)  
Road restraint systems – Part 8: Motorcycle road restraint systems which reduce the impact severity of motorcyclist collisions with safety barriers (CEN/TS 1317-8:2012)  
- zamijenjena s: HRS CEN/TS 17342:2020

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

HRN EN 15153-1:2016 en  
Željeznički sustav – Uređaji za vanjska vizualna i zvučna upozorenja za vlakove – 1. dio: Glavna i pozicijska svjetla i završni signali (EN 15153-1:2013+A1:2016)  
Railway applications – External visible and audible warning devices for trains – Part 1: Head, marker and tail lamps (EN 15153-1:2013+A1:2016)  
- zamijenjena s: HRN EN 15153-1:2020

HRN EN 15153-2:2013 en  
Željeznički sustav – Uređaji za vanjska vizualna i zvučna upozorenja za vlakove – 2. dio: Upozoravajuće sirene (EN 15153-2:2013)  
Railway applications – External visible and audible warning devices for trains – Part 2: Warning horns (EN 15153-2:2013)  
- zamijenjena s: HRN EN 15153-2:2020

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

HRN EN 13206:2017 en  
Plastika – Plastomerni pokrivni filmovi za uporabu u poljoprivredi i vrtlarstvu (EN 13206:2017)  
Plastics – Thermoplastic covering films for use in agriculture and horticulture (EN 13206:2017)  
- zamijenjena s: HRN EN 13206:2020

## **HZN/TO 537, Tehnički crteži, dimenzijske i geometrijske specifikacije, opis proizvoda i odgovarajuća dokumentacija**

HRN EN ISO 6414:2008 en  
Tehnički crteži dijelova od stakla (ISO 6414:1982; EN ISO 6414:1994)  
Technical drawings for glassware (ISO 6414:1982; EN ISO 6414:1994)  
- zamijenjena s: HRN EN ISO 6414:2020

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

HRN EN 13321-2:2013 en  
Otvorena podatkovna komunikacija u automatizaciji zgrada, nadzor i upravljanje zgradama – Elektronički sustavi za obiteljske kuće i zgrade – 2. dio: KNXnet/IP komunikacije (EN 13321-2:2012)  
Open Data Communication in Building Automation, Controls and Building Management – Home and Building Electronic Systems – Part 2: KNXnet/IP Communication (EN 13321-2:2012)  
- zamijenjena s: HRN EN ISO 22510:2020

## **HZN/TO 543, Poštanske usluge**

HRN EN 14012:2011 hr-en  
Poštanske usluge – Kvaliteta usluge – Načela rukovanja pritužbama (EN 14012:2008)  
Postal services – Quality of service – Complaints handling principles (EN 14012:2008)  
- zamijenjena s: HRN EN 14012:2020

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

HRN EN ISO 11607-1:2017 en  
Ambalaža za završno sterilizirane medicinske proizvode – 1. dio: Zahtjevi za materijale, sustave sterilne obloge i sustave ambalaže (ISO 11607-1:2006; EN ISO 11607-1:2017)  
Packaging for terminally sterilized medical devices – Part 1: Requirements for materials, sterile barrier systems and packaging systems (ISO 11607-1:2006; EN ISO 11607-1:2017)  
- zamijenjena s: HRN EN ISO 11607-1:2020

HRN EN ISO 11607-2:2017 en  
Ambalaža za završno sterilizirane medicinske proizvode – 2. dio: Vrednovanje zahtjeva za oblikovanje, lijepljenje i postupke sastavljanja (ISO 11607-2:2006; EN ISO 11607-2:2017)  
Packaging for terminally sterilized medical devices – Part 2: Validation requirements for forming, sealing and assembly processes (ISO 11607-2:2006; EN ISO 11607-2:2017)  
- zamijenjena s: HRN EN ISO 11607-2:2020

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

HRN EN 267:2012 en  
Automatski pretlačni plamenici za kapljevita goriva (EN 267:2009+A1:2011)  
Automatic forced draught burners for liquid fuels (EN 267:2009+A1:2011)  
- zamijenjena s: HRN EN 267:2020

## **HZN/TO 566, Mlijeko i mliječni proizvodi**

HRN EN ISO 16297:2014 en  
Mlijeko – Broj bakterija – Protokol za procjenu alternativnih metoda (ISO 16297:2013; EN ISO 16297:2014)  
Milk – Bacterial count – Protocol for the evaluation of alternative methods (ISO 16297:2013; EN ISO 16297:2014)  
- zamijenjena s: HRN EN ISO 16297:2020

## **HZN/TO 574, Sustavi upravljanja kvalitetom, rizicima, vrijednostima i inovacijama**

HRN EN 12973:2008 en  
Upravljanje vrijednostima (EN 12973:2000)  
Value management (EN 12973:2000)  
- zamijenjena s: HRN EN 12973:2020

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

HRN EN ISO 10581:2014 en  
Elastične podne obloge – Homogene poli(vinil-kloridne) podne obloge – Specifikacija (ISO 10581:2011; EN ISO 10581:2013)  
Resilient floor coverings – Homogeneous poly(vinyl chloride) floor covering – Specification (ISO 10581:2011; EN ISO 10581:2013)  
- zamijenjena s: HRN EN ISO 10581:2020

## **HZN/TU C1, Kemikalije, kemijsko inženjerstvo, poljoprivredni i prehrambeni proizvodi 1**

HRN EN 14103:2011 en  
Derivati masti i ulja – Metilni esteri masnih kiselina – Određivanje estera i sadržaja metilnih estera linolenske kiseline (EN 14103:2011)  
Fat and oil derivatives – Fatty Acid Methyl Esters (FAME) – Determination of ester and linolenic acid methyl ester contents (EN 14103:2011)  
- zamijenjena s: HRN EN 14103:2020

HRN EN ISO 15091:2013 en  
Boje i lakovi – Određivanje električne provodljivosti i otpora (ISO 15091:2012; EN ISO 15091:2012)  
Paints and varnishes – Determination of electrical conductivity and resistance (ISO 15091:2012; EN ISO 15091:2012)  
- zamijenjena s: HRN EN ISO 15091:2020

HRN EN ISO 15184:2013 en  
Boje i lakovi – Određivanje tvrdoće filma ispitivanjem s olovkom (ISO 15184:2012; EN ISO 15184:2012)  
Paints and varnishes – Determination of film hardness by pencil test (ISO 15184:2012; EN ISO 15184:2012)  
- zamijenjena s: HRN EN ISO 15184:2020

## **HZN/TU I2, Strojstvo 2**

HRN EN ISO 11665-3:2015 en  
Measurement of radioactivity in the environment – Air: radon-222 – Part 3: Spot measurement method of the potential alpha energy concentration of its short-lived decay products (ISO 11665-3:2012; EN ISO 11665-3:2015)  
- zamijenjena s: HRN EN ISO 11665-3:2020

HRN EN ISO 11665-5:2015 en  
Measurement of radioactivity in the environment – Air: radon-222 – Part 5: Continuous measurement method of the activity concentration (ISO 11665-5:2012; EN ISO 11665-5:2015)  
- zamijenjena s: HRN EN ISO 11665-5:2020

HRN EN ISO 11665-6:2015 en  
Measurement of radioactivity in the environment – Air: radon-222 – Part 6: Spot measurement method of the activity concentration (ISO 11665-6:2012; EN ISO 11665-6:2015)  
- zamijenjena s: HRN EN ISO 11665-6:2020

