

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

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Oglasnik za normativne dokumente Hrvatskog zavoda za norme sadrži popise hrvatskih norma, nacrtu hrvatskih norma, prijedloga za prihvaćanje stranih norma u izvorniku, povučene hrvatske norme, povučene nacrtu hrvatskih norma te ispravke, rezultate europske i međunarodne normizacije 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 638-2:2022 en pr  
Papir, karton, pulpe i celulozni nanomaterijali – Određivanje sadržaja suhe tvari metodom sušenja u peći – 2. dio: Suspenzije celuloznih nanomaterijala (ISO 638-2:2022; EN ISO 638-2:2022)  
Paper, board, pulps and cellulosic nanomaterials – Determination of dry matter content by oven-drying method – Part 2: Suspensions of cellulosic nanomaterials (ISO 638-2:2022; EN ISO 638-2:2022)

### HZN/TO 8, *Brodogradnja*

- HRN EN ISO 10087:2022 en pr  
Mala plovila – Prepoznavanje trupa – Sustav kodiranja (ISO 10087:2022; EN ISO 10087:2022)  
Small craft – Craft identification – Coding system (ISO 10087:2022; EN ISO 10087:2022)

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

- HRN ISO 2575:2022 en pr  
Cestovna vozila – Simboli za upravljačke naprave, indikatore i pokazne svjetiljke (ISO 2575:2021)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2021)
- HRN ISO 4000-1:2022 en pr  
Gume i naplatci za osobne automobile – 1. dio: Gume (milimetarski nizovi) (ISO 4000-1:2021)  
Passenger car tyres and rims – Part 1: Tyres (metric series) (ISO 4000-1:2021)
- HRN ISO 4138:2022 en pr  
Osobni automobili – Ponašanje pri ustaljenoj kružnoj vožnji – Metode ispitivanja otvorenom petljom (ISO 4138:2021)  
Passenger cars – Steady-state circular driving behaviour – Open-loop test methods (ISO 4138:2021)
- HRN ISO 5775-2:2022 en pr  
Gume i naplatci za bicikle – 2. dio: Naplatci (ISO 5775-2:2021)  
Bicycle tyres and rims – Part 2: Rims (ISO 5775-2:2021)
- HRN ISO 6460-1:2022 en pr  
Motocikli – Metoda mjerenja emisija ispušnih plinova i potrošnje goriva – 1. dio: Opći zahtjevi ispitivanja (ISO 6460-1:2022)  
Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 1: General test requirements (ISO 6460-1:2022)
- HRN ISO 6469-3:2022 en pr  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 3. dio: Električna sigurnost (ISO 6469-3:2021)  
Electrically propelled road vehicles – Safety specifications – Part 3: Electrical safety (ISO 6469-3:2021)
- HRN ISO 7876-5:2022 en pr  
Oprema za ubrizgavanje goriva – Terminološki rječnik – 5. dio: Sustav ubrizgavanja goriva sa zajedničkim spremnikom (common-rail) (ISO 7876-5:2021)  
Fuel injection equipment – Vocabulary – Part 5: Common rail fuel injection system (ISO 7876-5:2021)

- HRN ISO 10191:2022 en pr  
Gume za osobne automobile – Provjera svojstava guma – Laboratorijske metode ispitivanja (ISO 10191:2021)  
Passenger car tyres – Verifying tyre capabilities – Laboratory test methods (ISO 10191:2021)

- HRN ISO 11795:2020/A1:2022 en pr  
Gume za pogonske kotače poljoprivrednih traktora – Objašnjenje indeksa opsega kotrljanja (RCI) i indeksa radijusa brzine i metoda mjerenja opsega kotrljanja gume (ISO 11795:2018/Amd 1:2022)  
Agricultural tractor drive wheel tyres – Explanation of rolling circumference index (RCI) and speed radius index (SRI) and method of measuring tyre rolling circumference (ISO 11795:2018/Amd 1:2022)

- HRN ISO 11992-3:2022 en pr  
Cestovna vozila – Razmjena digitalnih podataka na električnim spojevima između vučnih i vučenih vozila – 3. dio: Aplikacijski sloj za opremu koja ne pripada kočnicama i podvozju (ISO 11992-3:2021)  
Road vehicles – Interchange of digital information on electrical connections between towing and towed vehicles – Part 3: Application layer for equipment other than brakes and running gear (ISO 11992-3:2021)

- HRN ISO 12345:2022 en pr  
Dizelski motori – Ocjena čistoće opreme za ubrizgavanje goriva (ISO 12345:2021)  
Diesel engines – Cleanliness assessment of fuel injection equipment (ISO 12345:2021)

- HRN ISO 14229-2:2022 en pr  
Cestovna vozila – Jedinstvene dijagnostičke usluge (UDS) – 2. dio: Usluge sloja povezivanja (sesije) (ISO 14229-2:2021)  
Road vehicles – Unified diagnostic services (UDS) – Part 2: Session layer services (ISO 14229-2:2021)

- HRN ISO 16844-1:2022 en pr  
Cestovna vozila – Tahografski sustavi – 1. dio: Elektromehanički sastavni dijelovi (ISO 16844-1:2022)  
Road vehicles – Tachograph systems – Part 1: Electromechanical components (ISO 16844-1:2022)

- HRN ISO 23671:2022 en pr  
Gume za osobne automobile – Metoda mjerenja relativne značajke prljanja na mokroj podlozi – Nove gume pod opterećenjem (ISO 23671:2021)  
Passenger car tyres – Method for measuring relative wet grip performance – Loaded new tyres (ISO 23671:2021)

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

- HRN EN ISO 11806-1:2022 en pr  
Poljoprivredna i šumarska mehanizacija – Sigurnosni zahtjevi i ispitivanje za prijenosne, ručno upravljane, motorne rezačice za grmlje i kosilice trave – 1. dio: Strojevi opremljeni motorom s unutrašnjim izgaranjem (ISO 11806-1:2022; EN ISO 11806-1:2022)  
Agricultural and forestry machinery – Safety requirements and testing for portable, hand-held, powered brush-cutters and grass-trimmers – Part 1: Machines fitted with an integral combustion engine (ISO 11806-1:2022; EN ISO 11806-1:2022)
- HRN EN ISO 11806-2:2022 en pr  
Poljoprivredna i šumarska mehanizacija – Sigurnosni zahtjevi i ispitivanje za prijenosne, ručno upravljane, motorne rezačice za grmlje i kosilice za travu – 2. dio: Strojevi opremljeni stražnjom pogonskom jedinicom (ISO 11806-2:2022; EN ISO 11806-2:2022)  
Agricultural and forestry machinery – Safety requirements and testing for portable, hand-held, powered brush-cutters and grass-trimmers – Part 2: Machines for use with back-pack power unit (ISO 11806-2:2022; EN ISO 11806-2:2022)
- HRN EN ISO 19472-2:2022 en pr  
Šumarska mehanizacija – Vitla – 2. dio: Vitla za vučnu pomoć (ISO 19472-2:2022; EN ISO 19472-2:2022)  
Machinery for forestry – Winches – Part 2: Traction aid winches (ISO 19472-2:2022; EN ISO 19472-2:2022)

### HZN/TO 25, *Ljevarstvo*

- HRN EN 10250-1:2022 en pr  
Čelični otkovci za inženjersku namjenu dobiveni slobodnim kovanjem – 1. dio: Opći zahtjevi (EN 10250-1:2022)  
Open die steel forgings for general engineering purposes – Part 1: General requirements (EN 10250-1:2022)

HRN EN 10250-2:2022 en pr  
Čelični otkovci za inženjersku namjenu dobiveni slobodnim kovanjem – 2. dio: Nelegirani i specijalni čelici (EN 10250-2:2022)  
Open die steel forgings for general engineering purposes – Part 2: Non-alloy quality and special steels (EN 10250-2:2022)

HRN EN 10250-3:2022 en pr  
Čelični otkovci za inženjersku namjenu dobiveni slobodnim kovanjem – 3. dio: Legirani specijalni čelici (EN 10250-3:2022)  
Open die steel forgings for general engineering purposes – Part 3: Alloy special steels (EN 10250-3:2022)

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

HRN EN 590:2022 en pr  
Goriva za motorna vozila – Dizelsko gorivo – Zahtjevi i metode ispitivanja (EN 590:2022)  
Automotive fuels – Diesel – Requirements and test methods (EN 590:2022)

HRN EN 16734:2022 en pr  
Goriva za motorna vozila – Dizelsko gorivo B10 – Zahtjevi i metode ispitivanja (EN 16734:2022)  
Automotive fuels – Automotive B10 diesel fuel – Requirements and test methods (EN 16734:2022)

### **HZN/TO 37, Terminologija**

HRN ISO 1087:2022 en pr  
Terminološki rad i nazivoslovlje – Terminološki rječnik (ISO 1087:2019)  
Terminology work and terminology science – Vocabulary (ISO 1087:2019)

HRN ISO 12616-1:2022 en pr  
Terminološki rad kao podrška višejezičnoj komunikaciji – 1. dio: Osnove terminografije usmjerene na prevođenje (ISO 12616-1:2021)  
Terminology work in support of multilingual communication – Part 1: Fundamentals of translation-oriented terminography (ISO 12616-1:2021)

HRN ISO 20539:2022 en pr  
Pismeno i usmeno prevođenje i povezane tehnologije – Terminološki rječnik (ISO 20539:2019)  
Translation, interpreting and related technology – Vocabulary (ISO 20539:2019)

HRN ISO 23155:2022 en pr  
Usluge usmenog prevođenja – Konferencijsko prevođenje – Zahtjevi i preporuke (ISO 23155:2022)  
Interpreting services – Conference interpreting – Requirements and recommendations (ISO 23155:2022)

HRN ISO 24613-2:2022 en pr  
Upravljanje jezičnim resursima – Okvir leksičkog obilježavanja (LMF) – 2. dio: Model strojno čitljivog rječnika (MRD) (ISO 24613-2:2020)  
Language resource management – Lexical markup framework (LMF) – Part 2: Machine-readable dictionary (MRD) model (ISO 24613-2:2020)

HRN ISO 24613-3:2022 en pr  
Upravljanje jezičnim resursima – Okvir leksičkog obilježavanja (LMF) – 3. dio: Proširenje elementima koji opisuju etimologiju (ISO 24613-3:2021)  
Language resource management – Lexical markup framework (LMF) – Part 3: Etymological extension (ISO 24613-3:2021)

HRN ISO 24613-4:2022 en pr  
Upravljanje jezičnim resursima – Okvir leksičkog obilježavanja (LMF) – 4. dio: Serijalizacija modela sukladnog sa Smjericama Inicijative za kodiranje teksta (TEI) (ISO 24613-4:2021)  
Language resource management – Lexical markup framework (LMF) – Part 4: TEI serialization (ISO 24613-4:2021)

HRN ISO 24613-5:2022 en pr  
Upravljanje jezičnim resursima – Okvir leksičkog obilježavanja (LMF) – 5. dio: Serijalizacija razmjene leksičkih baza (ISO 24613-5:2022)  
Language resource management – Lexical markup framework (LMF) – Part 5: Lexical base exchange (LBX) serialization (ISO 24613-5:2022)

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

HRN ISO 690:2022 en pr  
Informacije i dokumentacija – Smjernice za bibliografske bilješke i navode u izvorima informacija (ISO 690:2021)  
Information and documentation – Guidelines for bibliographic references and citations to information resources (ISO 690:2021)

HRN ISO 10957:2022 en pr  
Informacije i dokumentacija – Međunarodni standardni broj notirane glazbe (ISMN) (ISO 10957:2021)  
Information and documentation – International standard music number (ISMN) (ISO 10957:2021)

HRN ISO 15924:2022 en pr  
Informacije i dokumentacija – Kodovi za prikazivanja naziva pisama (ISO 15924:2022)  
Information and documentation – Codes for the representation of names of scripts (ISO 15924:2022)

HRN ISO 18626:2022 en pr  
Informacije i dokumentacija – Transakcije u međuknjižničnoj posudbi (ISO 18626:2021)  
Information and documentation – Interlibrary loan transactions (ISO 18626:2021)

HRN ISO 21248:2022 en pr  
Informacije i dokumentacija – Ocjena kvalitete za nacionalne knjižnice (ISO 21248:2019)  
Information and documentation – Quality assessment for national libraries (ISO 21248:2019)

HRN ISO 23081-2:2022 en pr  
Informacije i dokumentacija – Metapodaci za upravljanje zapisima – 2. dio: Načelna i implementacijska pitanja (ISO 23081-2:2021)  
Information and documentation – Metadata for managing records – Part 2: Conceptual and implementation issues (ISO 23081-2:2021)

### **HZN/TO 74, Cement i vapno**

HRN EN 16908:2022 en pr  
Cement i građevno vapno – Izjave o utjecaju proizvoda na okoliš – Pravila za razvrstavanje proizvoda kao dopuna normi EN 15804 (EN 16908:2017+A1:2022)  
Cement and building lime – Environmental product declarations – Product category rules complementary to EN 15804 (EN 16908:2017+A1:2022)

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

HRN EN ISO 28927-13:2022 en pr  
Ručni prijenosni strojni alati – Metode ispitivanja za procjenu emisije vibracija – 13. dio: Alati za pribijanje (ISO 28927-13:2022; EN ISO 28927-13:2022)  
Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 13: Fastener driving tools (ISO 28927-13:2022; EN ISO 28927-13:2022)

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

HRN EN ISO 10079-1:2022 en pr  
Medicinska usisna oprema – 1. dio: Električno pogonjena usisna oprema (ISO 10079-1:2022; EN ISO 10079-1:2022)  
Medical suction equipment – Part 1: Electrically powered suction equipment (ISO 10079-1:2022; EN ISO 10079-1:2022)

### **HZN/TO 130, Grafička tehnologija**

HRN ISO 14298:2022 en pr  
Grafička tehnologija – Upravljanje procesima zaštitnog tiska (ISO 14298:2021)  
Graphic technology – Management of security printing processes (ISO 14298:2021)

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

HRN EN ISO 9712:2022 en pr  
Nerazorno ispitivanje – Kvalifikacija i certifikacija NDT osoblja (ISO 9712:2021; EN ISO 9712:2022)  
Non-destructive testing – Qualification and certification of NDT personnel (ISO 9712:2021; EN ISO 9712:2022)

## HZN/TO 147, *Kvaliteta vode*

HRN EN ISO 10304-4:2022 en pr  
Kvaliteta vode – Određivanje otopljenih aniona ionskom tekućinskom kromatografijom – 4. dio: Određivanje klorata, klorida i klorita u slabo onečišćenim vodama (ISO 10304-4:2022; EN ISO 10304-4:2022)  
Water quality – Determination of dissolved anions by liquid chromatography of ions – Part 4: Determination of chlorate, chloride and chlorite in water with low contamination (ISO 10304-4:2022; EN ISO 10304-4:2022)

## HZN/TO 159, *Ergonomija*

HRN EN ISO 9241-394:2022 en pr  
Ergonomija interakcije čovjeka i sustava – 394. dio: Ergonomski zahtjevi za smanjenje neželjenih biomedicinskih učinaka vizualno izazvane mučnine tijekom gledanja elektroničkih slika (ISO 9241-394:2020; EN ISO 9241-394:2022)  
Ergonomics of human-system interaction – Part 394: Ergonomic requirements for reducing undesirable biomedical effects of visually induced motion sickness during watching electronic images (ISO 9241-394:2020; EN ISO 9241-394:2022)

HRN EN ISO 9241-940:2022 en pr  
Ergonomija interakcije čovjeka i sustava – 940. dio: Procjena taktilnih i haptičkih interakcija (ISO 9241-940:2017; EN ISO 9241-940:2022)  
Ergonomics of human-system interaction – Part 940: Evaluation of tactile and haptic interactions (ISO 9241-940:2017; EN ISO 9241-940:2022)

HRN EN ISO 9241-971:2022 en pr  
Ergonomija interakcije čovjeka i sustava – 971. dio: Pristup taktilnim/haptičkim interaktivnim sustavima (ISO 9241-971:2020; EN ISO 9241-971:2022)  
Ergonomics of human-system interaction – Part 971: Accessibility of tactile/haptic interactive systems (ISO 9241-971:2020; EN ISO 9241-971:2022)

## HZN/TO 182, *Geotehničke konstrukcije*

HRN EN ISO 17892-12:2018/A2:2022 en pr  
Geotehničko istraživanje i ispitivanje – Laboratorijsko ispitivanje tla – 12. dio: Određivanje granice tečenja i granice plastičnosti (ISO 17892-12:2018/Amd 2:2022; EN ISO 17892-12:2018/A2:2022)  
Geotechnical investigation and testing – Laboratory testing of soil – Part 12: Determination of liquid and plastic limits (ISO 17892-12:2018/Amd 2:2022; EN ISO 17892-12:2018/A2:2022)

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

HRN EN ISO 19115-2:2019/A1:2022 en pr  
Geoinformacije – Metapodaci – 2. dio: Proširenja za prikupljanje i obradu (ISO 19115-2:2019/Amd 1:2022; EN ISO 19115-2:2019/A1:2022)  
Geographic information – Metadata – Part 2: Extensions for acquisition and processing (ISO 19115-2:2019/Amd 1:2022; EN ISO 19115-2:2019/A1:2022)

## HZN/TO 215, *Zdravstvena informatika*

HRN EN ISO/IEEE 11073-40101:2022 en pr  
Zdravstvena informatika – Interoperabilnost uređaja – 40101. dio: Osnove – Kibernetska sigurnost – Postupci za procjenu ranjivosti (ISO/IEEE 11073-40101:2022; EN ISO/IEEE 11073-40101:2022)  
Health informatics – Device interoperability – Part 40101: Foundational – Cybersecurity – Processes for vulnerability assessment (ISO/IEEE 11073-40101:2022; EN ISO/IEEE 11073-40101:2022)

HRN EN ISO/IEEE 11073-40102:2022 en pr  
Zdravstvena informatika – Interoperabilnost uređaja – 40102. dio: Osnove – Kibernetska sigurnost – Sposobnost ublažavanja (ISO/IEEE 11073-40102:2022; EN ISO/IEEE 11073-40102:2022)  
Health informatics – Device interoperability – Part 40102: Foundational – Cybersecurity – Capabilities for mitigation (ISO/IEEE 11073-40102:2022; EN ISO/IEEE 11073-40102:2022)

HRN EN ISO 27269:2022 en pr  
Zdravstvena informatika – Sažetak međunarodnih pacijentovih medicinskih podataka (ISO 27269:2021; EN ISO 27269:2022)  
Health informatics – International patient summary (ISO 27269:2021; EN ISO 27269:2022)

## HZN/TO 217, *Kozmetika*

HRN EN ISO 24444:2020/A1:2022 en pr  
Kozmetika – Metode ispitivanja sredstava za zaštitu od sunca – In vivo određivanje faktora zaštite od sunca (SPF) (ISO 24444:2019/Amd 1:2022; EN ISO 24444:2020/A1:2022)  
Cosmetics – Sun protection test methods – In vivo determination of the sun protection factor (SPF) (ISO 24444:2019/Amd 1:2022; EN ISO 24444:2020/A1:2022)

## HZN/TO 503, *Metalni materijali*

HRN EN 851:2022 en pr  
Aluminij i aluminijeve legure – Rondele i materijal za rondule za proizvodnju kuhinjskog posuđa – Specifikacije (EN 851:2022)  
Aluminium and aluminium alloys – Circle and circle stock for the production of culinary utensils – Specifications (EN 851:2022)

HRN EN 941:2022 en pr  
Aluminij i aluminijeve legure – Rondele i materijal za rondule za proizvode opće namjene – Specifikacije (EN 941:2022)  
Aluminium and aluminium alloys – Circle and circle stock for the production of general applications – Specifications (EN 941:2022)

HRN EN ISO 9647:2022 en pr  
Čelik – Određivanje sadržaja vanadija – Metoda plamene atomske apsorpcijske spektrometrije (FAAS) (ISO 9647:2020; EN ISO 9647:2022)  
Steel – Determination of vanadium content – Flame atomic absorption spectrometric method (FAAS) (ISO 9647:2020; EN ISO 9647:2022)

HRN EN 10169:2022 en pr  
Kontinuirano organski prevučeni (prevučeni koluti) plosnati čelični proizvodi – Tehnički uvjeti isporuke (EN 10169:2022)  
Continuously organic coated (coil coated) steel flat products – Technical delivery conditions (EN 10169:2022)

HRN EN ISO 11652:2022 en pr  
Čelik i željezo – Određivanje sadržaja kobalta – Metoda plamene atomske apsorpcijske spektrometrije (ISO 11652:1997; EN ISO 11652:2022)  
Steel and iron – Determination of cobalt content – Flame atomic absorption spectrometric method (ISO 11652:1997; EN ISO 11652:2022)

HRN EN ISO 18203:2022 en pr  
Čelik – Određivanje debljine površinski kaljenih slojeva (ISO 18203:2016; EN ISO 18203:2022)  
Steel – Determination of the thickness of surface-hardened layers (ISO 18203:2016; EN ISO 18203:2022)

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

HRN EN ISO 2080:2022 en pr  
Metalne i druge anorganske prevlake – Površinska obrada, metalne i druge anorganske prevlake – Terminološki rječnik (ISO 2080:2022; EN ISO 2080:2022)  
Metallic and other inorganic coatings – Surface treatment, metallic and other inorganic coatings – Vocabulary (ISO 2080:2022; EN ISO 2080:2022)

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

HRN EN ISO 10423:2022 en pr  
Industrija nafte i prirodnog plina – Oprema za bušenje i proizvodnju – Oprema za bušotinske glave i erupcijske uređaje (ISO 10423:2022; EN ISO 10423:2022)  
Petroleum and natural gas industries – Drilling and production equipment – Wellhead and christmas tree equipment (ISO 10423:2022; EN ISO 10423:2022)

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

HRN EN 74-1:2022 en pr  
Spojnice, umetci i ležajne ploče za potporne i radne skele – 1. dio: Spojnice za cijevi – Zahtjevi i postupci ispitivanja (EN 74-1:2022)  
Couplers, spigot pins and baseplates for use in falsework and scaffolds – Part 1: Couplers for tubes – Requirements and test procedures (EN 74-1:2022)

HRN EN 74-2:2022 en pr  
Spojnice, umetci i ležajne ploče za potporne i radne skele – 2. dio: Posebne spojnice – Zahtjevi i postupci ispitivanja (EN 74-2:2022)  
Couplers, spigot pins and baseplates for use in falsework and scaffolds – Part 2: Special couplers – Requirements and test procedures (EN 74-2:2022)



HRN EN 15512:2022 en pr  
Čelični nepokretni skladišni sustavi – Podesivi sustavi polica za palete – Načela za projektiranje konstrukcija (EN 15512:2020+A1:2022)  
Steel static storage systems – Adjustable pallet racking systems – Principles for structural design (EN 15512:2020+A1:2022)

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

HRN EN 17467:2022 en pr  
Površine sportskih terena – Metoda ispitivanja za određivanje zaostale deformacije sintetičkih ili organskih granula za ispunu nakon statičkog opterećenja (EN 17467:2022)  
Surfaces for sports areas – Test method for the determination of the residual deformation of synthetic or organic infill granules after static load (EN 17467:2022)

#### **HZN/TO 525, Hidroizolacijski materijali i proizvodi za pokrivanje krovova**

HRN EN 17468-2:2022 en pr  
Proizvodi od cementa ojačanog vlaknima – Određivanje otpornosti na izvlačenje i posmik i proračuni čvrstoće na savijanje – 2. dio: Valovite ploče (EN 17468-2:2022)  
Fibre cement products – Determination of pull through and shear resistance and bending strength calculations – Part 2: Profiled sheets (EN 17468-2:2022)

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

HRN EN 16186-3:2022 en pr  
Željeznički sustav – Upravljačnica – 3. dio: Projektiranje zaslona za željeznička vozila (EN 16186-3:2022)  
Railway applications – Driver's cab – Part 3: Design of displays for heavy rail vehicles (EN 16186-3:2022)

#### **HZN/TO 529, Granici, dizalice i prenosila neprekidne dobave**

HRN EN 619:2022 en pr  
Prenosila i sustavi neprekidne dobave – Sigurnosni zahtjevi za opremu mehaničke dobave komadnog tereta (EN 619:2022)  
Continuous handling equipment and systems – Safety requirements for equipment for mechanical handling of unit loads (EN 619:2022)

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

HRN EN ISO 489:2022 en pr  
Plastika – Određivanje indeksa loma (ISO 489:2022; EN ISO 489:2022)  
Plastics – Determination of refractive index (ISO 489:2022; EN ISO 489:2022)

HRN EN ISO 2078:2022 en pr  
Stakleni tekstil – Pređa – Označavanje (ISO 2078:2022; EN ISO 2078:2022)  
Textile glass – Yarns – Designation (ISO 2078:2022; EN ISO 2078:2022)

HRN EN ISO 3146:2022 en pr  
Plastika – Određivanje ponašanja pri taljenju (tališta ili područja taljenja) polukristalastih polimera metodama kapilarne cijevi i polarizacijskog mikroskopa (ISO 3146:2022; EN ISO 3146:2022)  
Plastics – Determination of melting behaviour (melting temperature or melting range) of semi-crystalline polymers by capillary tube and polarizing-microscope methods (ISO 3146:2022; EN ISO 3146:2022)

HRN EN ISO 4671:2022 en pr  
Gumena i plastična crijeva i crijevnih uređaja – Metode mjerenja dimenzija crijeva i dužina crijevnih uređaja (ISO 4671:2022; EN ISO 4671:2022)  
Rubber and plastics hoses and hose assemblies – Methods of measurement of the dimensions of hoses and the lengths of hose assemblies (ISO 4671:2022; EN ISO 4671:2022)

HRN EN ISO 11357-7:2022 en pr  
Plastika – Diferencijalna pretražna kalorimetrija – 7. dio: Određivanje kinetike kristalizacije (ISO 11357-7:2022; EN ISO 11357-7:2022)  
Plastics – Differential scanning calorimetry (DSC) – Part 7: Determination of crystallization kinetics (ISO 11357-7:2022; EN ISO 11357-7:2022)

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

HRN EN 17352:2022 en pr  
Strojno pogonjena oprema za kontrolu ulaska pješaka – Sigurnost uporabe – Zahtjevi i metode ispitivanja (EN 17352:2022)  
Power operated pedestrian entrance control equipment – Safety in use – Requirements and test methods (EN 17352:2022)

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

HRN EN ISO 10209:2022 en pr  
Tehnička dokumentacija proizvoda – Terminološki rječnik – Nazivi vezani uz tehničke crteže, definicije proizvoda i pripadajuće dokumentacije (ISO 10209:2022; EN ISO 10209:2022)  
Technical product documentation – Vocabulary – Terms relating to technical drawings, product definition and related documentation (ISO 10209:2022; EN ISO 10209:2022)

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

HRN EN 12975:2022 en pr  
Solarni kolektori – Opći zahtjevi (EN 12975:2022)  
Solar collectors – General requirements (EN 12975:2022)

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

HRN EN ISO 20345:2022 en pr  
Osobna zaštitna oprema – Sigurnosna obuča (ISO 20345:2021; EN ISO 20345:2022)  
Personal protective equipment – Safety footwear (ISO 20345:2021; EN ISO 20345:2022)

HRN EN ISO 20346:2022 en pr  
Osobna zaštitna oprema – Zaštitna obuča (ISO 20346:2021; EN ISO 20346:2022)  
Personal protective equipment – Protective footwear (ISO 20346:2021; EN ISO 20346:2022)

HRN EN ISO 20347:2022 en pr  
Osobna zaštitna oprema – Radna obuča (ISO 20347:2021; EN ISO 20347:2022)  
Personal protective equipment – Occupational footwear (ISO 20347:2021; EN ISO 20347:2022)

#### **HZN/TO 563, Sigurnost strojeva**

HRN EN ISO 22291:2022 en pr  
Sigurnosni zahtjevi za strojeve za proizvodnju netkanih tekstila mokrim postupkom (ISO 22291:2022; EN ISO 22291:2022)  
Safety requirements for wetlaid-nonwoven machinery (ISO 22291:2022; EN ISO 22291:2022)

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

HRN EN 13708:2022 en pr  
Hrana – Dokazivanje primjene postupka ozračivanja u namirnicama koje sadrže kristalični šećer metodom elektron-spinske rezonancijske (ESR) spektroskopije (EN 13708:2022)  
Foodstuffs – Detection of irradiated food containing crystalline sugar by ESR spectroscopy (EN 13708:2022)

#### **HZN/TO 569, Hrana za životinje**

HRN EN 17504:2022 en pr  
Hrana za životinje: Metode uzorkovanja i analize – Određivanje gosipola u pamukovom zrnu i hrani za životinje sa LC-MS/MS (EN 17504:2022)  
Animal feeding stuffs: Methods of sampling and analysis – Determination of gossypol in cotton seed and feeding stuff by LC-MS/MS (EN 17504:2022)

#### **HZN/TO 577, Metode ispitivanja za karakterizaciju krutih i tekućih sastavnica i opterećenja okoliša**

HRN EN ISO 10390:2022 en pr  
Tlo, obrađeni biootpad i mulj – Određivanje pH (ISO 10390:2021; EN ISO 10390:2022)  
Soil, treated biowaste and sludge – Determination of pH (ISO 10390:2021; EN ISO 10390:2022)

## **HZN/TO 582, Informacijska sigurnost i upravljanje kontinuitetom poslovanja**

HRN EN ISO/IEC 29151:2022 en pr  
Informacijska tehnologija – Sigurnosne tehnike – Kodeks postupaka za zaštitu osobnih identifikacijskih podataka (ISO/IEC 29151:2017; EN ISO/IEC 29151:2022)  
Information technology – Security techniques – Code of practice for personally identifiable information protection (ISO/IEC 29151:2017; EN ISO/IEC 29151:2022)

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

HRN EN IEC 60034-7:2022 en pr  
Rotacijski električni strojevi – 7. dio: Klasificiranje tipova konstrukcije, načina montaže i smještaja priključne kutije (IM kod) (IEC 60034-7:2020; EN IEC 60034-7:2022)  
Rotating electrical machines – Part 7: Classification of types of construction, mounting arrangements and terminal box position (IM Code) (IEC 60034-7:2020; EN IEC 60034-7:2022)