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

HRN EN ISO 8536-4:2013 en  
Oprema za infuziju za medicinsku primjenu – 4. dio: Pribori za infuziju za jednokratnu upotrebu, s gravitacijskim punjenjem (ISO 8536-4:2010+Amd 1:2013; EN ISO 8536-4:2013+A1:2013)  
Infusion equipment for medical use – Part 4: Infusion sets for single use, gravity feed (ISO 8536-4:2010+Amd 1:2013; EN ISO 8536-4:2013+A1:2013)  
- zamijenjena s: HRN EN ISO 8536-4:2020

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

HRN EN 2997-011:2011 en  
Nizovi o zrakoplovstvu – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatru ili neotporne na vatru, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – 011. dio: Prazne utičnice – Norma za proizvod (EN 2997-011:2010)  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 011: Dummy receptacle – Product standard (EN 2997-011:2010)  
- zamijenjena s: HRN EN 2997-011:2020

HRN EN 3155-017:2008 en  
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 017. dio: Kontakti, električni, relejna osnova, ženski, tip A, za krimpiranje, razreda P – Norma za proizvod (EN 3155-017:2006)  
Aerospace series – Electrical contacts used in elements of connection – Part 017: Contacts, electrical, relay base, female, type A, crimp, class P – Product standard (EN 3155-017:2006)  
- zamijenjena s: HRN EN 3155-017:2020

HRN EN 3155-019:2008 en  
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 019. dio: Kontakti, električni, ženski, tip A, za krimpiranje, razreda S – Norma za proizvod (EN 3155-019:2005)  
Aerospace series – Electrical contacts used in elements of connection – Part 019: Contacts, electrical, female, type A, crimp, class S – Product standard (EN 3155-019:2005)  
- zamijenjena s: HRN EN 3155-019:2020

HRN EN 4604-007:2008 en  
Nizovi o zrakoplovstvu – Kabel, električni, za prijenos signala – 007. dio: Kabel, koaksijalni 50 Ω, 200 °C, tip WN – Norma za proizvod (EN 4604-007:2007)  
Aerospace series – Cable, electrical, for signal transmission – Part 007: Cable, coaxial 50 Ω, 200 °C, type WN – Product standard (EN 4604-007:2007)  
- zamijenjena s: HRN EN 4604-007:2020



HRN EN 4681-001:2017 en  
Zrakoplovstvo – Kabeli, električni, opće namjene, s aluminijskim vodičem ili aluminijskim vodičem presvučenim bakrom – Dio 001: Tehnička specifikacija (EN 4681-001:2017)  
Aerospace series – Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium – Part 001: Technical Specification (EN 4681-001:2017)  
- zamijenjena s: HRN EN 4681-001:2020

HRN EN 4707:2014 en  
Nizovi o zrakoplovstvu – Kiselo dekapiranje aluminija i legura aluminija bez šesterovalentnog kroma (EN 4707:2014)  
Aerospace series – Acid pickling of aluminium and aluminium alloy without hexavalent chromium (EN 4707:2014)  
- zamijenjena s: HRN EN 4707:2020

## 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 172, *Optika i optički instrumenti*

#### • umjesto

HRN EN ISO 11551:2019  
Optika i fotonika – Laseri i pridružena oprema – Ispitna metoda za utvrđivanje koeficijenta apsorpcije laserskih optičkih komponenti (ISO 11551:2019; EN ISO 11551:2019)  
Optics and photonics – Lasers and laser-related equipment – Test method for absorbance of optical laser components (ISO 11551:2019; EN ISO 11551:2019)

#### • treba biti

HRN EN ISO 11551:2019  
Optika i fotonika – Laseri i pridružena oprema – Ispitna metoda za utvrđivanje koeficijenta apsorpcije laserskih optičkih komponenti (ISO 11551:2019, **ispravljena verzija 2020-01**; EN ISO 11551:2019)  
Optics and photonics – Lasers and laser-related equipment – Test method for absorbance of optical laser components (ISO 11551:2019, **Corrected version 2020-01**; EN ISO 11551:2019)

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

#### • umjesto

HRN EN ISO 3175-2:2018  
Tekstil – Profesionalna njega, kemijsko čišćenje i mokro čišćenje tkanina i odjevnih predmeta – 2. dio: Postupak ispitivanja učinka čišćenja i oplemenjivanja tetrakloretilenom (ISO 3175-2:2017; EN ISO 3175-2:2018)  
Textiles – Professional care, drycleaning and wetcleaning of fabrics and garments – Part 2: Procedure for testing performance when cleaning and finishing using tetrachloroethene (ISO 3175-2:2017; EN ISO 3175-2:2018)

#### • treba biti

HRN EN ISO 3175-2:2018  
Tekstil – Profesionalna njega, kemijsko čišćenje i mokro čišćenje tkanina i odjevnih predmeta – 2. dio: Postupak ispitivanja učinka čišćenja i oplemenjivanja tetrakloretilenom (ISO 3175-2:2017, **ispravljena verzija 2019-12**; EN ISO 3175-2:2018)  
Textiles – Professional care, drycleaning and wetcleaning of fabrics and garments – Part 2: Procedure for testing performance when cleaning and finishing using tetrachloroethene (ISO 3175-2:2017, **Corrected version 2019-12**; EN ISO 3175-2:2018)

#### • umjesto

HRN EN ISO 3175-3:2018  
Tekstil – Profesionalna njega, kemijsko čišćenje i mokro čišćenje plošnih tekstila i odjevnih predmeta – 3. dio: Postupak za ispitivanje djelovanja ugljikovodikovih otapala pri čišćenju i oplemenjivanju (ISO 3175-3:2017; EN ISO 3175-3:2018)  
Textiles – Professional care, drycleaning and wetcleaning of fabrics and garments – Part 3: Procedure for testing performance when cleaning and finishing using hydrocarbon solvent (ISO 3175-3:2017; EN ISO 3175-3:2018)

#### • treba biti

HRN EN ISO 3175-3:2018  
Tekstil – Profesionalna njega, kemijsko čišćenje i mokro čišćenje plošnih tekstila i odjevnih predmeta – 3. dio: Postupak za ispitivanje djelovanja ugljikovodikovih otapala pri čišćenju i oplemenjivanju (ISO 3175-3:2017, **ispravljena verzija 2019-12**; EN ISO 3175-3:2018)  
Textiles – Professional care, drycleaning and wetcleaning of fabrics and garments – Part 3: Procedure for testing performance when cleaning and finishing using hydrocarbon solvent (ISO 3175-3:2017, **Corrected version 2019-12**; EN ISO 3175-3:2018)

#### • umjesto

HRN EN ISO 3175-4:2018  
Tekstil – Profesionalna njega, kemijsko čišćenje i mokro čišćenje plošnih tekstila i odjevnih predmeta – 4. dio: Postupak za ispitivanje učinka čišćenja i oplemenjivanja u simuliranom mokrom čišćenju (ISO 3175-4:2018; EN ISO 3175-4:2018)  
Textiles – Professional care, drycleaning and wetcleaning of fabrics and garments – Part 4: Procedure for testing performance when cleaning and finishing using simulated wetcleaning (ISO 3175-4:2018; EN ISO 3175-4:2018)