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

HRN EN 17624:2022 en pr  
Određivanje granica eksplozivnosti plinova i para pri povišenim tlakovima, povišenim temperaturama i oksidatorima koji nisu zrak (EN 17624:2022)  
Determination of explosion limits of gases and vapours at elevated pressures, elevated temperatures or with oxidizers other than air (EN 17624:2022)

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

HRN EN IEC 60598-1:2021/A11:2022 en pr  
Svjetiljke – 1. dio: Opći zahtjevi i ispitivanja (EN IEC 60598-1:2021/A11:2022)  
Luminaires – Part 1: General requirements and tests (EN IEC 60598-1:2021/A11:2022)

HRN EN IEC 62442-1:2022 en pr  
Energetske značajke predspojnih naprava – 1. dio: Predspojne naprave za fluorescentne žarulje – Mjerne metode za određivanje ukupne ulazne snage krugova predspojne naprave i njezine iskoristivosti (IEC 62442-1:2022; EN IEC 62442-1:2022)  
Energy performance of lamp controlgear – Part 1: Controlgear for fluorescent lamps – Method of measurement to determine the total input power of controlgear circuits and the efficiency of controlgear (IEC 62442-1:2022; EN IEC 62442-1:2022)

HRN EN IEC 62442-2:2022 en pr  
Energetske značajke predspojnih naprava – 2. dio: Predspojne naprave za visokoučinkovite žarulje s izbojem (osim fluorescentnih žarulja) – Mjerna metoda za određivanje učinkovitosti predspojne naprave (IEC 62442-2:2022; EN IEC 62442-2:2022)  
Energy performance of lamp controlgear – Part 2: Controlgear for discharge lamps (excluding low-pressure mercury fluorescent lamps) – Method of measurement to determine the efficiency of controlgear (IEC 62442-2:2022; EN IEC 62442-2:2022)

HRN EN IEC 62442-3:2022 en pr  
Energetske značajke predspojnih naprava – 3. dio: Predspojne naprave za volframove halogene žarulje i svjetleće diode – Mjerna metoda za određivanje učinkovitosti predspojne naprave (IEC 62442-3:2022; EN IEC 62442-3:2022)  
Energy performance of lamp controlgear – Part 3: Controlgear for tungsten-halogen lamps and LED light sources – Method of measurement to determine the efficiency of controlgear (IEC 62442-3:2022; EN IEC 62442-3:2022)

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

HRN EN IEC 61968-100:2022 en pr  
Integracija aplikacija u elektroprivredi – Sučelja za sustave upravljanja u distribuciji – 100. dio: IEC-ovi profili za implementaciju za integraciju aplikacija (IEC 61968-100:2022; EN IEC 61968-100:2022)  
Application integration at electric utilities – System interfaces for distribution management – Part 100: IEC Implementation profiles for application integration (IEC 61968-100:2022; EN IEC 61968-100:2022)

HRN EN IEC 61970-301:2020/A1:2022 en pr  
Sučelje za aplikacije vođenja elektroenergetskog sustava (EMS-API) – 301. dio: Osnove zajedničkog modela podataka (CIM) (IEC 61970-301:2020/am1:2022; EN IEC 61970-301:2020/A1:2022)  
Energy management system application program interface (EMS-API) – Part 301: Common information model (CIM) base (IEC 61970-301:2020/am1:2022; EN IEC 61970-301:2020/A1:2022)

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

HRN EN IEC 60335-2-82:2022 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-82: Posebni zahtjevi za automate za zabavu i osobne usluge (IEC 60335-2-82:2017; EN IEC 60335-2-82:2022)  
Household and similar electrical appliances – Safety – Part 2-82: Particular requirements for amusement machines and personal service machines (IEC 60335-2-82:2017; EN IEC 60335-2-82:2022)

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

HRN EN IEC 62872-2:2022 en pr  
Mjerenje, vođenje i automatizacija industrijskih procesa – 2. dio: Internet stvari (IoT) – Okvir primjene za upravljanje energijom u industrijskim postrojenjima s obzirom na promjene potražnje (IEC 62872-2:2022; EN IEC 62872-2:2022)  
Industrial-process measurement, control and automation – Part 2: Internet of Things (IoT) – Application framework for industrial facility demand response energy management (IEC 62872-2:2022; EN IEC 62872-2:2022)

## **HZN/TO E72, Naprave za automatsko upravljanje u kućanstvu**

HRN EN 60730-1:2016/A2:2022 en pr  
Električne naprave za automatsko upravljanje – 1. dio: Opći zahtjevi (IEC 60730-1:2013/am2:2020; EN 60730-1:2016/A2:2022)  
Automatic electrical controls – Part 1: General requirements (IEC 60730-1:2013/am2:2020; EN 60730-1:2016/A2:2022)

## **HZN/TO E76, Sigurnost optičkoga zračenja i laserska oprema**

HRN EN 60825-1:2015/A11:2021/lpr.1:2022 en pr  
Sigurnost laserskih proizvoda – 1. dio: Klasifikacija opreme i zahtjevi (EN 60825-1:2014/A11:2021/AC:2022)  
Safety of laser products – Part 1: Equipment classification and requirements (EN 60825-1:2014/A11:2021/AC:2022)

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

HRN EN IEC 60728-115:2022 en pr  
Kabelske mreže za televizijske signale, zvučne signale i usluge uzajamnog djelovanja – 115. dio: Optički sustavi za radiodifuzijski prijenos signala u zgradama (IEC 60728-115:2022; EN IEC 60728-115:2022)  
Cable networks for television signals, sound signals and interactive services – Part 115: In-building optical systems for broadcast signal transmissions (IEC 60728-115:2022; EN IEC 60728-115:2022)

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

HRI CLC/TR 50713:2022 en pr  
Razumno predvidljivi uvjeti uporabe kada se odnose na procjenu izloženosti elektromagnetskom polju (CLC/TR 50713:2021)  
Reasonably Foreseeable Use Conditions when referring to EMF Exposure Assessment (CLC/TR 50713:2021)

## **HZN/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama**

HRN EN IEC 61000-4-20:2022 en pr  
Elektromagnetska kompatibilnost (EMC) – Dio 4-20: Ispitne i mjerne tehnike – Ispitivanje emisije i otpornosti u poprečnim elektromagnetskim (TEM) valovodima (IEC 61000-4-20:2022; EN IEC 61000-4-20:2022)  
Electromagnetic compatibility (EMC) – Part 4-20: Testing and measurement techniques – Emission and immunity testing in transverse electromagnetic (TEM) waveguides (IEC 61000-4-20:2022; EN IEC 61000-4-20:2022)

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

HRN EN 61094-2:2012/A1:2022 en pr  
Elektroakustika – Mjerni mikrofoni – 2. dio: Primarna metoda za laboratorijsku kalibraciju mjernih mikrofona tehnikom recipročnosti (IEC 61094-2:2009/am1:2022; EN 61094-2:2009/A1:2022)  
Electroacoustics – Measurement microphones – Part 2: Primary method for pressure calibration of laboratory standard microphones by the reciprocity technique (IEC 61094-2:2009/am1:2022; EN 61094-2:2009/A1:2022)

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

HRN EN 300 175-1 V2.9.1:2022 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 1. dio: Pregled (EN 300 175-1 V2.9.1:2022)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 1: Overview (EN 300 175-1 V2.9.1:2022)

HRN EN 300 175-2 V2.9.1:2022 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 2. dio: Fizički sloj (PHL) (EN 300 175-2 V2.9.1:2022)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 2: Physical Layer (PHL) (EN 300 175-2 V2.9.1:2022)

HRN EN 300 175-3 V2.9.1:2022 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 3. dio: Sloj upravljanja pristupa prijenosnom mediju (MAC) (EN 300 175-3 V2.9.1:2022)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 3: Medium Access Control (MAC) layer (EN 300 175-3 V2.9.1:2022)

HRN EN 300 175-4 V2.9.1:2022 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 4. dio: Sloj upravljanja podatkovnim linkom (DLC) (EN 300 175-4 V2.9.1:2022)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 4: Data Link Control (DLC) layer (EN 300 175-4 V2.9.1:2022)

HRN EN 300 175-5 V2.9.1:2022 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 5. dio: Mrežni (NWK) sloj (EN 300 175-5 V2.9.1:2022)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 5: Network (NWK) layer (EN 300 175-5 V2.9.1:2022)

HRN EN 300 175-6 V2.9.1:2022 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 6. dio: Identiteti i adresiranje (EN 300 175-6 V2.9.1:2022)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 6: Identities and addressing (EN 300 175-6 V2.9.1:2022)

HRN EN 300 175-7 V2.9.1:2022 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 7. dio: Značajke sigurnosti (EN 300 175-7 V2.9.1:2022)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 7: Security features (EN 300 175-7 V2.9.1:2022)

HRN EN 300 175-8 V2.9.1:2022 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 8. dio: Kodiranje i prijenos govora i zvuka (EN 300 175-8 V2.9.1:2022)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 8: Speech and audio coding and transmission (EN 300 175-8 V2.9.1:2022)

HRN EN 300 338-7 V1.1.1:2022 en pr  
Tehničke značajke i metode mjerenja opreme za generiranje, odašiljanje i prijam digitalnog selektivnog poziva (DSP) u pomorskoj MF, MF/HF i/ili VHF pokretnoj službi – 7. dio: Implementacija sustava upravljanja alarmima zapovjedničkog mosta (AZM) u DSC radijskoj opremi (EN 300 338-7 V1.1.1:2022)  
Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 7: Implementation of Bridge Alert Management (BAM) in DSC radio equipment (EN 300 338-7 V1.1.1:2022)

HRN EN 303 105-1 V1.1.1:2022 en pr  
Digitalna videodifuzija (DVB) – Sljedeća generacija sustava emitiranja prema ručnom uređaju, specifikacija fizičkog sloja (DVB-NGH) – 1. dio: Temeljni profil (EN 303 105-1 V1.1.1:2022)  
Digital Video Broadcasting (DVB) – Next Generation broadcasting system to Handheld, physical layer specification (DVB-NGH) – Part 1: Base Profile (EN 303 105-1 V1.1.1:2022)

HRN EN 303 105-2 V1.1.1:2022 en pr  
Digitalna videodifuzija (DVB) – Sljedeća generacija sustava emitiranja prema ručnom uređaju, specifikacija fizičkog sloja (DVB-NGH) – 2. dio: MIMO profil (EN 303 105-2 V1.1.1:2022)  
Digital Video Broadcasting (DVB) – Next Generation broadcasting system to Handheld, physical layer specification (DVB-NGH) – Part 2: MIMO Profile (EN 303 105-2 V1.1.1:2022)

HRN EN 303 105-3 V1.1.1:2022 en pr  
Digitalna videodifuzija (DVB) – Sljedeća generacija sustava emitiranja prema ručnom uređaju, specifikacija fizičkog sloja (DVB-NGH) – 3. dio: Hibridni profil (EN 303 105-3 V1.1.1:2022)  
Digital Video Broadcasting (DVB) – Next Generation broadcasting system to Handheld, physical layer specification (DVB-NGH) – Part 3: Hybrid Profile (EN 303 105-3 V1.1.1:2022)

HRN EN 303 105-4 V1.1.1:2022 en pr  
Digitalna videodifuzija (DVB) – Sljedeća generacija sustava emitiranja prema ručnom uređaju, specifikacija fizičkog sloja (DVB-NGH) – 4. dio: Hibridni MIMO profil (EN 303 105-4 V1.1.1:2022)  
Digital Video Broadcasting (DVB) – Next Generation broadcasting system to Handheld, physical layer specification (DVB-NGH) – Part 4: Hybrid MIMO Profile (EN 303 105-4 V1.1.1:2022)

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

HRN EN 15602:2022 en pr  
Privatne zaštitarske usluge – Nazivlje (EN 15602:2022)  
Private security services – Terminology (EN 15602:2022)

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

HRN EN ISO 8130-4:2022 en pr  
Praškasti prekrivni materijali – 4. dio: Izračunavanje donje granice eksplozivnosti (ISO 8130-4:2021; EN ISO 8130-4:2022)  
Coating powders – Part 4: Calculation of lower explosion limit (ISO 8130-4:2021; EN ISO 8130-4:2022)

HRN EN ISO 16925:2022 en pr  
Boje i lakovi – Određivanje otpornosti prevlaka na tlak vodenog mlaza (ISO 16925:2021; EN ISO 16925:2022)  
Paints and varnishes – Determination of the resistance of coatings to pressure water-jetting (ISO 16925:2021; EN ISO 16925:2022)

HRS CEN/TS 17700-1:2022 en pr  
Biljni biostimulansi – Tvrdnje – 1. dio: Opća načela (CEN/TS 17700-1:2022)  
Plant biostimulants – Claims – Part 1: General principles (CEN/TS 17700-1:2022)

HRS CEN/TS 17700-2:2022 en pr  
Biljni biostimulansi – Tvrdnje – 2. dio: Učinkovitost iskoristavanja hranjivih tvari koja proizlazi iz upotrebe biljnog biostimulansa (CEN/TS 17700-2:2022)  
Plant biostimulants – Claims – Part 2: Nutrient use efficiency resulting from the use of a plant biostimulant (CEN/TS 17700-2:2022)

HRS CEN/TS 17700-3:2022 en pr  
Biljni biostimulansi – Tvrdnje – 3. dio: Otpornost na abiotički stres koja proizlazi iz upotrebe biljnog biostimulansa (CEN/TS 17700-3:2022)  
Plant biostimulants – Claims – Part 3: Tolerance to abiotic stress resulting from the use of a plant biostimulant (CEN/TS 17700-3:2022)

HRS CEN/TS 17700-4:2022 en pr  
Biljni biostimulansi – Tvrdnje – 4. dio: Određivanje obilježja kvalitete koja proizlaze iz upotrebe biljnog biostimulansa (CEN/TS 17700-4:2022)  
Plant biostimulants – Claims – Part 4: Determination of quality traits resulting from the use of a plant biostimulant (CEN/TS 17700-4:2022)



- HRS CEN/TS 17700-5:2022 en pr  
Biljni biostimulansi – Tvrdnje – 5. dio: Određivanje dostupnosti hranjivih tvari zarobljenih u tlu ili rizosferi (CEN/TS 17700-5:2022)  
Plant biostimulants – Claims – Part 5: Determination of availability of confined nutrients in the soil or rhizosphere (CEN/TS 17700-5:2022)
- HRS CEN/TS 17701-1:2022 en pr  
Biljni biostimulansi – Određivanje odabranih elemenata – 1. dio: Digestija zlatotopkom za naknadno određivanje elemenata (CEN/TS 17701-1:2022)  
Plant biostimulants – Determination of specific elements – Part 1: Digestion by aqua regia for subsequent determination of elements (CEN/TS 17701-1:2022)
- HRS CEN/TS 17701-2:2022 en pr  
Biljni biostimulansi – Određivanje odabranih elemenata – 2. dio: Određivanje ukupnog sadržaja Cd, Pb, Ni, As, Cr, Cu i Zn (CEN/TS 17701-2:2022)  
Plant biostimulants – Determination of specific elements – Part 2: Determination of total content of Cd, Pb, Ni, As, Cr, Cu and Zn (CEN/TS 17701-2:2022)
- HRS CEN/TS 17701-3:2022 en pr  
Biljni biostimulansi – Određivanje odabranih elemenata – 3. dio: Određivanje žive (CEN/TS 17701-3:2022)  
Plant biostimulants – Determination of specific elements – Part 3: Determination of mercury (CEN/TS 17701-3:2022)
- HRS CEN/TS 17702-1:2022 en pr  
Biljni biostimulansi – Uzorkovanje i priprema uzoraka – 1. dio: Uzorkovanje (CEN/TS 17702-1:2022)  
Plant biostimulants – Sampling and sample preparation – Part 1: Sampling (CEN/TS 17702-1:2022)
- HRS CEN/TS 17702-2:2022 en pr  
Biljni biostimulansi – Uzorkovanje i priprema uzoraka – 2. dio: Priprema uzoraka (CEN/TS 17702-2:2022)  
Plant biostimulants – Sampling and sample preparation – Part 2: Sample preparation (CEN/TS 17702-2:2022)
- HRS CEN/TS 17703:2022 en pr  
Biljni biostimulansi – Određivanje kroma (VI) (CEN/TS 17703:2022)  
Plant biostimulants – Determination of chromium(VI) (CEN/TS 17703:2022)
- HRS CEN/TS 17704:2022 en pr  
Biljni biostimulansi – Određivanje suhe tvari (CEN/TS 17704:2022)  
Plant biostimulants – Determination of dry matter (CEN/TS 17704:2022)
- HRS CEN/TS 17705:2022 en pr  
Biljni biostimulansi – Određivanje fosfonata (CEN/TS 17705:2022)  
Plant biostimulants – Determination of phosphonates (CEN/TS 17705:2022)
- HRS CEN/TS 17706:2022 en pr  
Biljni biostimulansi – Određivanje anorganskog arsena (CEN/TS 17706:2022)  
Plant biostimulants – Determination of inorganic arsenic (CEN/TS 17706:2022)
- HRS CEN/TS 17707:2022 en pr  
Biljni biostimulansi – Određivanje sadržaja kvasaca i plijesni (CEN/TS 17707:2022)  
Plant biostimulants – Determination of the yeast and mould content (CEN/TS 17707:2022)
- HRS CEN/TS 17708:2022 en pr  
Biljni biostimulansi – Priprema uzoraka za mikrobiološku analizu (CEN/TS 17708:2022)  
Plant biostimulants – Preparation of sample for microbial analysis (CEN/TS 17708:2022)
- HRS CEN/TS 17709:2022 en pr  
Biljni biostimulansi – Određivanje Azotobacter spp. (CEN/TS 17709:2022)  
Plant biostimulants – Determination of Azotobacter spp. (CEN/TS 17709:2022)
- HRS CEN/TS 17710:2022 en pr  
Biljni biostimulansi – Dokazivanje Listeria monocytogenes (CEN/TS 17710:2022)  
Plant biostimulants – Detection of Listeria monocytogenes (CEN/TS 17710:2022)
- HRS CEN/TS 17711:2022 en pr  
Biljni biostimulansi – Dokazivanje Vibrio spp. (CEN/TS 17711:2022)  
Plant biostimulants – Detection of Vibrio spp. (CEN/TS 17711:2022)
- HRS CEN/TS 17712:2022 en pr  
Biljni biostimulansi – Dokazivanje Staphylococcus aureus (CEN/TS 17712:2022)  
Plant biostimulants – Detection of Staphylococcus aureus (CEN/TS 17712:2022)
- HRS CEN/TS 17713:2022 en pr  
Biljni biostimulansi – Dokazivanje Azospirillum spp. (CEN/TS 17713:2022)  
Plant biostimulants – Determination of Azospirillum spp. (CEN/TS 17713:2022)
- HRS CEN/TS 17714:2022 en pr  
Biljni biostimulansi – Dokazivanje koncentracije mikroorganizama (CEN/TS 17714:2022)  
Plant biostimulants – Determination of microorganisms' concentration (CEN/TS 17714:2022)
- HRS CEN/TS 17715:2022 en pr  
Biljni biostimulansi – Dokazivanje Shigella spp. (CEN/TS 17715:2022)  
Plant biostimulants – Detection of Shigella spp. (CEN/TS 17715:2022)
- HRS CEN/TS 17716:2022 en pr  
Biljni biostimulansi – Dokazivanje Escherichia coli (CEN/TS 17716:2022)  
Plant biostimulants – Determination of Escherichia coli (CEN/TS 17716:2022)
- HRS CEN/TS 17717:2022 en pr  
Biljni biostimulansi – Dokazivanje Salmonella spp. (CEN/TS 17717:2022)  
Plant biostimulants – Detection of Salmonella spp. (CEN/TS 17717:2022)
- HRS CEN/TS 17718:2022 en pr  
Biljni biostimulansi – Određivanje Rhizobium spp. (CEN/TS 17718:2022)  
Plant biostimulants – Determination of Rhizobium spp. (CEN/TS 17718:2022)
- HRS CEN/TS 17719:2022 en pr  
Biljni biostimulansi – Određivanje broja anaeroba na ploči (CEN/TS 17719:2022)  
Plant biostimulants – Determination of the anaerobic plate count (CEN/TS 17719:2022)
- HRS CEN/TS 17720:2022 en pr  
Biljni biostimulansi – Određivanje pH Enterococcaceae (CEN/TS 17720:2022)  
Plant biostimulants – Determination of Enterococcaceae (CEN/TS 17720:2022)
- HRS CEN/TS 17721:2022 en pr  
Biljni biostimulansi – Određivanje pH vrijednosti tekućih mikrobnih biljnih biostimulansa/pH vrijednosti u mikrobnim proizvodima – Određivanje pH vrijednosti (CEN/TS 17721:2022)  
Plant biostimulants – Determination of the pH for liquid microbial plant biostimulants/pH in microbial products – Determination of pH (CEN/TS 17721:2022)
- HRS CEN/TS 17722:2022 en pr  
Biljni biostimulansi – Određivanje mikoriznih gljiva (CEN/TS 17722:2022)  
Plant biostimulants – Determination of Mycorrhizal fungi (CEN/TS 17722:2022)
- HRS CEN/TS 17723:2022 en pr  
Biljni biostimulansi – Određivanje klorida (CEN/TS 17723:2022)  
Plant biostimulants – Determination of chloride (CEN/TS 17723:2022)
- HRS CEN/TS 17724:2022 en pr  
Biljni biostimulansi – Nazivlje (CEN/TS 17724:2022)  
Plant Biostimulants – Terminology (CEN/TS 17724:2022)
- HRS CEN/TS 17725:2022 en pr  
Biljni biostimulansi – Određivanje količine (označene masom ili volumenom) (CEN/TS 17725:2022)  
Plant biostimulants – Determination of the quantity (indicated by mass or volume) (CEN/TS 17725:2022)

## HZN/TU I2, Strojarstvo 2

- HRN EN 308:2022 en pr  
Izmjenjivači topline – Postupci ispitivanja za utvrđivanje značajka komponenti za povrat topline zrak-zrak (EN 308:2022)  
Heat exchangers – Test procedures for establishing performance of air to air heat recovery components (EN 308:2022)

HRN EN 474-1:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 1. dio: Opći zahtjevi (EN 474-1:2022)  
Earth-moving machinery – Safety – Part 1: General requirements (EN 474-1:2022)

HRN EN 474-2:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 2. dio: Zahtjevi za traktorske dozere (EN 474-2:2022)  
Earth-moving machinery – Safety – Part 2: Requirements for tractor-doers (EN 474-2:2022)

HRN EN 474-3:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 3. dio: Zahtjevi za utovarivače (EN 474-3:2022)  
Earth-moving machinery – Safety – Part 3: Requirements for loaders (EN 474-3:2022)

HRN EN 474-4:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 4. dio: Zahtjevi za bagere utovarivače (EN 474-4:2022)  
Earth-moving machinery – Safety – Part 4: Requirements for backhoe loaders (EN 474-4:2022)

HRN EN 474-5:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 5. dio: Zahtjevi za hidraulične bagere (EN 474-5:2022)  
Earth-moving machinery – Safety – Part 5: Requirements for hydraulic excavators (EN 474-5:2022)

HRN EN 474-6:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 6. dio: Zahtjevi za kamione kiperne (EN 474-6:2022)  
Earth-moving machinery – Safety – Part 6: Requirements for dumpers (EN 474-6:2022)

HRN EN 474-7:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 7. dio: Zahtjevi za strugače (EN 474-7:2022)  
Earth-moving machinery – Safety – Part 7: Requirements for scrapers (EN 474-7:2022)

HRN EN 474-8:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 8. dio: Zahtjevi za ralice (EN 474-8:2022)  
Earth-moving machinery – Safety – Part 8: Requirements for graders (EN 474-8:2022)

HRN EN 474-9:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 9. dio: Zahtjevi za polagače cijevi (EN 474-9:2022)  
Earth-moving machinery – Safety – Part 9: Requirements for pipelayers (EN 474-9:2022)

HRN EN 474-10:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 10. dio: Zahtjevi za rovokopače (EN 474-10:2022)  
Earth-moving machinery – Safety – Part 10: Requirements for trenchers (EN 474-10:2022)

HRN EN 474-11:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 11. dio: Zahtjevi za strojeve za zbijanje zemlje i otpada na odlagalištima (EN 474-11:2022)  
Earth-moving machinery – Safety – Part 11: Requirements for earth-and landfill compactors (EN 474-11:2022)

HRN EN 474-12:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 12. dio: Zahtjevi za kabelaške bagere (EN 474-12:2022)  
Earth-moving machinery – Safety – Part 12: Requirements for cable excavators (EN 474-12:2022)

HRN EN 474-13:2022 en pr  
Strojevi za zemljane radove – Sigurnost – 13. dio: Zahtjevi za valjke (EN 474-13:2022)  
Earth-moving machinery – Safety – Part 13: Requirements for rollers (EN 474-13:2022)

HRN EN 17449:2022 en pr  
Sigurnost strojeva – Sigurnosni zahtjevi za završne linije za obradu metalnih traka (EN 17449:2022)  
Safety of machinery – Safety requirements to finishing lines for metal strip (EN 17449:2022)

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

HRN EN ISO 5832-6:2022 en pr  
Kirurški implantati – Metalni materijali – 6. dio: Kovana legura kobalta, nikla, kroma i molibdena (ISO 5832-6:2022; EN ISO 5832-6:2022)  
Implants for surgery – Metallic materials – Part 6: Wrought cobalt-nickel-chromium-molybdenum alloy (ISO 5832-6:2022; EN ISO 5832-6:2022)

HRN EN ISO 8536-15:2022 en pr  
Oprema za infuziju za medicinsku primjenu – 15. dio: Pribor za infuziju sa zaštitom od svjetla za jednokratnu upotrebu (ISO 8536-15:2022; EN ISO 8536-15:2022)  
Infusion equipment for medical use – Part 15: Light-protective infusion sets for single use (ISO 8536-15:2022; EN ISO 8536-15:2022)

HRN EN ISO 20126:2022 en pr  
Stomatologija – Ručne četkice za zube – Opći zahtjevi i metode ispitivanja (ISO 20126:2022; EN ISO 20126:2022)  
Dentistry – Manual toothbrushes – General requirements and test methods (ISO 20126:2022; EN ISO 20126:2022)

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

HRN EN 3228:2022 en pr  
Zrakoplovstvo – Matice, šesterokutne, ravne, skraćene visine, s normalnim ravnim presjekom, od čelika, prevučene kadmijem – Klasifikacija: 900 MPa (pri temperaturi okoline)/235 °C (EN 3228:2022)  
Aerospace series – Nuts, hexagonal, plain, reduced height, normal across flats, in steel, cadmium plated – Classification: 900 MPa (at ambient temperature)/235 °C (EN 3228:2022)

HRN EN 4641-301:2022 en pr  
Zrakoplovstvo – Kabeli, optički, promjera omotača 125 µm – 301. dio: Čvrsta konstrukcija 50/125 µm GI vlakana nazivnoga vanjskog promjera 1,8 mm – Norma za proizvod (EN 4641-301:2022)  
Aerospace series – Cables, optical 125 µm diameter cladding – Part 301: Tight structure 50/125 µm GI, fibre nominal 1,8 mm, outside diameter – Product standard (EN 4641-301:2022)

## **HZN/TU V1, Elektronika 1**

HRN EN IEC 60749-28:2022 en pr  
Poluvodički uređaji – Metode za mehanička i klimatska ispitivanja – 28. dio: Ispitivanje osjetljivosti na elektrostatičko pražnjenje (ESD) – Model napunjenog uređaja (CDM) – Razina uređaja (IEC 60749-28:2022; EN IEC 60749-28:2022)  
Semiconductor devices – Mechanical and climatic test methods – Part 28: Electrostatic discharge (ESD) sensitivity testing – Charged device model (CDM) – device level (IEC 60749-28:2022; EN IEC 60749-28:2022)

HRN EN IEC 60794-1-404:2022 en pr  
Svjetlovodni kabeli – Dio 1-404: Generička specifikacija – Osnovni postupci ispitivanja svjetlovodnih kabela – Metode električnih ispitivanja – Strujno-temperaturno ispitivanje, metoda H4 (IEC 60794-1-404:2022; EN IEC 60794-1-404:2022)  
Optical fibre cables – Part 1-404: Generic specification – Basic optical cable test procedures – Electrical test methods – Current-temperature test, method H4 (IEC 60794-1-404:2022; EN IEC 60794-1-404:2022)

HRN EN IEC 60794-3:2022 en pr  
Svjetlovodni kabeli – 3. dio: Kabeli za vanjsku primjenu – Sekcijska specifikacija (IEC 60794-3:2022; EN IEC 60794-3:2022)  
Optical fibre cables – Part 3: Outdoor cables – Sectional specification (IEC 60794-3:2022; EN IEC 60794-3:2022)

HRN EN IEC 61169-1-5:2022 en pr  
Radiofrekvencijski konektori – Dio 1-5: Metode električnih ispitivanja – Degradacija vremena porasta (IEC 61169-1-5:2022; EN IEC 61169-1-5:2022)  
Radio frequency connectors – Part 1-5: Electrical test methods – Rise time degradation (IEC 61169-1-5:2022; EN IEC 61169-1-5:2022)

HRN EN IEC 61169-1-6:2022 en pr  
Radiofrekvencijski konektori – Dio 1-6: Metode električnih ispitivanja – Snaga RF (IEC 61169-1-6:2022; EN IEC 61169-1-6:2022)  
Radio frequency connectors – Part 1-6: Electrical test methods – RF power (IEC 61169-1-6:2022; EN IEC 61169-1-6:2022)