#### • treba biti

HRN EN ISO 3175-4:2018  
Tekstil – Profesionalna njega, kemijsko čišćenje i mokro čišćenje plošnih tekstila i odjevnih predmeta – 4. dio: Postupak za ispitivanje učinka čišćenja i oplemenjivanja u simuliranom mokrom čišćenju (ISO 3175-4:2018, **ispravljena verzija 2019-12**; EN ISO 3175-4:2018)  
Textiles – Professional care, drycleaning and wetcleaning of fabrics and garments – Part 4: Procedure for testing performance when cleaning and finishing using simulated wetcleaning (ISO 3175-4:2018, **Corrected version 2019-12**; EN ISO 3175-4:2018)

## 1.10 Prijevodi hrvatskih normativnih dokumenata

### HZN/TO 28, *Naftni proizvodi i maziva*

Sljedeće hrvatske norme objavljene na engleskome jeziku sada su dostupne i na hrvatskome jeziku:

HRN EN 228:2017 hr-en pr-pp  
Goriva za motorna vozila – Bezolovni motorni benzin – Zahtjevi i metode ispitivanja (EN 228:2012+A1:2017)  
Automotive fuels – Unleaded petrol – Requirements and test methods (EN 228:2012+A1:2017)

HRN EN 589:2018 hr-en pr-pp  
Goriva za motorna vozila – UNP – Zahtjevi i metode ispitivanja (EN 589:2018)  
Automotive fuels – LPG – Requirements and test methods (EN 589:2018)

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

### Europska normizacija (CEN)

Oznaka norme	Naslov norme	ICS	Datum objave
EN 54-13+A1	Fire detection and fire alarm systems – Part 13: Compatibility and connectability assessment of system components	13.220.20	2019-12
EN 234	Wallcoverings in roll form – Specification for wallcoverings for subsequent decoration	91.180	2019-12
CEN/TS 1451-2	Plastic piping systems for soil and waste discharge (low and high temperature) within the building structure – Polypropylene (PP) – Part 2: Guidance for the assessment of conformity	23.040.20; 91.140.80	2019-12
CEN/TS 1852-2	Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene (PP) – Part 2: Guidance for the assessment of conformity	23.040.01; 93.030	2019-12
EN 2451	Aerospace series – Steel 31Ni10 – 1230 MPa $\leq$ Rm $\leq$ 1420 MPa – Forgings – De $\leq$ 40 mm	49.025.10	2019-12
EN 2476	Aerospace series – Steel 30CrNiMo8 (1.6580) – 1100 MPa $\leq$ Rm $\leq$ 1300 MPa – Forgings – De $\leq$ 100 mm	49.025.10	2019-12
EN 2502	Aerospace series – Steel X5CrNiMoCuNb14-5 (1.4594) – 930 MPa $\leq$ Rm $\leq$ 1080 MPa – Bars – De $\leq$ 150 mm	49.025.10	2019-12
EN 2503	Aerospace series – Steel X5CrNiMoCuNb14-5 (1.4594) – 930 MPa $\leq$ Rm $\leq$ 1080 MPa – Forgings – De $\leq$ 150 mm	49.025.10	2019-12
EN 2997-011	Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire resistant or non fire resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 011: Dummy receptacle – Product standard	49.060	2019-12
EN 3018	Aerospace series – Heat resisting alloy NI-PH2801 (NiCr16Fe7Ti3Nb1Al1) – Consumable electrode remelted – Cold drawn wire for the manufacture of thread inserts – D $\leq$ 3 mm	49.025.15	2019-12
EN 3155-016	Aerospace series – Electrical contacts used in elements of connection – Part 016: Contacts, electrical, male, type A, crimp, class S – Product standard	49.060	2019-12
EN 3155-019	Aerospace series – Electrical contacts used in elements of connection – Part 019: Contacts, electrical, female, type A, crimp, class S – Product standard	49.060	2019-12
EN 3155-044	Aerospace series – Electrical contacts used in elements of connection – Part 044: Contacts, electrical, male 044, type A, double crimping, class T – Product standard	49.060	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
EN 3155-045	Aerospace series – Electrical contacts used in elements of connection – Part 045: Contacts, electrical, female, type A, double crimping, class T – Product standard	49.060	2019-12
EN 3155-076	Aerospace series – Electrical contacts used in elements of connection – Part 076: Contacts, electrical, male, type A, crimp, class R – Product standard	49.060	2019-12
EN 3155-077	Aerospace series – Electrical contacts used in elements of connection – Part 077: Contacts, electrical, female, type A, crimp, class R – Product standard	49.060	2019-12
EN 3484	Aerospace series – Steel X5CrNiCuNb16-4 (1.4549 type 1.4542) – As cast – Reference heat treatment: homogenised, solution treated, precipitation hardened and sub zero – Remelting stock	49.025.10	2019-12
EN 3486	Aerospace series – Steel X3CrNiMoAl13-8-2 (1.4534) – Solution annealed and precipitation hardened – 1400 ≤ Rm ≤ 1550 MPa – Forgings – De ≤ 100 mm	49.025.10	2019-12
EN 3489	Aerospace series – Steel X8CrNiTi18-10 (1.4878/1.4544) – Softened – 500 ≤ Rm ≤ 750 MPa – Tubes for structures – 0,5 ≤ a ≤ 5 mm	49.025.10	2019-12
EN 4604-007	Aerospace series – Cable, electrical, for signal transmission – Part 007: Cable, coaxial, 50 ohms, 200 °C, type WN – Product standard	49.060	2019-12
EN 4681-001	Aerospace series – Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium – Part 001: Technical specification	49.060	2019-12
EN 4840-102	Aerospace series – Heat shrinkable moulded shapes – Part 102: Elastomeric, semi-rigid, temperature range -75 to 150 °C – Product Standard	49.060	2019-12
EN 10216-2+A1	Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties	23.040.10; 77.140.75	2019-12
EN 12301	Plastics and rubber machines – Calenders – Safety requirements	83.200	2019-12
EN 12640	Intermodal loading units and commercial vehicles – Lashing points for cargo securing – Minimum requirements and testing	55.180.99	2019-12
EN 12641-1	Intermodal loading units and commercial vehicles – Tarpaulins – Part 1: Minimum requirements	55.180.10	2019-12
EN 12641-2	Intermodal loading units and commercial vehicles – Tarpaulins – Part 2: Minimum requirements for curtainsiders	55.180.10	2019-12
EN 12845+A1	Fixed firefighting systems – Automatic sprinkler systems – Design, installation and maintenance	13.220.20	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
EN 12965	Tractors and machinery for agriculture and forestry – Power take-off (PTO) drive shafts and their guards – Safety	65.060.01	2019-12
EN 13031-1	Greenhouses – Design and construction – Part 1: Commercial production greenhouses	65.040.30	2019-12
EN 13053	Ventilation for buildings – Air handling units – Rating and performance for units, components and sections	91.140.30	2019-12
CEN/TS 13476-4	Plastics piping systems for non-pressure underground drainage and sewerage – Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) – Part 4: Assessment of conformity	23.040.20; 93.030	2019-12
EN 14908-7	Open communication in building automation, controls and building management – Control Network Protocol – Part 7: Communication via internet protocols	35.240.67; 91.140.01; 97.120	2019-12
EN 15202	LPG equipment and accessories – Essential operational dimensions for LPG cylinder valve outlet and associated equipment connections	23.060.40	2019-12
EN 15597-2	Winter maintenance equipment – Spreading and spraying machines – Part 2: Requirements for distribution and their test	13.030.40	2019-12
EN 16234-1	e-Competence Framework (e-CF) – A common European Framework for ICT Professionals in all sectors – Part 1: Framework	35.020	2019-12
CWA 17349	Engineering materials – Electronic data interchange – Mechanical test data	35.240.99; 77.040.10	2019-12
CWA 17486	Verification of performance levels of Galileo Enabled mass-market receivers	47.020.70	2019-12
CWA 17493	Journalism Trust Initiative	01.140.40	2019-12
EN ISO 180	Plastics – Determination of Izod impact strength (ISO 180:2019)	83.080.01	2019-12
EN ISO 3233-1	Paints and varnishes – Determination of percentage volume of non-volatile matter – Part 1: Method using a coated test panel to determine non-volatile matter and to determine dry-film density by the Archimedes principle (ISO 3233-1:2019)	87.040	2019-12
EN ISO 5010	Earth-moving machinery – Wheeled machines – Steering requirements (ISO 5010:2019)	53.100	2019-12
EN ISO 6504-3	Paints and varnishes – Determination of hiding power – Part 3: Determination of hiding power of paints for masonry, concrete and interior use (ISO 6504-3:2019)	87.040	2019-12
EN ISO 6892-1	Metallic materials – Tensile testing – Part 1: Method of test at room temperature (ISO 6892-1:2019)	77.040.10	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
EN ISO 8654/A1	Jewellery – Colours of gold alloys – Definition, range of colours and designation – Amendment 1 (ISO 8654:2018/Amd 1:2019)	39.060	2019-12
EN ISO 9863-1/A1	Geosynthetics – Determination of thickness at specified pressures – Part 1: Single layers – Amendment 1 (ISO 9863-1:2016/Amd 1:2019)	59.080.70	2019-12
EN ISO 10070	Metallic powders – Determination of envelope-specific surface area from measurements of the permeability to air of a powder bed under steady-state flow conditions (ISO 10070:2019)	77.160	2019-12
EN ISO 10722	Geosynthetics – Index test procedure for the evaluation of mechanical damage under repeated loading – Damage caused by granular material (laboratory test method) (ISO 10722:2019)	59.080.70	2019-12
EN ISO 10961	Gas cylinders – Cylinder bundles – Design, manufacture, testing and inspection (ISO 10961:2019)	23.020.35	2019-12
EN ISO 11117	Gas cylinders – Valve protection caps and guards – Design, construction and tests (ISO 11117:2019)	11.040.10; 23.020.35	2019-12
EN ISO 12813	Electronic fee collection – Compliance check communication for autonomous systems (ISO 12813:2019)	03.220.20; 35.240.60	2019-12
EN ISO 13426-1	Geotextiles and geotextile-related products – Strength of internal structural junctions – Part 1: Geocells (ISO 13426-1:2019)	59.080.70	2019-12
EN ISO 13938-1	Textiles – Bursting properties of fabrics – Part 1: Hydraulic method for determination of bursting strength and bursting distension (ISO 13938-1:2019)	59.080.30	2019-12
EN ISO 13938-2	Textiles – Bursting properties of fabrics – Part 2: Pneumatic method for determination of bursting strength and bursting distension (ISO 13938-2:2019)	59.080.30	2019-12
EN ISO 16140-6	Microbiology of the food chain – Method validation – Part 6: Protocol for the validation of alternative (proprietary) methods for microbiological confirmation and typing procedures (ISO 16140-6:2019)	07.100.30	2019-12
EN ISO 16929	Plastics – Determination of the degree of disintegration of plastic materials under defined composting conditions in a pilot-scale test (ISO 16929:2019)	83.080.01	2019-12
EN ISO 19107	Geographic information – Spatial schema (ISO 19107:2019)	35.240.70	2019-12
EN ISO 19116	Geographic information – Positioning services (ISO 19116:2019)	35.240.70	2019-12
EN ISO 19577	Footwear – Critical substances potentially present in footwear and footwear components – Determination of Nitrosamines (ISO 19577:2019)	61.060	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
EN ISO 20706-1	Textiles – Qualitative and quantitative analysis of some bast fibres (flax, hemp, ramie) and their blends – Part 1: Fibre identification using microscopy methods (ISO 20706-1:2019)	59.060.01	2019-12
EN ISO 21268-4	Soil quality – Leaching procedures for subsequent chemical and ecotoxicological testing of soil and soil-like materials – Part 4: Influence of pH on leaching with initial acid/base addition (ISO 21268-4:2019)	13.080.05	2019-12
EN ISO 28927-1	Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 1: Angle and vertical grinders (ISO 28927-1:2019)	13.160; 25.140.10	2019-12
EN ISO 29988-1	Plastics – Polyoxymethylene (POM) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 29988-1:2019)	83.080.20	2019-12
EN ISO/ASTM 52907	Additive manufacturing – Feedstock materials – Methods to characterize metal powders (ISO/ASTM 52907:2019)	25.030	2019-12
EN ISO 80079-36/AC	Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements – Technical Corrigendum 1 (ISO 80079-36:2016/Cor 1:2019)	29.260.20	2019-12