HRN EN IEC 61169-21:2022 en pr  
Radiofrekvencijski konektori – 21. dio: Sekcijska specifikacija za radiofrekvencijske konektore s unutarnjim promjerom vanjskog vodiča 9,5 mm (0,374 inča) s vijčanom spojnicom – Karakteristične impedancije 50 Ω (Type SC) (IEC 61169-21:2022; EN IEC 61169-21:2022)  
Radio-frequency connectors – Part 21: Sectional specification for RF connectors with inner diameter of outer conductor 9,5 mm (0,374 in) with screw coupling – Characteristic impedance 50 ohms (Type SC) (IEC 61169-21:2022; EN IEC 61169-21:2022)

HRN EN IEC 61169-67:2022 en pr  
Radiofrekvencijski konektori – 67. dio: Sekcijska specifikacija za navojne triaksijalne konektore niza TRL (IEC 61169-67:2022; EN IEC 61169-67:2022)  
Radio frequency connectors – Part 67: Sectional specification for series TRL threaded triaxial connectors (IEC 61169-67:2022; EN IEC 61169-67:2022)

HRN EN IEC 61169-68:2022 en pr  
Radiofrekvencijski konektori – 68. dio: Sekcijska specifikacija za triaksijalne konektore niza TRK s bajunetnim spajanjem (IEC 61169-68:2022; EN IEC 61169-68:2022)  
Radio-frequency connectors – Part 68: Sectional specification for series TRK bayonet coupling triaxial connectors (IEC 61169-68:2022; EN IEC 61169-68:2022)

HRN EN IEC 61189-2-501:2022 en pr  
Metode ispitivanja za električne materijale, tiskane pločice i druge strukture i sklopove za međusobno povezivanje – Dio 2-501: Metode ispitivanja materijala za strukture za međusobno povezivanje – Mjerenje elastične snage i faktora zadržavanja elastične snage fleksibilnih dielektričnih materijala (IEC 61189-2-501:2022; EN IEC 61189-2-501:2022)  
Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 2-501: Test methods for materials for interconnection structures – Measurement of resilience strength and resilience strength retention factor of flexible dielectric materials (IEC 61189-2-501:2022; EN IEC 61189-2-501:2022)

HRN EN IEC 61753-091-02:2022 en pr  
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Izvedbena norma – Dio 091-02: 3-portni jednomodni nepotpuni svjetlovodni cirkulatori koji nisu opremljeni konektorima za kategoriju C – Kontrolirano okruženje (IEC 61753-091-02:2022; EN IEC 61753-091-02:2022)  
Fibre optic interconnecting devices and passive components – Performance standard – Part 091-02: Non-connectorized 3-port incompletely circulated single-mode fibre optic circulators for category C – Controlled environments (IEC 61753-091-02:2022; EN IEC 61753-091-02:2022)

HRN EN IEC 61754-4:2022 en pr  
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Sučelja svjetlovodnih konektora – 4. dio: Obitelj konektora tipa SC (IEC 61754-4:2022; EN IEC 61754-4:2022)  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 4: Type SC connector family (IEC 61754-4:2022; EN IEC 61754-4:2022)

HRN EN IEC 61754-6:2022 en pr  
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Sučelja svjetlovodnih konektora – 6. dio: Obitelj konektora tipa MU (IEC 61754-6:2022; EN IEC 61754-6:2022)  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 6: Type MU connector family (IEC 61754-6:2022; EN IEC 61754-6:2022)

HRN EN IEC 63373:2022 en pr  
Smjernice za metode ispitivanja dinamičke otpornosti za uređaje za pretvaranje snage koji se temelje na GaN HEMT (IEC 63373:2022; EN IEC 63373:2022)  
Dynamic on-resistance test method guidelines for GaN HEMT based power conversion devices (IEC 63373:2022; EN IEC 63373:2022)

## HZN/TU W1, Energetska elektrotehnika 1

HRN EN 62282-3-2017/A1:2022 en pr  
Tehnologija gorivih ćelija – Dio 3-201: Energetski sustavi stacionarnih gorivih ćelija – Metode ispitivanja značajki za male energetske sustave gorivih ćelija (IEC 62282-3-201:2017/am1:2022; EN 62282-3-201:2017/A1:2022)  
Fuel cell technologies – Part 3-201: Stationary fuel cell power systems – Performance test methods for small fuel cell power systems (IEC 62282-3-201:2017/am1:2022; EN 62282-3-201:2017/A1:2022)

## 1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku

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

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

### HZN/TO 8, Brodogradnja

EN ISO 11591:2020/prA1 en  
Small craft – Field of vision from the steering position (ISO 11591:2020/DAmD 1:2022)  
Mala plovila – Vidno polje s mjesta upravljanja (ISO 11591:2020/DAmD 1:2022)

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

prEN ISO 3679 en  
Determination of flash point – Method for flash no-flash and flash point by small scale closed cup tester (ISO/DIS 3679:2022)

### HZN/TO 120, Koža i obuća

prEN ISO 20535 en  
Footwear – Test method for insoles and insocks – Dimensional change after cycle of wetting and drying (ISO 20535:2019)

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

prEN 17836 en  
Fertilizing products – Description of the physical unit  
Gnojivbeni proizvodi – Opis fizikalne jedinice

### HZN/TO 163, Toplinska izolacija

prEN 15026 en  
Hygrothermal performance of building components and building elements – Assessment of moisture transfer by numerical simulation  
Značajke građevnih dijelova i građevnih dijelova zgrada s obzirom na toplinu i vlagu – Procjena prijenosa vlage numeričkom simulacijom

### HZN/TO 207, Upravljanje okolišem

prEN ISO 14002-2 en  
Environmental management systems – Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area – Part 2: Water (ISO/DIS 14002-2:2022)  
Sustavi upravljanja okolišem – Smjernice za primjenu norme ISO 14001 u postupanju s aspektima i uvjetima okoliša unutar određene teme iz područja zaštite okoliša – 2. dio: Voda (ISO/DIS 14002-2:2022)

prEN ISO 14020 en  
Environmental statements and programmes for products – Principles and general requirements (ISO/DIS 14020:2022)  
Izjave o proizvodima povezane s utjecajem na okoliš i povezani programi – Načela i opći zahtjevi (ISO/DIS 14020:2022)

### HZN/TO 502, Plinski uređaji

prEN 521 en  
Specifications for dedicated liquefied petroleum gas appliances – Portable vapour pressure liquefied petroleum gas appliances  
Specifikacije za uređaje na ukapljeni naftni plin – Prenosivi uređaji koji rade s tlakom plinovite faze ukapljenog naftnog plina

prEN 12309-3 en  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW – Part 3: Requirements, test conditions and test methods  
Plinski sorpcijski uređaji za grijanje i/ili hlađenje s nazivnim toplinskim opterećenjem do 70 kW – 3. dio: Zahtjevi, uvjeti ispitivanja i metode ispitivanja



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

prEN 10305-3 en  
Steel tubes for precision applications – Technical delivery conditions – Part 3: Welded cold sized tubes  
Precizne čelične cijevi – Tehnički uvjeti isporuke – 3. dio: Zavarene hladno valjane cijevi

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

prEN ISO 10062 en  
Corrosion tests in artificial atmosphere at very low concentrations of polluting gas(es) (ISO/DIS 10062:2022)  
Ispitivanje korozije u umjetnoj atmosferi pri vrlo niskim koncentracijama plinovitog (plinovitih) onečišćenja (ISO/DIS 10062:2022)

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

prEN ISO 16961 en  
Petroleum, petrochemical and natural gas industries – Internal coating and lining of steel storage tanks (ISO/DIS 16961:2022)  
Industrija nafte, petrokemije i prirodnoga plina – Unutarnji premazi i zaštita metalnih spremnika za skladištenje (ISO/DIS 16961:2022)

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

prEN 17829 en  
Glass packaging – 28 millimetre-screw finishes for glass containers (MCA range) – Dimensions

## **HZN/TO 522, Karakterizacija i zbrinjavanje otpada**

prEN 1501-4 en  
Refuse collection vehicles – General requirements and safety requirements – Part 4: Noise test code for refuse collection vehicles  
Vozila za skupljanje otpada – Opći i sigurnosni zahtjevi – 4. dio: Ispitivanja buke za vozila za skupljanje otpada

## **HZN/TO 530, Remenski prijenosi, čelična užadi, lanci, kuke za dizalice, trake, omče i pribor**

prEN ISO 7623 en  
Steel cord conveyor belts – Cord-to-coating bond test – Initial test and after thermal treatment (ISO/DIS 7623:2022)  
Transportne trake s čeličnom užadi – Ispitivanje veze užadi i obloge – Početno ispitivanje i ispitivanje nakon toplinske obrade (ISO/DIS 7623:2022)

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

prEN 15347 en  
Plastics – Recycled plastics – Characterisation of sorted plastics wastes  
Plastika – Reciklirana plastika – Karakterizacija plastičnog otpada

prEN 15348 en  
Plastics – Recycled plastics – Characterization of poly(ethylene terephthalate) (PET) recyclates  
Plastika – Reciklirana plastika – Karakterizacija poli(etilen-tereftalnih) (PET) reciklata

## **HZN/TO 534, Spremnici za teret**

prEN 14025 en  
Tanks for the transport of dangerous goods – Metallic pressure tanks – Design and construction  
Spremnici za prijevoz opasnih tvari – Metalni tlačni spremnici – Projektiranje i konstrukcija

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

prEN 12152 en  
Curtain walling – Air permeability – Performance requirements and classification  
Ovješene fasade – Propusnost zraka – Zahtjevi za svojstva i razredba

prEN 12153 en  
Curtain walling – Air permeability – Test method  
Ovješene fasade – Propusnost zraka – Metoda ispitivanja

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

prEN 15091 en  
Sanitary tapware – Electronic opening and closing sanitary tapware  
Sanitarne armature – Elektroničko otvaranje i zatvaranje sanitarnih armatura

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

prEN ISO 5117 en  
Automatic steam traps – Production and performance characteristic tests (ISO/DIS 5117:2022)  
Automatski odvajači kondenzata – Ispitivanja proizvodnih i radnih značajka (ISO/DIS 5117:2022)

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

prEN ISO 11623 en  
Gas cylinders – Composite cylinders and tubes – Periodic inspection and testing (ISO/DIS 11623:2022)  
Plinske boce – Kompozitna konstrukcija – Periodični pregled i ispitivanje (ISO/DIS 11623:2022)

prEN 14570 en  
LPG equipment and accessories – Equipping of overground and underground LPG vessels  
Oprema i pribor za UNP – Opremanje nadzemnih i podzemnih spremnika za UNP

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

prEN 50549-10 en  
Requirements for generating plants to be connected in parallel with distribution networks – Part 10: Tests for conformity assessment of generating units  
Zahtjevi za priključak elektrana na distribucijsku mrežu – 10. dio: Ispitivanja za ocjenjivanje sukladnosti proizvodnih jedinica

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

FprEN 50388-1 en  
Railway Applications – Fixed installations and rolling stock – Technical criteria for the coordination between electric traction power supply systems and rolling stock to achieve interoperability – Part 1: General

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

EN 50341-2-22:2022 en  
Overhead electrical lines exceeding AC 1 kV – Part 2-22: National Normative Aspects (NNA) for Poland (based on EN 50341-1:2012)  
Nadzemni električni vodovi izmjenične struje iznad 1 kV – Dio 2-22: Nacionalni normativni aspekti (NNA) za Poljsku (na temelju EN 50341-1:2012)

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

prEN IEC 62271-207:2022 en  
High-voltage switchgear and controlgear – Part 207: Seismic qualification for gas-insulated switchgear assemblies, metal enclosed and solid-insulation enclosed switchgear for rated voltages above 1 kV (IEC 62271-207 ED3)

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

prEN IEC 61540 en  
Electrical accessories – Portable residual current devices without integral overcurrent protection for household and similar use (PRCDs) (IEC 61540 ED2)  
Električni pribor – Prenosive strujne zaštitne sklopke bez združene nadstrujne zaštite za kućanstvo i sličnu primjenu (PRCD-i) (IEC 61540 ED2)

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

prEN IEC 62990-1:2021/prAA:2022 en  
Workplace Atmospheres – Part 1: Gas detectors – Performance requirements of detectors for toxic gases



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

EN 60061-2:1993/FprA58:2022 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2/am58 ED3)  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2/am58 ED3)

## **HZN/TO E36, Izolatori**

prEN IEC 60437:2022 en  
Radio interference test on high-voltage insulators (IEC 60437 ED3)  
Ispitivanje radio smetnji na visokonaponskim izolatorima (IEC 60437 ED3)

prEN IEC 61462:2022 en  
Composite hollow insulators – Pressurized and unpressurized insulators for use in electrical equipment with AC rated voltage greater than 1 000 V AC and D.C. voltage greater than 1500 V – Definitions, test methods, acceptance criteria and design recommendations (IEC 61462 ED2)  
Kompozitni šuplji izolatori – Izolatori pod tlakom i bez tlaka za uporabu u električnoj opremi izmjeničnog nazivnog napona većeg od 1 000 V i istosmjernog napona većeg od 1 500 V – Definicije, metode ispitivanja, kriteriji prihvatanja i preporuke za konstrukciju (IEC 61462 ED2)

prEN IEC 62772:2022 en  
Composite hollow core station post insulators for substations with a.c. voltage greater than 1 000 V and d.c. voltage greater than 1 500 V – Definitions, test methods and acceptance criteria (IEC 62772 ED2)  
Kompozitni šuplji stanični potporni izolatori za transformatorske stanice izmjeničnog napona većeg od 1 000 V i istosmjernog napona većeg od 1 500 V – Definicije, metode ispitivanja i kriteriji za prihvatanje (IEC 62772 ED2)

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

prEN IEC 62351-9:2022 en  
Power systems management and associated information exchange – Data and communications security – Part 9: Cyber security key management for power system equipment (IEC 62351-9 ED2)  
Upravljanje energetskim sustavima i povezana razmjena podataka – Sigurnost podataka i komunikacija – 9. dio: Upravljanje ključevima kibernetičke sigurnosti opreme energetskih sustava (IEC 62351-9 ED2)

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

prEN IEC 60601-2-46:2022 en  
Medical electrical equipment – Part 2-46: Particular requirements for the basic safety and essential performance of operating tables (IEC 60601-2-46 ED4)  
Medicinska električna oprema – Dio 2-46: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke operacijskih stolova (IEC 60601-2-46 ED4)

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

prEN 50110-1 en  
Operation of electrical installations – Part 1: General requirements  
Pogon električnih postrojenja – 1. dio: Opći zahtjevi

prHD 60364-4-43:2022 en  
Low-voltage electrical installations – Part 4-43: Protection for safety – Protection against overcurrent (IEC 60364-4-43 ED4)  
Niskonaponske električne instalacije – Dio 4-43: Sigurnosna zaštita – Nadstrujna zaštita (IEC 60364-4-43 ED4)

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

prEN IEC 61010-2-203:2022 en  
Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-203: Particular requirements for industrial communication circuits and communication port interconnection (IEC 61010-2-203 ED1)

prEN IEC 61784-5-19:2022 en  
Industrial communication networks – Profiles – Part 5-19: Installation of fieldbuses – Installation profiles for CPF 19 (IEC 61784-5-19 ED2)  
Industrijske komunikacijske mreže – Profili – Dio 5-19: Instalacija industrijskih sabirnica (fieldbus) – Instalacijski profili za CPF 19 (IEC 61784-5-19 ED2)

prEN IEC 61784-5-22:2022 en  
Industrial communication networks – Profiles – Part 5-22: Installation of fieldbuses – Installation profiles for CPF 22 (IEC 61784-5-22 ED1)  
Industrijske komunikacijske mreže – Profili – Dio 5-22: Instalacija industrijskih sabirnica (fieldbus) – Instalacijski profili za CPF 22 (IEC 61784-5-22 ED1)

prEN IEC 61784-5-8:2022 en  
Industrial communication networks – Profiles – Part 5-8: Installation of fieldbuses – Installation profiles for CPF 8 (IEC 61784-5-8 ED3)  
Industrijske komunikacijske mreže – Profili – Dio 5-8: Instalacija industrijskih sabirnica (fieldbus) – Instalacijski profili za CPF 8 (IEC 61784-5-8 ED3)

prEN IEC 61784-5-X:2022 en  
Industrial communication networks – Profiles – Part 5-x: Installation of fieldbuses – Installation profiles for CPF x (x=2, 3, 6, 12, 21) (IEC 61784-5-X ED5)  
Industrijske komunikacijske mreže – Profili – Dio 5-x: Instalacija industrijskih sabirnica (fieldbus) – Instalacijski profili za CPF x (x=2, 3, 6, 12, 21) (IEC 61784-5-X ED5)

prEN IEC 62453-1:2022 en  
Field device tool (FDT) interface specification – Part 1: Overview and guidance (IEC 62453-1 ED3)  
Specifikacija sučelja alata za uređaje u postrojenju (FDT) – 1. dio: Pregled i upute (IEC 62453-1 ED3)

prEN IEC 62769-1:2022 en  
Field Device Integration (FDI) – Part 1: Overview (IEC 62769-1 ED3)  
Integracija uređaja u postrojenju (FDI) – 1. dio: Pregled (IEC 62769-1 ED3)

prEN IEC 62769-2:2022 en  
Field Device Integration (FDI) – Part 2: FDI Client (IEC 62769-2 ED3)  
Integracija uređaja u postrojenju (FDI) – 2. dio: FDI klijent (IEC 62769-2 ED3)

prEN IEC 62769-3:2022 en  
Field Device Integration (FDI) – Part 3: Server (IEC 62769-3 ED3)  
Integracija uređaja u postrojenju (FDI) – 3. dio: Poslužitelj (IEC 62769-3 ED3)

prEN IEC 62769-4:2022 en  
Field Device Integration (FDI) – Part 4: FDI Packages (IEC 62769-4 ED3)  
Integracija uređaja u postrojenju (FDI) – 4. dio: FDI paketi (IEC 62769-4 ED3)

prEN IEC 62769-5:2022 en  
Field Device Integration (FDI) – Part 5: Information Model (IEC 62769-5 ED3)  
Integracija uređaja u postrojenju (FDI) – 5. dio: Informacijski model (IEC 62769-5 ED3)

prEN IEC 62769-6:2022 en  
Field Device Integration (FDI) – Part 6: Technology Mapping (IEC 62769-6 ED3)  
Integracija uređaja u postrojenju (FDI) – 6. dio: Tehnološko preslikavanje (IEC 62769-6 ED3)

prEN IEC 62769-6-100:2022 en  
Field Device Integration (FDI) – Part 6-100: Technology Mapping – Net (IEC 62769-6-100 ED1)  
Integracija uređaja u postrojenju (FDI) – Dio 6-100: Tehnološko preslikavanje – Mreža (IEC 62769-6-100 ED1)

prEN IEC 62769-6-200:2022 en  
Field Device Integration (FDI) – Part 6-200: Technology Mapping – HTML5 (IEC 62769-6-200 ED1)  
Integracija uređaja u postrojenju (FDI) – Dio 6-200: Tehnološko preslikavanje – HTML5 (IEC 62769-6-200 ED1)

prEN IEC 62769-7:2022 en  
Field Device Integration (FDI) – Part 7: Communication Devices (IEC 62769-7 ED3)  
Integracija uređaja u postrojenju (FDI) – 7. dio: Komunikacijski uređaji (IEC 62769-7 ED3)

prEN IEC 62769-8:2022 en  
Field device integration (FDI) – Part 8: EDD to OPC-UA Mapping (IEC 62769-8 ED1)  
Integracija uređaja u postrojenju (FDI) – 8. dio: Preslikavanje EDD u OPC-UA (IEC 62769-8 ED1)

prEN IEC 62769-100:2022 en  
Field device integration (FDI) – Part 100: Profiles – Generic protocols (IEC 62769-100 ED2)  
Integracija uređaja u postrojenju (FDI) – 100. dio: Profili – Generički protokoli (IEC 62769-100 ED2)

prEN IEC 62769-101-1:2022 en  
Field device Integration (FDI) – Part 101-1: Profiles – Foundation Fieldbus H1 (IEC 62769-101-1 ED3)  
Integracija uređaja u postrojenju (FDI) – Dio 101-1: Osnivanje Fieldbus H1 (IEC 62769-101-1 ED3)

prEN IEC 62769-101-2:2022 en  
Field Device Integration (FDI) – Part 101-2: Profiles – Foundation Fieldbus HSE (IEC 62769-101-2 ED3)  
Integracija uređaja u postrojenju (FDI) – Dio 101-2: Osnivanje Fieldbus HSE (IEC 62769-101-2 ED3)

prEN IEC 62769-102-2:2022 en  
Field device integration (FDI) – Part 102-2: Profiles – EtherNet/IP (IEC 62769-102-2 ED1)  
Integracija uređaja u postrojenju (FDI) – Dio 102-2: Profili – EtherNet/IP (IEC 62769-102-2 ED1)

prEN IEC 62769-103-1:2022 en  
Field Device Integration (FDI) – Part 103-1: Profiles – PROFIBUS (IEC 62769-103-1 ED3)  
Integracija uređaja u postrojenju (FDI) – Dio 103-1: Profili – PROFIBUS (IEC 62769-103-1 ED3)

prEN IEC 62769-103-4:2022 en  
Field Device Integration (FDI) – Part 103-4: Profiles – PROFINET (IEC 62769-103-4 ED3)  
Integracija uređaja u postrojenju (FDI) – Dio 103-4: Profili – PROFINET (IEC 62769-103-4 ED3)

prEN IEC 62769-109-1:2022 en  
Field device integration (FDI) – Part 109-1: Profiles – HART® and WirelessHART® (IEC 62769-109-1 ED3)  
Integracija uređaja u postrojenju (FDI) – Dio 109-1: Profili – HART® i WirelessHART® (IEC 62769-109-1 ED3)

prEN IEC 62769-150-1:2022 en  
Field device integration (FDI) – Part 150-1: Profiles – ISA100 WIRELESS (IEC 62769-150-1 ED2)  
Integracija uređaja u postrojenju (FDI) – Dio 150-1: Profili – ISA100 BEŽIČNI (IEC 62769-150-1 ED2)

prEN IEC 62769-151-1:2022 en  
Field device integration (FDI) – Part 151-1: Profiles – OPC UA (IEC 62769-151-1 ED1)  
Integracija uređaja u postrojenju (FDI) – Dio 151-1: Profili – OPC UA (IEC 62769-151-1 ED1)

prEN IEC 63365:2022 en  
Digital Nameplate – Digital Product Marking (IEC 63365 ED1)  
Digitalna natpisna pločica – Digitalno označavanje proizvoda (IEC 63365 ED1)

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

IEC 61786-2:2014 en  
Measurement of DC magnetic, AC magnetic and AC electric fields from 1 Hz to 100 kHz with regard to exposure of human beings – Part 2: Basic standard for measurements  
Mjerenje istosmjernih magnetskih te izmjeničnih magnetskih i električnih polja frekvencija od 1 Hz do 100 kHz, s obzirom na izloženost ljudi – 2. dio: Osnovna norma za mjerenja

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

prEN IEC 62368-1:2022/prAA:2022 en  
Audio/video, information and communication technology equipment – Part 1: Safety requirements  
Oprema audio/video, informacijske i komunikacijske tehnologije – 1. dio: Zahtjevi sigurnosti

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

prEN ISO 11638 en  
Resilient floor coverings – Heterogeneous poly(vinyl chloride) flooring on foam – Specification (ISO 11638:2020, including corrected version 2021-09)  
Elastične podne obloge – Heterogene poli(vinil-kloridne) podne obloge s pjenastom poledinom – Specifikacija (ISO 11638:2020, uključujući ispravljenu verziju 2021-09)

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

prEN ISO 734 en  
Oilseed meals – Determination of oil content – Extraction method with hexane (or light petroleum) (ISO/DIS 734:2022)  
Uljane pogače i sačme – Određivanje količine ulja – Metoda ekstrakcije heksanom (ili petroleterom) (ISO/DIS 734:2022)

prEN ISO 4618 en  
Paints and varnishes – Vocabulary (ISO/DIS 4618:2022)  
Boje i lakovi – Terminološki rječnik (ISO/DIS 4618:2022)

prEN ISO 7142 en  
Binders for paints and varnishes – Epoxy resins – General methods of test (ISO/DIS 7142:2022)  
Veziva za boje i lakove – Epoksidne smole – Opće metode ispitivanja (ISO/DIS 7142:2022)

prEN ISO 12872 en  
Olive oils and olive-pomace oils – Determination of the 2-glycerol monopalmitate content (ISO/DIS 12872:2022)  
Maslinova ulja i ulja od komine masline – Određivanje udjela 2-gliceril monopalmitata (ISO/DIS 12872:2022)

## **HZN/TU F1, Osnovne norme 1**

prEN 15713 en  
Secure destruction of confidential material – Code of practice  
Sigurno uništavanje povjerljivih materijala – Kodeks prakse

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

prEN ISO 16638-2 en  
Radiological protection – Monitoring and internal dosimetry for specific materials – Part 2: Ingestion of uranium compounds (ISO 16638-2:2019)  
Radiološka zaštita – Nadzor i unutarnja dozimetrija za određene materijale – 2. dio: Gutanje spojeva urana (ISO 16638-2:2019)

prEN ISO 19443 en  
Quality management systems – Specific requirements for the application of ISO 9001:2015 by organizations in the supply chain of the nuclear energy sector supplying products and services important to nuclear safety (ITNS) (ISO 19443:2018)  
Sustavi upravljanja kvalitetom – Posebni zahtjevi za primjenu ISO 9001:2015 za organizacije u lancu opskrbe sektora nuklearne energije koje isporučuju proizvode i usluge važne za nuklearnu sigurnost (ITNS) (ISO 19443:2018)

prEN ISO 20031 en  
Radiological protection – Monitoring and dosimetry for internal exposures due to wound contamination with radionuclides (ISO 20031:2020)  
Radiološka zaštita – Praćenje i dozimetrija unutarnje izloženosti zbog kontaminacije rane radionuklidima (ISO 20031:2020)

## **HZN/TU N1, Nemetalni materijali 1**

prEN ISO 2613-1 en  
Analysis of natural gas – Silicon content of biomethane – Part 1: Determination of total silicon content by AES (ISO/DIS 2613-1:2022)

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

prEN ISO 3630-4 en  
Dentistry – Endodontic instruments – Part 4: Auxiliary instruments (ISO/DIS 3630-4:2022)  
Stomatologija – Endodontski instrumenti – 4. dio: Pomoćni instrumenti (ISO/DIS 3630-4:2022)

prEN ISO 15854 en  
Dentistry – Casting and baseplate waxes (ISO/DIS 15854:2022)  
Stomatologija – Voskovi za lijevanje i izradu bazne ploče (ISO/DIS 15854:2022)

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

- EN 4844:2022 en  
Aerospace series – Screws, 100° countersunk normal head, Spiral Drive Recess, threaded to head, in heat and corrosion resisting steel, passivated – Classification: 1 100 MPa (at ambient temperature) / 425 °C
- EN 4845:2022 en  
Aerospace series – Screw, 100° countersunk normal head, Spiral Drive Recess, short thread, in heat resisting steel FE-PA2601 (A286), passivated – Classification: 900 MPa (at ambient temperature)/650 °C
- EN 4846:2022 en  
Aerospace series – Screws, pan head, Spiral Drive Recess, threaded to head, in heat and corrosion resisting steel, passivated – Classification: 1 100 MPa (at ambient temperature) / 425 °C
- EN 4847:2022 en  
Aerospace series – Screw, pan head, Spiral Drive Recess, coarse tolerance normal shank, medium length thread, in alloy steel, cadmium plated – Classification: 1 100 MPa (at ambient temperature)/235 °C
- EN 4848:2022 en  
Aerospace series – Screw, pan head, Spiral Drive Recess, coarse tolerance normal shank, medium length thread, in titanium alloy, anodized, MoS2 lubricated – Classification: 1 100 MPa (at ambient temperature)/315 °C
- EN 4849:2022 en  
Aerospace series – Screw, 100° countersunk normal head, Spiral Drive Recess, close tolerance normal shank, short thread, in titanium alloy, aluminium IVD coated – Classification: 1 100 MPa (at ambient temperature)/425 °C
- EN 4850:2022 en  
Aerospace series – Screw, 100° countersunk normal head, Spiral Drive Recess, coarse tolerance normal shank, medium length thread, in alloy steel, cadmium plated – Classification: 1 100 MPa (at ambient temperature)/235 °C
- EN 4851:2022 en  
Aerospace series – Screw, 100° countersunk normal head, Spiral Drive Recess, coarse tolerance normal shank, long thread, in alloy steel, cadmium plated – Classification: 1 100 MPa (at ambient temperature)/235 °C
- EN 4853:2022 en  
Aerospace series – Externally threaded fastener, 100° countersunk normal head, Spiral Drive Recess – Classification: 1 100 MPa (at ambient temperature)/425 °C
- prEN 4892 en  
Aerospace series – Bolt, External Spiral Drive, flange head, tension and shear application
- prEN 9104-001 en  
Aerospace series – Quality management systems – Part 001: Requirements for Certification of Aviation, Space, and Defense Quality Management Systems

## HZN/TU V1, *Elektronika 1*

- prEN IEC 60384-20:2022 en  
Fixed capacitors for use in electronic equipment – Part 20: Sectional specification – Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors (IEC 60384-20 ED4)  
Fiksni kondenzatori za uporabu u elektroničkoj opremi – 20. dio: Sekcijska specifikacija – Fiksni kondenzatori za istosmjerni napon s dielektrikom od metaliziranog filma od polifenilen sulfida za površinsku ugradnju (IEC 60384-20 ED4)
- prEN IEC 60384-23:2022 en  
Fixed capacitors for use in electronic equipment – Part 23: Sectional specification – Fixed metallized polyethylene naphthalate film dielectric surface mount DC capacitors (IEC 60384-23 ED3)  
Fiksni kondenzatori za uporabu u elektroničkoj opremi – 23. dio: Sekcijska specifikacija – Fiksni kondenzatori za istosmjerni napon s dielektrikom od metaliziranog filma od polietilen naftalata za površinsku ugradnju (IEC 60384-23 ED3)