## Europska normizacija (CENELEC)

Oznaka norme	Naslov norme	ICS	Datum objave
EN 50083-2-4	Cable networks for television signals, sound signals and interactive services – Part 2-4: Interference Mitigation Filters operating in the 700 MHz and 800 MHz bands for DTT reception	33.060.40	2019-12
EN 50325-1	Industrial communications subsystem based on ISO 11898 (CAN) for controller-device interfaces – Part 1: General requirements	43.040.15	2019-12
EN 50676	Electrical equipment used for detection and concentration measurement of refrigerant gases – Performance requirements and test methods	13.320; 27.200	2019-12
CLC/TS 50703-1	Lightning Protection System Components (LPSC) – Part 1: Testing requirements for metal sheets' joints used in LPS	91.120.40	2019-12
EN IEC 60077-3	Railway applications – Electric equipment for rolling stock – Part 3: Electrotechnical components – Rules for DC circuit-breakers (IEC 60077-3:2019)	45.060.01	2019-12
EN IEC 60077-4	Railway applications – Electric equipment for rolling stock – Part 4: Electrotechnical components – Rules for AC circuit-breakers (IEC 60077-4:2019)	45.060.01	2019-12
EN IEC 60077-5	Railway applications – Electric equipment for rolling stock – Part 5: Electrotechnical components – Rules for HV fuses (IEC 60077-5:2019)	45.060.01	2019-12
EN IEC 60079-19	Explosive atmospheres – Part 19: Equipment repair, overhaul and reclamation (IEC 60079-19:2019)	29.260.20	2019-12
EN IEC 60309-5	Plugs, socket-outlets and couplers for industrial purposes – Part 5: Dimensional compatibility and interchangeability requirements for plugs, socket-outlets, ship connectors and ship inlets for low-voltage shore connection systems (LVSC) (IEC 60309-5:2017)	29.120.30; 47.020.60	2019-12
EN IEC 60317-27-3	Specifications for particular types of winding wires – Part 27-3: Paper tape covered rectangular copper wire (IEC 60317-27-3:2019)	29.060.10	2019-12
EN 60335-2-5/A11	Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers	13.120; 97.040.40	2019-12
EN 60335-2-35/A1	Household and similar electrical appliances – Safety – Part 2-35: Particular requirements for instantaneous water heaters (IEC 60335-2-35:2012/A1:2016)	13.120; 91.140.65; 97.040.50	2019-12
EN 60335-2-47/A2	Household and similar electrical appliances – Safety – Part 2-47: Particular requirements for commercial electric boiling pans (IEC 60335-2-47:2002/A2:2017)	97.040.20	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
EN 60335-2-48/A2	Household and similar electrical appliances – Safety – Part 2-48: Particular requirements for commercial electric grillers and toasters (IEC 60335-2-48:2002/A2:2017)	97.040.20	2019-12
EN 60335-2-49/A2	Household and similar electrical appliances – Safety – Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm (IEC 60335-2-49:2002/A2:2017)	97.030	2019-12
EN 60335-2-61/A11	Household and similar electrical appliances – Safety – Part 2-61: Particular requirements for thermal-storage room heaters	13.120; 97.100.10	2019-12
EN IEC 60512-28-100	Connectors for electrical and electronic equipment – Tests and measurements – Part 28-100: Signal integrity tests up to 2 000 MHz – Tests 28a to 28g (IEC 60512-28-100:2019)	31.220.10	2019-12
EN IEC 60793-2	Optical fibres – Part 2: Product specifications – General (IEC 60793-2:2019)	33.180.10	2019-12
EN IEC 60904-4	Photovoltaic devices – Part 4: Reference solar devices – Procedures for establishing calibration traceability (IEC 60904-4:2019)	27.160	2019-12
EN IEC 61300-2-54	Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-54: Tests – Corrosive atmosphere (mixed gas) (IEC 61300-2-54:2019)	33.180.20	2019-12
EN 61400-12-1/AC	Wind power generation systems – Part 12-1: Power performance measurement of electricity producing wind turbines (IEC 61400-12-1:2017/COR1:2019)	27.180	2019-12
EN IEC 61535	Installation couplers intended for permanent connection in fixed installations (IEC 61535:2019)	29.120.99	2019-12
EN 61784-3-12/A1	Industrial communication networks – Profiles – Part 3-12: Functional safety fieldbuses – Additional specifications for CPF 12 (IEC 61784-3-12:2010/A1:2019)	25.040.40; 35.100.05; 35.160; 35.240.50	2019-12
EN IEC 61857-32	Electrical insulation systems – Procedures for thermal evaluation – Part 32: Multifactor evaluation with increased factors during diagnostic testing (IEC 61857-32:2019)	29.080.30	2019-12
EN 62026-2/A1	Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs) – Part 2: Actuator sensor interface (AS-i) (IEC 62026-2:2008/A1:2019)	29.130.20	2019-12
EN 62026-3/AC	Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs) – Part 3: DeviceNet (IEC 62026-3:2014/COR2:2019)	29.130.20	2019-12
EN IEC 62386-332/AC	Digital addressable lighting interface – Part 332: Particular requirements – Input devices – Feedback (IEC 62386-332:2017/COR1:2019)	29.140.30; 29.140.99; 35.240.99	2019-12