- prEN IEC 60393-3:2022 en  
Potentiometers for use in electronic equipment – Part 3: Sectional specification: Rotary precision potentiometers (IEC 60393-3 ED3)  
Potencijometri za uporabu u elektroničkoj opremi – 3. dio: Sekcijska specifikacija: Rotacijski precizni potencijometri (IEC 60393-3 ED3)
- prEN IEC 61010-2-034:2022 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-034: Particular requirements for measurement equipment for insulation resistance and test equipment for electric strength (IEC 61010-2-034 ED2)  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-034: Posebni zahtjevi za opremu za mjerenje otpora izolacije i opremu za ispitivanje električne čvrstoće (IEC 61010-2-034 ED2)
- prEN IEC 61010-031:2022 en  
Safety requirements for electrical equipment for measurement, control and laboratory use – Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test (IEC 61010-031 ED3)  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 031: Sigurnosni zahtjevi za ručne sonde za električna mjerenja i ispitivanja (IEC 61010-031 ED3)
- prEN IEC 62228-6:2022 en  
Integrated circuit – EMC Evaluation of transceivers – Part 6: PS15 transceivers (IEC 62228-6 ED1)  
Integrirani krugovi – Procjena elektromagnetske kompatibilnosti (EMC) primopredajnika – 6. dio: Primopredajnici PS15 (IEC 62228-6 ED1)

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

- EN 60269-1:2007/prA3:2022 en  
Amendment 3 – Low-voltage fuses – Part 1: General requirements (IEC 60269-1/am3 ED4)  
Amendman 3 – Niskonaponski osigurači – 1. dio: Opći zahtjevi (IEC 60269-1/am3 ED4)
- HD 60269-2:2013/prA2:2022 en  
Amendment 2 – Low-voltage fuses – Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) – Examples of standardized systems of fuses A to K (IEC 60269-2/am2 ED5)  
Amendman 2 – Niskonaponski osigurači – 2. dio: Dodatni zahtjevi za osigurače kojima rukuju ovlaštene osobe (osigurači uglavnom namijenjeni za primjenu u industriji) – Primjeri normiranih sustava osigurača A do K (IEC 60269-2/am2 ED5)
- EN 60269-4:2009/prA3:2022 en  
Low-voltage fuses – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices (IEC 60269-4/am3 ED5)  
Niskonaponski osigurači – 4. dio: Dodatni zahtjevi za rastalne uloške za zaštitu poluvodičkih naprava (IEC 60269-4/am3 ED5)
- prEN IEC 63132-5:2022 en  
Guide for installation procedures and tolerances of hydroelectric machines – Part 5: Bulb turbines and generators (IEC 63132-5 ED1)
- prEN IEC 63132-6:2022 en  
Guide for installation procedures and tolerances of hydroelectric machines – Part 6: Vertical Pelton turbines (IEC 63132-6 ED1)



## 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.

### HZNTO 6, *Papir, karton i pulpe*

HRN EN ISO 638-2:2021 en  
Papir, karton, pulpe i celulozni nanomaterijali – Određivanje sadržaja suhe tvari metodom sušenja u peći – 2. dio: Suspenzije celuloznih nanomaterijala (ISO 638-2:2021; EN ISO 638-2:2021)  
Paper, board, pulps and cellulosic nanomaterials – Determination of dry matter content by oven-drying method – Part 2: Suspensions of cellulosic nanomaterials (ISO 638-2:2021; EN ISO 638-2:2021)  
- zamijenjena s: HRN EN ISO 638-2:2022

### HZNTO 8, *Brodogradnja*

HRN EN ISO 10087:2019 en  
Mala plovila – Prepoznavanje trupa – Sustav kodiranja (ISO 10087:2019; EN ISO 10087:2019)  
Small craft – Craft identification – Coding system (ISO 10087:2019; EN ISO 10087:2019)  
- zamijenjena s: HRN EN ISO 10087:2022

### HZNTO 22, *Cestovna vozila*

HRN ISO 2575:2012 en  
Cestovna vozila – Simboli za upravljačke naprave, indikatore i pokazne svjetiljke (ISO 2575:2010+Amd 1:2011)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2010+Amd 1:2011)  
- zamijenjena s: HRN ISO 2575:2022

HRN ISO 2575:2012/A3:2015 en  
Cestovna vozila – Simboli za upravljačke naprave, indikatore i pokazne svjetiljke (ISO 2575:2010/Amd 3:2014)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2010/Amd 3:2014)  
- zamijenjena s: HRN ISO 2575:2022

HRN ISO 2575:2012/A5:2017 en  
Cestovna vozila – Simboli za upravljačke naprave, indikatore i pokazne svjetiljke (ISO 2575:2010/Amd 5:2016)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2010/Amd 5:2016)  
- zamijenjena s: HRN ISO 2575:2022

HRN ISO 2575:2012/A6:2020 en  
Cestovna vozila – Simboli za upravljačke naprave, indikatore i pokazne svjetiljke (ISO 2575:2010/Amd 6:2017)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2010/Amd 6:2017)  
- zamijenjena s: HRN ISO 2575:2022

HRN ISO 2575:2012/A7:2020 en  
Cestovna vozila – Simboli za upravljačke naprave, indikatore i pokazne svjetiljke (ISO 2575:2010/Amd 7:2017)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2010/Amd 7:2017)  
- zamijenjena s: HRN ISO 2575:2022

HRN ISO 4000-1:2016 en  
Gume i naplatci za osobne automobile – 1. dio: Gume (milimetarski nizovi) (ISO 4000-1:2015)  
Passenger car tyres and rims – Part 1: Tyres (metric series) (ISO 4000-1:2015)  
- zamijenjena s: HRN ISO 4000-1:2022

HRN ISO 4138:2014 en  
Osobni automobili – Ponašanje pri ustaljenoj kružnoj vožnji – Metode ispitivanja otvorenom petljom (ISO 4138:2012)  
Passenger cars – Steady-state circular driving behaviour – Open-loop test methods (ISO 4138:2012)  
- zamijenjena s: HRN ISO 4138:2022

HRN ISO 5775-2:2017 en  
Gume i naplatci za bicikle – 2. dio: Naplatci (ISO 5775-2:2015, ispravljena verzija 2016-12-01)  
Bicycle tyres and rims – Part 2: Rims (ISO 5775-2:2015, Corrected version 2016-12-01)  
- zamijenjena s: HRN ISO 5775-2:2022

HRN ISO 6460-1:2012 en  
Motocikli – Metoda mjerenja emisija ispušnih plinova i potrošnje goriva – 1. dio: Opći ispitni zahtjevi (ISO 6460-1:2007)  
Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 1: General test requirements (ISO 6460-1:2007)  
- zamijenjena s: HRN ISO 6460-1:2022

HRN ISO 6460-1:2012/A1:2017 en  
Motocikli – Metoda mjerenja emisija ispušnih plinova i potrošnje goriva – 1. dio: Opći ispitni zahtjevi (ISO 6460-1:2007/Amd 1:2015)  
Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 1: General test requirements (ISO 6460-1:2007/Amd 1:2015)  
- zamijenjena s: HRN ISO 6460-1:2022

HRN ISO 6469-3:2020 en  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 3. dio: Električna sigurnost (ISO 6469-3:2018)  
Electrically propelled road vehicles – Safety specifications – Part 3: Electrical safety (ISO 6469-3:2018)  
- zamijenjena s: HRN ISO 6469-3:2022

HRN ISO 7876-5:2004 en,fr  
Oprema za ubrizgavanje goriva – Rječnik – 5. dio: Sustav ubrizgavanja goriva sa zajedničkim spremnikom "Common-rail" (ISO 7876-5:2004)  
Fuel injection equipment – Vocabulary – Part 5: Common rail fuel injection system (ISO 7876-5:2004)  
- zamijenjena s: HRN ISO 7876-5:2022

HRN ISO 10191:2013 en  
Gume za osobne automobile – Provjera sposobnosti guma – Laboratorijske metode ispitivanja (ISO 10191:2010)  
Passenger car tyres – Verifying tyre capabilities – Laboratory test methods (ISO 10191:2010)  
- zamijenjena s: HRN ISO 10191:2022

HRN ISO 11992-3:2003 en  
Cestovna vozila – Razmjena digitalnih podataka na električnim spojevima između vučnih i vučenih vozila – 3. dio: Sloj primjene za opremu koja ne pripada kočnicama i podvožju (ISO 11992-3:2003)  
Road vehicles – Interchange of digital information on electrical connections between towing and towed vehicles – Part 3: Application layer for equipment other than brakes and running gear (ISO 11992-3:2003)  
- zamijenjena s: HRN ISO 11992-3:2022

HRN ISO 11992-3:2003/A1:2015 en  
Cestovna vozila – Razmjena digitalnih podataka na električnim spojevima između vučnih i vučenih vozila – 3. dio: Sloj primjene za opremu koja ne pripada kočnicama i podvožju (ISO 11992-3:2003/Amd 1:2008)  
Road vehicles – Interchange of digital information on electrical connections between towing and towed vehicles – Part 3: Application layer for equipment other than brakes and running gear (ISO 11992-3:2003/Amd 1:2008)  
- zamijenjena s: HRN ISO 11992-3:2022

HRN ISO 12345:2014 en  
Dizelski motori – Ocjena čistoće opreme za ubrizgavanje goriva (ISO 12345:2013, ispravljena verzija 2014-05)  
Diesel engines – Cleanliness assessment of fuel injection equipment (ISO 12345:2013, Corrected version 2014-05)  
- zamijenjena s: HRN ISO 12345:2022

HRN ISO 14229-2:2014 en  
Cestovna vozila – Jedinstveno dijagnostičko posluživanje (UDS) – 2. dio: Posluživanje sloja povezivanja (ISO 14229-2:2013)  
Road vehicles – Unified diagnostic services (UDS) – Part 2: Session layer services (ISO 14229-2:2013)  
- zamijenjena s: HRN ISO 14229-2:2022

HRN ISO 16844-1:2014 en  
Cestovna vozila – Tahografski sustavi – 1. dio: Električni spojnici (ISO 16844-1:2013)  
Road vehicles – Tachograph systems – Part 1: Electrical connectors (ISO 16844-1:2013)  
- zamijenjena s: HRN ISO 16844-1:2022



HRN ISO 23671:2016 en  
Gume za osobne automobile – Metoda mjerenja relativne značajke mokroga prijanjanja – Opterećene nove gume (ISO 23671:2015)  
Passenger car tyres – Method for measuring relative wet grip performance – Loaded new tyres (ISO 23671:2015)  
- zamijenjena s: HRN ISO 23671:2022

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

HRN EN ISO 11806-1:2013 en  
Poljoprivredna i šumarska mehanizacija – Sigurnosni zahtjevi i ispitivanje za prijenosne, ručno upravljane, motorne rezačice za grmlje i kosilice trave – 1. dio: Strojevi opremljeni motorom s unutrašnjim izgaranjem (ISO 11806-1:2011; EN ISO 11806-1:2011)  
Agricultural and forestry machinery – Safety requirements and testing for portable, hand-held, powered brush-cutters and grass-trimmers – Part 1: Machines fitted with an integral combustion engine (ISO 11806-1:2011; EN ISO 11806-1:2011)  
- zamijenjena s: HRN EN ISO 11806-1:2022

HRN EN ISO 11806-2:2013 en  
Poljoprivredna i šumarska mehanizacija – Sigurnosni zahtjevi i ispitivanje za prijenosne, ručno upravljane, motorne rezačice za grmlje i kosilice za travu – 2. dio: Strojevi opremljeni stražnjom pogonskom jedinicom (ISO 11806-2:2011; EN ISO 11806-2:2011)  
Agricultural and forestry machinery – Safety requirements and testing for portable, hand-held, powered brush-cutters and grass-trimmers – Part 2: Machines for use with back-pack power unit (ISO 11806-2:2011; EN ISO 11806-2:2011)  
- zamijenjena s: HRN EN ISO 11806-2:2022

### **HZN/TO 25, Ljevarstvo**

HRN EN 10250-1:2007 en  
Čelični otkovci za inženjersku namjenu dobiveni slobodnim kovanjem – 1. dio: Opći zahtjevi (EN 10250-1:1999)  
Open die steel forgings for general engineering purposes – Part 1: General requirements (EN 10250-1:1999)  
- zamijenjena s: HRN EN 10250-1:2022

HRN EN 10250-2:2007 en  
Čelični otkovci za inženjersku namjenu dobiveni slobodnim kovanjem – 2. dio: Nelegirani i specijalni čelici (EN 10250-2:1999)  
Open die steel forgings for general engineering purposes – Part 2: Non-alloy quality and special steels (EN 10250-2:1999)  
- zamijenjena s: HRN EN 10250-2:2022

HRN EN 10250-3:2007 en  
Čelični otkovci za inženjersku namjenu dobiveni slobodnim kovanjem – 3. dio: Legirani specijalni čelici (EN 10250-3:1999)  
Open die steel forgings for general engineering purposes – Part 3: Alloy special steels (EN 10250-3:1999)  
- zamijenjena s: HRN EN 10250-3:2022

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

HRN EN 590:2017 hr-en  
Goriva za motorna vozila – Dizelsko gorivo – Zahtjevi i metode ispitivanja (EN 590:2013+A1:2017)  
Automotive fuels – Diesel – Requirements and test methods (EN 590:2013+A1:2017)  
- zamijenjena s: HRN EN 590:2022

HRN EN 16734:2018 en  
Goriva za motorna vozila – Dizelsko gorivo B10 – Zahtjevi i metode ispitivanja (EN 16734:2016+A1:2018)  
Automotive fuels – Automotive B10 diesel fuel – Requirements and test methods (EN 16734:2016+A1:2018)  
- zamijenjena s: HRN EN 16734:2022

### **HZN/TO 37, Terminologija**

HRN ISO 1087-1:2010 hr,en,fr-en,fr  
Terminološki rad – Terminološki rječnik – 1. dio: Teorija i primjena (ISO 1087-1:2000)  
Terminology work – Vocabulary – Part 1: Theory and application (ISO 1087-1:2000)  
- zamijenjena s: HRN ISO 1087:2022

HRN ISO 12616:2010 en  
Terminografija usmjerena na prevodenje (ISO 12616:2002)  
Translation-oriented terminography (ISO 12616:2002)  
- zamijenjena s: HRN ISO 12616-1:2022

HRN ISO 24613:2010 en  
Upravljanje jezičnom građom – Okvir leksičkog obilježavanja (ISO 24613:2008)  
Language resource management – Lexical markup framework (LMF) (ISO 24613:2008)  
- zamijenjena s: HRN ISO 24613-1:2020,  
HRN ISO 24613-2:2022, HRN ISO 24613-3:2022,  
HRN ISO 24613-4:2022, HRN ISO 24613-5:2022

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

HRN ISO 690:2014 en  
Informacije i dokumentacija – Smjernice za bibliografske bilješke i navode u izvorima informacija (ISO 690:2010)  
Information and documentation – Guidelines for bibliographic references and citations to information resources (ISO 690:2010)  
- zamijenjena s: HRN ISO 690:2022

HRN ISO 10754:2001 en  
Informacije i dokumentacija – Kodirani skup znakova za proširenu ćirilicu za neslavenske jezike za razmjenu bibliografskih informacija (ISO 10754:1996)  
Information and documentation – Extension of the Cyrillic alphabet coded character set for non-Slavic languages for bibliographic information interchange (ISO 10754:1996)  
- bez zamjene