Oznaka norme	Naslov norme	ICS	Datum objave
EN IEC 62430	Environmentally conscious design (ECD) – Principles, requirements and guidance (IEC 62430:2019)	13.020.01; 13.020.30; 29.020; 31.020	2019-12
EN IEC 62878-1	Device embedding assembly technology – Part 1: Generic specification for device embedded substrates (IEC 62878-1:2019)	31.180; 31.190	2019-12
EN IEC 62885-9	Surface cleaning appliances – Part 9: Floor treatment machines with or without traction drive, for commercial use – Methods for measuring the performance (IEC 62885-9:2019)	97.080	2019-12
EN IEC 63006	Wireless power transfer (WPT) – Glossary of terms (IEC 63006:2019)	01.040.29; 01.040.33; 29.240.99; 33.160.99	2019-12
EN IEC 63077	Good refurbishment practices for medical imaging equipment (IEC 63077:2019)	11.040.55	2019-12
EN 301549	Accessibility requirements for ICT products and services	03.100.10; 13.180; 33.020; 33.030; 35.020	2019-12
EN ISO 14971	Medical devices – Application of risk management to medical devices (ISO 14971:2019)	11.040.01	2019-12

## Europska normizacija (ETSI)

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 102232-1 V 3.21.1	Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 1: Handover specification for IP delivery	33.040.35	2019-12
ETSI TS 102232-7 V 3.7.1	Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 7: Service-specific details for Mobile Services	33.040.35	2019-12
ETSI TR 102503 V 1.13.1	Lawful Interception (LI) – ASN.1 Object Identifiers in Lawful Interception and Retained data handling Specifications	33.040.35	2019-12
ETSI TS 103120 V 1.4.1	Lawful Interception (LI) – Interface for warrant information	33.040.35	2019-12
ETSI TS 103221-1 V 1.6.1	Lawful Interception (LI) – Internal Network Interfaces – Part 1: X1	33.040.35	2019-12
ETSI TS 103221-2 V 1.2.1	Lawful Interception (LI) – Internal Network Interfaces – Part 2: X2/X3	33.040.35	2019-12
ETSI TR 103265 V 1.4.1	Electromagnetic compatibility and Radio spectrum Matters (ERM) – Definition of radio parameters	33.100.10	2019-12
ETSI TS 103280 V 2.4.1	Lawful Interception (LI) – Dictionary for common parameters	33.040.35	2019-12
ETSI TS 103389 V 3.2.1	Railway Telecommunications (RT) – Global System for Mobile communications (GSM) – Usage of Session Initiation Protocol (SIP) on the Network Switching Subsystem (NSS) to Fixed Terminal Subsystem (FTS) interface for GSM Operation on Railways	33.070.50	2019-12
ETSI TS 103462 V 1.2.1	Lawful Interception (LI) – Inter LEMF Handover Interface	33.040.35	2019-12
ETSI TS 103479 V 1.1.1	Emergency Communications (EMTEL) – Core elements for network independent access to emergency services	33.040.01	2019-12
ETSI TR 103536 V 1.1.2	SmartM2M – Strategic/technical approach on how to achieve interoperability/interworking of existing standardized IoT Platforms	33.200	2019-12
ETSI TR 103562 V 2.1.1	Intelligent Transport Systems (ITS) – Vehicular Communications – Basic Set of Applications – Analysis of the Collective Perception Service (CPS) – Release 2	35.240.60	2019-12
ETSI TR 103612 V 1.1.1	IMT cellular networks – Mobile/Fixed Communication Network (MFCN) in the frequency range 6425 – 7125 MHz	33.040.01; 33.070.01	2019-12
ETSI TR 103618 V 1.1.1	CYBER – Quantum-Safe Identity-Based Encryption	33.040.99; 35.030	2019-12
ETSI TS 103625 V 1.1.1	Emergency Communications (EMTEL) – Transporting Handset Location to PSAPs for Emergency Calls – Advanced Mobile Location	33.040.01	2019-12
ETSI TR 103644 V 1.1.1	CYBER – Increasing smart meter security	33.040.99; 35.030	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 105200-2-2 V 1.3.1	Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Implementation of Global KPIs – Part 2: Specific requirements – Sub-part 2: Fixed broadband access networks	33.060.40	2019-12
ETSI TS 105200-2-3 V 1.2.1	Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Implementation of Global KPIs – Part 2: Specific requirements – Sub-part 3: Mobile broadband access networks	33.060.40	2019-12
ETSI TS 105200-3-1 V 1.2.1	Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Implementation of Global KPIs – Part 3: ICT Sites – Sub-part 1: DCEM	33.060.40	2019-12
ETSI TS 119172-2 V 1.1.1	Electronic Signatures and Infrastructures (ESI) – Signature Policies – Part 2: XML format for signature policies	33.040.01	2019-12
ETSI TS 119172-3 V 1.1.1	Electronic Signatures and Infrastructures (ESI) – Signature Policies – Part 3: ASN.1 format for signature policies	33.040.01	2019-12
ETSI GS MEC 012 V 2.1.1	Multi-access Edge Computing (MEC) – Radio Network Information API	33.070.99	2019-12
ETSI GS NFV-SOL 004 V 2.7.1	Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – VNF Package and PNFD Archive specification	33.040.40; 35.110	2019-12
ETSI GS NFV-SOL 006 V 2.7.1	Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – NFV Descriptors based on YANG Specification	35.110	2019-12
ETSI GS NFV-SOL 007 V 2.7.1	Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – Network Service Descriptor File Structure Specification	35.110	2019-12
ETSI GS NFV-SOL 013 V 2.7.1	Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – Specification of common aspects for RESTful NFV MANO APIs	35.110	2019-12
EN 300175-1 V 2.8.1	Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 1: Overview	33.070.30	2019-12
EN 300175-2 V 2.8.1	Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 2: Physical Layer (PHL)	33.070.30	2019-12
EN 300175-3 V 2.8.1	Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 3: Medium Access Control (MAC) layer	33.070.30	2019-12
EN 300175-4 V 2.8.1	Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 4: Data Link Control (DLC) layer	33.070.30	2019-12
EN 300175-5 V 2.8.1	Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 5: Network (NWK) layer	33.070.30	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
EN 300175-6 V 2.8.1	Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 6: Identities and addressing	33.070.30	2019-12
EN 300175-7 V 2.8.1	Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 7: Security features	33.070.30	2019-12
EN 300175-8 V 2.8.1	Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 8: Speech and audio coding and transmission	33.070.30	2019-12
EN 300176-2 V 2.3.1	Digital Enhanced Cordless Telecommunications (DECT) – Test specification – Part 2: Audio and speech	33.070.30	2019-12

## Međunarodna normizacija (ISO)

Oznaka norme	Naslov norme	ICS	Datum objave
IWA 33-1	Technical guidelines for the development of small hydropower plants – Part 1: Vocabulary	01.040.27; 27.140	2019-12
IWA 33-2	Technical guidelines for the development of small hydropower plants – Part 2: Site selection planning	27.140	2019-12
ISO 643	Steels – Micrographic determination of the apparent grain size	77.040.99	2019-12
ISO 3103	Tea – Preparation of liquor for use in sensory tests	67.140.10; 67.240	2019-12
ISO 5725-2	Accuracy (trueness and precision) of measurement methods and results – Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method	03.120.30; 17.020	2019-12
ISO 6183 AMD 2	Fire protection equipment – Carbon dioxide extinguishing systems for use on premises – Design and installation; Amendment 2	13.220.10	2019-12
ISO 6614 AMD 1	Petroleum products – Determination of water separability of petroleum oils and synthetic fluids; Amendment 1	75.080	2019-12
ISO 7626-5	Mechanical vibration and shock – Experimental determination of mechanical mobility – Part 5: Measurements using impact excitation with an exciter which is not attached to the structure	17.160	2019-12
ISO 8000-63	Data quality – Part 63: Data quality management: Process measurement	25.040.40	2019-12
ISO 8654 AMD 1	Jewellery – Colours of gold alloys – Definition, range of colours and designation; Amendment 1	39.060	2019-12
ISO 8836	Suction catheters for use in the respiratory tract	11.040.10; 11.040.25	2019-12
ISO 9120 AMD 1	Petroleum and related products – Determination of air-release properties of steam turbine and other oils – Impinger method; Amendment 1	75.100	2019-12
ISO/TS 9241-126	Ergonomics of human-system interaction – Part 126: Guidance on the presentation of auditory information	13.180; 35.180	2019-12
ISO 10015	Quality management – Guidelines for competence management and people development	03.100.30; 03.120.10	2019-12
ISO 10070	Metallic powders – Determination of envelope-specific surface area from measurements of the permeability to air of a powder bed under steady-state flow conditions	77.160	2019-12
ISO 10240	Small craft – Owner's manual	47.080	2019-12
ISO 10276	Nuclear energy – Fuel technology – Trunnion systems for packages used to transport radioactive material	27.120.30	2019-12
ISO 10763	Hydraulic fluid power – Plain-end, seamless and welded precision steel tubes – Dimensions and nominal working pressures	23.100.40; 77.140.75	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/TS 10867	Nanotechnologies – Characterization of single-wall carbon nanotubes using near infrared photoluminescence spectroscopy	07.120	2019-12
ISO 10993-7 AMD 1	Biological evaluation of medical devices – Part 7: Ethylene oxide sterilization residuals – Amendment 1: Applicability of allowable limits for neonates and infants	11.100.20	2019-12
ISO 11665-8	Measurement of radioactivity in the environment – Air: radon-222 – Part 8: Methodologies for initial and additional investigations in buildings	13.040.01; 17.240	2019-12
ISO 11737-2	Sterilization of health care products – Microbiological methods – Part 2: Tests of sterility performed in the definition, validation and maintenance of a sterilization process	07.100.10; 11.080.01	2019-12
ISO 12641-2	Graphic technology – Prepress digital data exchange – Part 2: Advanced colour targets for input scanner calibration	35.240.30; 37.100.99	2019-12
ISO/TS 12913-3	Acoustics – Soundscape – Part 3: Data analysis	17.140.01	2019-12
ISO 12956	Geotextiles and geotextile-related products – Determination of the characteristic opening size	59.080.70	2019-12
ISO 13400-2	Road vehicles – Diagnostic communication over Internet Protocol (DoIP) – Part 2: Transport protocol and network layer services	43.040.10; 43.180	2019-12
ISO 14620-2	Space systems – Safety requirements – Part 2: Launch site operations	49.140	2019-12
ISO 14708-7	Implants for surgery – Active implantable medical devices – Part 7: Particular requirements for cochlear and auditory brainstem implant systems	11.040.40	2019-12
ISO 14830-1	Condition monitoring and diagnostics of machine systems – Tribology-based monitoring and diagnostics – Part 1: General requirements and guidelines	17.160	2019-12
ISO 14966	Ambient air – Determination of numerical concentration of inorganic fibrous particles – Scanning electron microscopy method	13.040.20	2019-12
ISO 14971	Medical devices – Application of risk management to medical devices	11.040.01	2019-12
ISO 15379-1	Carbonaceous materials for the production of aluminium – Cathode block materials – Part 1: Determination of the expansion due to sodium penetration with application of pressure	71.100.10	2019-12
ISO 15392	Sustainability in buildings and civil engineering works – General principles	91.040.01	2019-12
ISO 15585	Hard coal – Determination of caking index	73.040	2019-12
ISO 15704	Enterprise modelling and architecture – Requirements for enterprise-referencing architectures and methodologies	25.040.01	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 15836-2	Information and documentation – The Dublin Core metadata element set – Part 2: DCMI Properties and classes	35.240.30	2019-12
ISO 15902	Optics and photonics – Diffractive optics – Vocabulary	01.040.31; 31.260	2019-12
ISO 15926-10	Industrial automation systems and integration – Integration of life cycle data for process plants including oil and gas production facilities – Part 10: Conformance testing	25.040.40; 75.020	2019-12
ISO 16063-34	Methods for the calibration of vibration and shock transducers – Part 34: Testing of sensitivity at fixed temperatures	17.160	2019-12
ISO 16073-5	Wildland firefighting personal protective equipment – Requirements and test methods – Part 5: Helmets	13.220.10; 13.340.20	2019-12
ISO 16300-4	Automation systems and integration – Interoperability of capability units for manufacturing application solutions – Part 4: Capability unit assessment for the manufacturing application requirements	25.040.01	2019-12
ISO/TS 16355-6	Applications of statistical and related methods to new technology and product development process – Part 6: Guidance for QFD-related approaches to optimization	03.120.30	2019-12
ISO 16610-61 AMD 1	Geometrical product specification (GPS) – Filtration – Part 61: Linear areal filters – Gaussian filters; Amendment 1	17.040.20	2019-12
ISO 16698	Space environment (natural and artificial) – Methods for estimation of future geomagnetic activity	49.140	2019-12
ISO/TS 16943	Thermoplastic pipes for the conveyance of fluids – Inspection of polyethylene electrofusion socket joints using phased array ultrasonic testing	23.040.20	2019-12
ISO/TS 17187	Intelligent transport systems – Electronic information exchange to facilitate the movement of freight and its intermodal transfer – Governance rules to sustain electronic information exchange methods	03.220.01; 35.240.60	2019-12
ISO 18086	Corrosion of metals and alloys – Determination of AC corrosion – Protection criteria	77.060	2019-12
ISO 18241 AMD 1	Cardiovascular implants and extracorporeal systems – Cardiopulmonary bypass systems – Venous bubble traps – Amendment 1: Connectors	11.040.40	2019-12
ISO 18589-4	Measurement of radioactivity in the environment – Soil – Part 4: Plutonium 238 and plutonium 239 + 240 – Test method using alpha spectrometry	13.080.01; 17.240	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 18589-5	Measurement of radioactivity in the environment – Soil – Part 5: Strontium 90 – Test method using proportional counting or liquid scintillation counting	13.080.01; 17.240	2019-12
ISO 18589-6	Measurement of radioactivity in the environment – Soil – Part 6: Gross alpha and gross beta activities – Test method using gas-flow proportional counting	13.080.01; 17.240	2019-12
ISO/TS 18621-11	Image quality evaluation methods for printed matter – Part 11: Colour gamut analysis	37.100.10	2019-12
ISO 19072-2	Road vehicles – Connection interface for pyrotechnic devices, two-way and three-way connections – Part 2: Test methods and general performance requirements	43.040.10	2019-12
ISO 19107	Geographic information – Spatial schema	35.240.70	2019-12
ISO 19116	Geographic information – Positioning services	35.240.70	2019-12
ISO/TR 19167	Application of ubiquitous public access to-geographic information to an air quality information service	35.240.70	2019-12
ISO 19585	Heavy commercial vehicles and buses – Vehicle dynamics simulation and validation – Steady-state circular driving behavior	43.080.01	2019-12
ISO 19586	Heavy commercial vehicles and buses – Vehicle dynamics simulation and validation – Lateral dynamic stability of vehicle combinations	43.080.01	2019-12
ISO 20539	Translation, interpreting and related technology – Vocabulary	01.020; 01.040.01	2019-12
ISO 20705	Textiles – Quantitative microscopical analysis – General principles of testing	59.060.01	2019-12
ISO 20706-1	Textiles – Qualitative and quantitative analysis of some bast fibres (flax, hemp, ramie) and their blends – Part 1: Fibre identification using microscopy methods	59.060.01	2019-12
ISO 20766-10	Road vehicles – Liquefied petroleum gas (LPG) fuel systems components – Part 10: Gas-tight housing	43.060.40	2019-12
ISO 20766-12	Road vehicles – Liquefied petroleum gas (LPG) fuel systems components – Part 12: Non-return valve	43.060.40	2019-12
ISO 20814	Nanotechnologies – Testing the photocatalytic activity of nanoparticles for NADH oxidation	07.120	2019-12
ISO 21058	Road vehicles – Dimethyl Ether (DME) refuelling connector	43.060.40	2019-12
ISO 21073	Microscopes – Confocal microscopes – Optical data of fluorescence confocal microscopes for biological imaging	37.020	2019-12
ISO 21223	Tools for pressing – Vocabulary	01.040.25; 25.120.10	2019-12



Oznaka norme	Naslov norme	ICS	Datum objave
ISO 21226	Soil quality – Guideline for the screening of soil polluted with toxic elements using soil magnetometry	13.080.10	2019-12
ISO 21432	Non-destructive testing – Standard test method for determining residual stresses by neutron diffraction	19.100	2019-12
ISO 21466	Microbeam analysis – Scanning electron microscopy – Method for evaluating critical dimensions by CD-SEM	37.020	2019-12
ISO 21971	Fine ceramics (advanced ceramics, advanced technical ceramics) – Mechanical properties of ceramic composites at ambient temperature in air atmospheric pressure – Determination of hoop tensile properties of tubes	81.060.30	2019-12
ISO 22127	Dosimetry with radiophotoluminescent glass dosimeters for dosimetry audit in MV X-ray radiotherapy	13.280	2019-12
ISO 22584	Traditional Chinese medicine – Angelica sinensis root	11.120.10	2019-12
ISO 22634-1	Cigarettes – Determination of benzo[a]pyrene in cigarette mainstream smoke using GC/MS – Part 1: Method using methanol as extraction solvent	65.160	2019-12
ISO 22634-2	Cigarettes – Determination of benzo[a]pyrene in cigarette mainstream smoke using GC/MS – Part 2: Method using cyclohexane as extraction solvent	65.160	2019-12
ISO 22760-1	Road vehicles – Dimethyl Ether (DME) fuel system components – Part 1: General requirements and definitions	43.060.40	2019-12
ISO 22760-2	Road vehicles – Dimethyl Ether (DME) fuel system components – Part 2: Performance and general test methods	43.060.40	2019-12
ISO 23121-1	Ships and marine technology – Inflatable buoyancy support systems against flooding of ships – Part 1: Gas supply system	47.020.10	2019-12
ISO 23121-2	Ships and marine technology – Inflatable buoyancy support systems against flooding of ships – Part 2: Buoyancy chamber	47.020.10	2019-12
ISO/TS 23128	Medical devices – Transfusion set and blood bag compatibility test method	11.040.20	2019-12
ISO 23430	Ships and marine technology – Specification of high manganese austenitic steel thin strips used for LNG tanks on board ships	47.020.05	2019-12
ISO 24444	Cosmetics – Sun protection test methods – In vivo determination of the sun protection factor (SPF)	71.100.70	2019-12
ISO 24617-9	Language resource management – Semantic annotation framework – Part 9: Reference annotation framework (RAF)	01.020	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/TS 26030	Social responsibility and sustainable development – Guidance on using ISO 26000:2010 in the food chain	03.100.02; 13.020.20; 67.020	2019-12
ISO 28139	Equipment for crop protection – Knapsack combustion engine-driven airblast sprayers – Safety and environmental requirements and test methods	65.060.40	2019-12
ISO/TS 37107	Sustainable cities and communities – Maturity model for smart sustainable communities	13.020.20	2019-12
ISO 37123	Sustainable cities and communities – Indicators for resilient cities	13.020.20	2019-12

## Međunarodna normizacija (IEC)

Oznaka norme	Naslov norme	ICS	Datum objave
IEC 60079-11 Interpretation Sheet 6	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”; Interpretation sheet 6	29.260.20	2019-12
IEC 60335-2-62	Household and similar electrical appliances – Safety – Part 2-62: Particular requirements for commercial electric rinsing sinks	97.040.50	2019-12
IEC 60335-2-95	Household and similar electrical appliances – Safety – Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use	13.120; 29.120.01; 29.160.30; 91.090	2019-12
IEC 60570 AMD 2	Electrical supply track systems for luminaires; Amendment 2	29.120.20; 29.140.40; 29.140.50	2019-12
IEC 60570 Edition 4.2	Electrical supply track systems for luminaires	29.120.20; 29.140.40; 29.140.50	2019-12
IEC 60747-5-9	Semiconductor devices – Part 5-9: Optoelectronic devices – Light emitting diodes – Test method of the internal quantum efficiency based on the temperature-dependent electroluminescence	31.080.99; 31.260	2019-12
IEC 60747-5-10	Semiconductor devices – Part 5-10: Optoelectronic devices – Light emitting diodes – Test method of the internal quantum efficiency based on the room-temperature reference point	31.080.99; 31.260	2019-12
IEC 60747-5-11	Semiconductor devices – Part 5-11: Optoelectronic devices – Light emitting diodes – Test method of radiative and nonradiative currents of light emitting diodes	31.080.99; 31.260	2019-12
IEC 60747-18-3	Semiconductor devices – Part 18-3: Semiconductor bio sensors – Fluid flow characteristics of lens-free CMOS photonic array sensor package modules with fluidic system	31.080.99	2019-12
IEC 60898-1 AMD 1	Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation; Amendment 1	29.120.50	2019-12
IEC 60898-1 Edition 2.1	Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation	29.120.50	2019-12
IEC 61000-4-25 AMD 2	Electromagnetic compatibility (EMC) – Part 4-25: Testing and measurement techniques – HEMP immunity test methods for equipment and systems; Amendment 2	33.100.20; 33.100.99	2019-12
IEC 61000-4-25 Edition 1.2	Electromagnetic compatibility (EMC) – Part 4-25: Testing and measurement techniques – HEMP immunity test methods for equipment and systems	33.100.20; 33.100.99	2019-12
IEC 61184 AMD 1	Bayonet lampholders	29.140.10	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
IEC 61184 Edition 4.1	Bayonet lampholders	29.140.10	2019-12
IEC 62282-8-102	Fuel cell technologies – Part 8-102: Energy storage systems using fuel cell modules in reverse mode – Test procedures for the performance of single cells and stacks with proton exchange membranes, including reversible operation	27.070	2019-12
IEC 62680-1-2	Universal serial bus interfaces for data and power Part 1-2: Common components – USB Power Delivery specification	29.220.01; 33.120.01; 35.200	2019-12
IEC 62823 AMD 1	Thyristor valves for thyristor controlled series capacitors (TCSC) – Electrical testing; Amendment 1	29.200; 29.240.99; 31.060.70	2019-12
IEC 62823 Edition 1.1	Thyristor valves for thyristor controlled series capacitors (TCSC) – Electrical testing	29.200; 29.240.99; 31.060.70	2019-12
IEC/TS 62871-2	Professional video storage products – Tape-less camera recorder using MXF file format – Encoding guidelines – Part 2: Mapping MPEG-2 and AVC Streams into MXF	33.160.40; 35.040.40	2019-12
IEC 62941; CEI 62941	Terrestrial photovoltaic (PV) modules – Quality system for PV module manufacturing	27.160	2019-12
IEC 62942; CEI 62942	File format for professional transfer and exchange of digital audio data	33.160.30	2019-12
IEC 62990-1 Corrigendum 1	Workplace atmospheres – Part 1: Gas detectors – Performance requirements of detectors for toxic gases; Corrigendum 1	13.040.30; 13.320	2019-12
IEC 63005-2	Event video data recorder for road vehicle accidents – Part 2: Test methods for evaluating performance of basic functions	33.160.40; 43.040.15	2019-12
IEC 63026	Submarine power cables with extruded insulation and their accessories for rated voltages from 6 kV (Um = 7,2 kV) up to 60 kV (Um = 72,5 kV) – Test methods and requirements	29.060.20	2019-12
IEC/TS 63081	Ultrasonics – Methods for the characterization of the ultrasonic properties of materials	17.140.50	2019-12
IEC/TR 63122-1	Smart television – Part 1: Conceptual model for smart television	33.160.25; 33.170	2019-12
IEC/TR 63122-2	Smart television – Part 2: Framework of integrated service on smart television	33.160.25; 33.170	2019-12
IEC/TS 63181-1	LCD multi-screen display terminals – Part 1: Conceptual model	31.120	2019-12
IEC/TR 63183	Guidance on error and warning messages for software used in radiotherapy	11.040.60	2019-12
ISO/IEC 7810	Identification cards – Physical characteristics	35.240.15	2019-12
ISO/IEC 10918-7	Information technology – Digital compression and coding of continuous-tone still images – Part 7: Reference software	35.040.30	2019-12
ISO/IEC 11179-7	Information technology – Metadata registries (MDR) – Part 7: Metamodel for data set registration	35.040.50	2019-12

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/IEC 14165-246	Information technology – Fibre channel – Part 246: Backbone – 6 (FC-BB-6)	35.200	2019-12
ISO/IEC 14496-3	Information technology – Coding of audio-visual objects – Part 3: Audio	35.040.40	2019-12
ISO/IEC 14763-2	Information technology – Implementation and operation of customer premises cabling – Part 2: Planning and installation	35.200	2019-12
ISO/IEC 14776-415	Information technology – Small computer system interface (SCSI) – Part 415: SCSI architecture model – 5 (SAM-5)	35.200	2019-12
ISO/IEC 14776-481	Information technology – Small computer system interface (SCSI) – Part 481: Security Features for SCSI Commands (SFSC)	35.200	2019-12
ISO/IEC/IEEE 16326	Systems and software engineering – Life cycle processes – Project management	35.080	2019-12
ISO/IEC TS 19795-9	Information technology – Biometric performance testing and reporting – Part 9: Testing on mobile devices	35.240.15	2019-12
ISO/IEC 20071-11	Information technology – User interface component accessibility – Part 11: Guidance on text alternatives for images	35.240.20	2019-12
ISO/IEC/IEEE 21840	Systems and software engineering – Guidelines for the utilization of ISO/IEC/IEEE 15288 in the context of system of systems (SoS)	35.080	2019-12
ISO/IEC 22505	Information technology – Method for the determination of ink cartridge yield for monochrome inkjet printers and multi-function devices that contain inkjet printer components	37.100.10	2019-12
ISO/IEC 23001-15	Information technology – MPEG systems technologies – Part 15: Carriage of web resources in ISOBMFF	35.040.40	2019-12
ISO/IEC 23005-7	Information technology – Media context and control – Part 7: Conformance and reference software	35.040.40	2019-12
ISO/IEC 23009-1	Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 1: Media presentation description and segment formats	35.040.40	2019-12
ISO/IEC TR 24772-1	Programming languages – Guidance to avoiding vulnerabilities in programming languages – Part 1: Language-independent guidance	35.060	2019-12
ISO/IEC 39794-1	Information technology – Extensible biometric data interchange formats – Part 1: Framework	35.240.15	2019-12
ISO/IEC 39794-4	Information technology – Extensible biometric data interchange formats – Part 4: Finger image data	35.240.15	2019-12
ISO/IEC 39794-5	Information technology – Extensible biometric data interchange formats – Part 5: Face image data	35.240.15	2019-12
IEC 62990-1 Technical Corrigendum 1	Workplace Atmospheres – Part 1: Gas detectors – Performance requirements of detectors for toxic gases; Technical Corrigendum 1	13.040.30	2019-12