HRN ISO 10957:2011 en  
Informacije i dokumentacija – Međunarodni standardni broj notne građe (ISMN) (ISO 10957:2009)  
Information and documentation – International standard music number (ISMN) (ISO 10957:2009)  
- zamijenjena s: HRN ISO 10957:2022

HRN ISO 15924:2008 en  
Informacije i dokumentacija – Kodovi za prikazivanja naziva pisama (ISO 15924:2004)  
Information and documentation – Codes for the representation of names of scripts (ISO 15924:2004)  
- zamijenjena s: HRN ISO 15924:2022

HRN ISO 18626:2018 en  
Informacije i dokumentacija – Transakcije u međuknjižničnoj posudbi (ISO 18626:2017)  
Information and documentation – Interlibrary Loan Transactions (ISO 18626:2017)  
- zamijenjena s: HRN ISO 18626:2022

HRN ISO 21047:2011 en  
Informacije i dokumentacija – Međunarodni standardni kod teksta (ISTC) (ISO 21047:2009)  
Information and documentation – International Standard Text Code (ISTC) (ISO 21047:2009)  
- bez zamjene

HRN ISO 23081-2:2011 en  
Informacije i dokumentacija – Upravljanje metapodacima za zapise – 2. dio: Načelna i implementacijska pitanja (ISO 23081-2:2009)  
Information and documentation – Managing metadata for records – Part 2: Conceptual and implementation issues (ISO 23081-2:2009)  
- zamijenjena s: HRN ISO 23081-2:2022

### **HZN/TO 69, Primjena statističkih metoda**

HRI ISO/TR 22971:2012 en  
Točnost (istinitost i preciznost) mjernih metoda i rezultata – Praktične upute za uporabu ISO 5725-2:1994 u osmišljavanju, primjeni i statističkome analiziranju ponovljivosti i obnovljivosti rezultata putem međulaboratorijskih usporedbi (ISO/TR 22971:2005)  
Accuracy (trueness and precision) of measurement methods and results – Practical guidance for the use of ISO 5725-2:1994 in designing, implementing and statistically analysing interlaboratory repeatability and reproducibility results (ISO/TR 22971:2005)  
- bez zamjene

### **HZN/TO 74, Cement i vapno**

HRN EN 16908:2017 en  
Cement i građevno vapno – Izjava zaštite okoliša – Pravila za razvrstavanje proizvoda kao dopuna normi EN 15804 (EN 16908:2017)  
Cement and building lime – Environmental product declarations – Product category rules complementary to EN 15804 (EN 16908:2017)  
- zamijenjena s: HRN EN 16908:2022

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

HRN CEN ISO/TS 8662-11:2004 en  
Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 11. dio: Alati za pribijanje (ISO 8662-11:1999+Amd 1:2001; CEN ISO/TS 8662-11:2004)  
Hand-held portable power tools – Measurement of vibrations at the handle – Part 11: Fastener driving tools (ISO 8662-11:1999+Amd 1:2001; CEN ISO/TS 8662-11:2004)  
- zamijenjena s: HRN EN ISO 28927-13:2022

HRN CEN ISO/TS 8662-11:2004/Ispr.1:2008 en  
Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 11. dio: Alati za pribijanje (CEN ISO/TS 8662-11:2004/AC:2004)  
Hand-held portable power tools – Measurement of vibrations at the handle – Part 11: Fastener driving tools (CEN ISO/TS 8662-11:2004/AC:2004)  
- zamijenjena s: HRN EN ISO 28927-13:2022

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

HRN EN ISO 10079-1:2015 en  
Medicinska usisna oprema – 1. dio: Električno pogonjena usisna oprema (ISO 10079-1:2015; EN ISO 10079-1:2015)  
Medical suction equipment – Part 1: Electrically powered suction equipment (ISO 10079-1:2015; EN ISO 10079-1:2015)  
- zamijenjena s: HRN EN ISO 10079-1:2022

HRN EN ISO 10079-1:2015/A1:2019 en  
Medicinska usisna oprema – 1. dio: Električno pogonjena usisna oprema – Amandman 1: Promjene zahtjeva za rad pri krajnjim vrijednostima temperature (ISO 10079-1:2015/Amd 1:2018; EN ISO 10079-1:2015/A1:2019)  
Medical suction equipment – Part 1: Electrically powered suction equipment – Amendment 1: Changes to requirements for operating at extremes of temperature (ISO 10079-1:2015/Amd 1:2018; EN ISO 10079-1:2015/A1:2019)  
- zamijenjena s: HRN EN ISO 10079-1:2022

## **HZN/TO 130, Grafička tehnologija**

HRN ISO 14298:2017 en  
Grafička tehnologija – Upravljanje procesima zaštitnog tiska (ISO 14298:2013)  
Graphic technology – Management of security printing processes (ISO 14298:2013)  
- zamijenjena s: HRN ISO 14298:2022

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

HRN EN ISO 9712:2012 en  
Nerazorno ispitivanje – Kvalifikacija i certifikacija NDT osoblja (ISO 9712:2012; EN ISO 9712:2012)  
Non-destructive testing – Qualification and certification of NDT personnel (ISO 9712:2012; EN ISO 9712:2012)  
- zamijenjena s: HRN EN ISO 9712:2022

## **HZN/TO 145, Grafički simboli**

HRN ISO 20712-1:2009 en  
Znakovi za sigurnost na vodi i zastave za sigurnost na plaži – 1. dio: Specifikacije za znakove za sigurnost na vodi koji se upotrebljavaju na radnim i javnim mjestima (ISO 20712-1:2008)  
Water safety signs and beach safety flags – Part 1: Specifications for water safety signs used in workplaces and public areas (ISO 20712-1:2008)  
- zamijenjena s: HRN EN ISO 7010:2020

## **HZN/TO 147/PO 2, Kvaliteta vode; Fizikalno-kemijske metode ispitivanja**

HRN EN ISO 10304-4:2001 en  
Kakvoća vode – Određivanje otopljenih aniona ionskom tekućinskom kromatografijom – 4. dio: Određivanje klorata, klorida i klorita u slabo onečišćenim vodama (ISO 10304-4:1997; EN ISO 10304-4:1999)  
Water quality – Determination of dissolved anions by liquid chromatography of ions – Part 4: Determination of chlorate, chloride and chlorite in water with low contamination (ISO 10304-4:1997; EN ISO 10304-4:1999)  
- zamijenjena s: HRN EN ISO 10304-4:2022

## **HZN/TO 190, Kvaliteta tla**

HRN ISO 10390:2005 en  
Kakvoća tla – Određivanje pH-vrijednosti (ISO 10390:2005)  
Soil quality – Determination of pH (ISO 10390:2005)  
- zamijenjena s: HRN EN ISO 10390:2022

## **HZN/TO 215, Zdravstvena informatika**

HRN EN 17269:2019 en  
Zdravstvena informatika – Sažetak međunarodnih pacijentovih medicinskih podataka (EN 17269:2019)  
Health informatics – The International Patient Summary (EN 17269:2019)  
- zamijenjena s: HRN EN ISO 27269:2022

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

HRN EN 851:2015 en  
Aluminij i aluminijeve legure – Rondele i materijal za proizvode opće namjene – Specifikacije (EN 851:2014)  
Aluminium and aluminium alloys – Circle and circle stock for the production of culinary utensils – Specifications (EN 851:2014)  
- zamijenjena s: HRN EN 851:2022

HRN EN 941:2015 en  
Aluminij i aluminijeve legure – Rondele i materijal za rondule za proizvode opće namjene – Specifikacije (EN 941:2014)  
Aluminium and aluminium alloys – Circle and circle stock for the production of general applications – Specifications (EN 941:2014)  
- zamijenjena s: HRN EN 941:2022

HRN EN ISO 2639:2003 en  
Čelik – Određivanje i provjeravanje dubine površinski otvrdnutih čelika (ISO 2639:2002; EN ISO 2639:2002)  
Steel – Determination and verification of the depth of carburized and hardened cases (ISO 2639:2002; EN ISO 2639:2002)  
- zamijenjena s: HRN EN ISO 18203:2022

HRN EN 10169:2012 en  
Kontinuirano organski prevučeni (prevučeni koluti) plosnati čelični proizvodi – Tehnički uvjeti isporuke (EN 10169:2010+A1:2012)  
Continuously organic coated (coil coated) steel flat products – Technical delivery conditions (EN 10169:2010+A1:2012)  
- zamijenjena s: HRN EN 10169:2022

HRN EN 10328:2007 en  
Željezni ljev i čelik – Određivanje konvencionalne dubine otvrdnjavanja nakon površinskog zagrijavanja (EN 10328:2005)  
Iron and steel – Determination of the conventional depth of hardening after surface heating (EN 10328:2005)  
- zamijenjena s: HRN EN ISO 18203:2022

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

HRN EN ISO 2080:2010 hr-en,fr  
Metalne i ostale anorganske prevlake – Površinska obrada, metalne i ostale anorganske prevlake – Terminološki rječnik (ISO 2080:2008; EN ISO 2080:2009)  
Metallic and other inorganic coatings – Surface treatment, metallic and other inorganic coatings – Vocabulary (ISO 2080:2008; EN ISO 2080:2009)  
- zamijenjena s: HRN EN ISO 2080:2022

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

HRN EN ISO 10423:2010 en  
Industrija nafte i prirodnog plina – Oprema za bušenje i proizvodnju – Oprema za bušotinske glave i erupcijske uređaje (ISO 10423:2009; EN ISO 10423:2009)  
Petroleum and natural gas industries – Drilling and production equipment – Wellhead and christmas tree equipment (ISO 10423:2009; EN ISO 10423:2009)  
- zamijenjena s: HRN EN ISO 10423:2022

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

HRN EN 74-1:2008 en  
Spojnice, umetci i ležajne ploče za potporne i radne skele – 1. dio: Spojnice za cijevi – Zahtjevi i postupci ispitivanja (EN 74-1:2005)  
Couplers, spigot pins and baseplates for use in falsework and scaffolds – Part 1: Couplers for tubes – Requirements and test procedures (EN 74-1:2005)  
- zamijenjena s: HRN EN 74-1:2022

HRN EN 74-2:2008 en  
Spojnice, umetci i ležajne ploče za potporne i radne skele – 2. dio: Posebne spojnice – Zahtjevi i postupci ispitivanja (EN 74-2:2008)  
Couplers, spigot pins and baseplates for use in falsework and scaffolds – Part 2: Special couplers – Requirements and test procedures (EN 74-2:2008)  
- zamijenjena s: HRN EN 74-2:2022

HRN EN 15512:2020 en  
Čelični nepokretni skladišni sustavi – Podesivi sustavi polica za palete – Načela za projektiranje konstrukcija (EN 15512:2020)  
Steel static storage systems – Adjustable pallet racking systems – Principles for structural design (EN 15512:2020)  
- zamijenjena s: HRN EN 15512:2022

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

HRN EN 16186-3:2018 en  
Željeznički sustav – Upravljačnica – 3. dio: Projektiranje zaslona (EN 16186-3:2016+A1:2018)  
Railway applications – Driver's cab – Part 3: Design of displays (EN 16186-3:2016+A1:2018)  
- zamijenjena s: HRN EN 16186-3:2022

### **HZN/TO 529, Granici, dizalice i prenosila neprekidne dobave**

HRN EN 619:2012 en  
Prenosila i sustavi neprekidne dobave – Sigurnosni i EMC zahtjevi na opremu mehaničke dobave komadnog tereta (EN 619:2002+A1:2010)  
Continuous handling equipment and systems – Safety and EMC requirements for equipment for mechanical handling of unit loads (EN 619:2002+A1:2010)  
- zamijenjena s: HRN EN 619:2022

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

HRN EN ISO 489:2008 en  
Plastika – Određivanje indeksa loma (ISO 489:1999; EN ISO 489:1999)  
Plastics – Determination of refractive index (ISO 489:1999; EN ISO 489:1999)  
- zamijenjena s: HRN EN ISO 489:2022

HRN EN ISO 2078:2008 en  
Stakleni tekstil – Pređa – Označavanje (ISO 2078:1993; EN ISO 2078:1994)  
Textile glass – Yarns – Designation (ISO 2078:1993; EN ISO 2078:1994)  
- zamijenjena s: HRN EN ISO 2078:2022

HRN EN ISO 2078:2008/A1:2016 en  
Stakleni tekstil – Pređa – Označavanje (ISO 2078:1993/Amd 1:2015; EN ISO 2078:1994/A1:2015)  
Textile glass – Yarns – Designation (ISO 2078:1993/Amd 1:2015; EN ISO 2078:1994/A1:2015)  
- zamijenjena s: HRN EN ISO 2078:2022

HRN EN ISO 3146:2008 en  
Plastika – Određivanje ponašanja pri taljenju (tališta ili područja taljenja) polukristalastih polimera metodama kapilarne cijevi i polarizacijskog mikroskopa (ISO 3146:2000+Cor 1:2002; EN ISO 3146:2000+AC:2003)  
Plastics – Determination of melting behaviour (melting temperature or melting range) of semi-crystalline polymers by capillary tube and polarizing-microscope methods (ISO 3146:2000+Cor 1:2002; EN ISO 3146:2000+AC:2003)  
- zamijenjena s: HRN EN ISO 3146:2022

HRN EN ISO 4671:2008 en  
Gumena i plastična crijeva i crijevni uređaji – Metode mjerenja dimenzija crijeva i dužina crijevnih uređaja (ISO 4671:2007; EN ISO 4671:2007)  
Rubber and plastics hoses and hose assemblies – Methods of measurement of the dimensions of hoses and the lengths of hose assemblies (ISO 4671:2007; EN ISO 4671:2007)  
- zamijenjena s: HRN EN ISO 4671:2022

HRN EN ISO 4671:2008/A1:2011 en  
Gumena i plastična crijeva i crijevni uređaji – Metode mjerenja dimenzija crijeva i dužina crijevnih uređaja – Amandman 1: Objašnjenje pozicije na kojoj se mjeri vanjski promjer (ISO 4671:2007/Amd 1:2011; EN ISO 4671:2007/A1:2011)  
Rubber and plastics hoses and hose assemblies – Methods of measurement of the dimensions of hoses and the lengths of hose assemblies – Amendment 1: Clarification of position at which outside diameter is measured (ISO 4671:2007/Amd 1:2011; EN ISO 4671:2007/A1:2011)  
- zamijenjena s: HRN EN ISO 4671:2022

HRN EN ISO 11357-7:2015 en  
Plastika – Diferencijalna pretražna kalorimetrija – 7. dio: Određivanje kinetike kristalizacije (ISO 11357-7:2015; EN ISO 11357-7:2015)  
Plastics – Differential scanning calorimetry (DSC) – Part 7: Determination of crystallization kinetics (ISO 11357-7:2015; EN ISO 11357-7:2015)  
- zamijenjena s: HRN EN ISO 11357-7:2022

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

HRN EN ISO 10209:2013 en  
Tehnička dokumentacija proizvoda – Terminološki rječnik – Nazivi vezani uz tehničke crteže, definicije proizvoda i pripadajuće dokumentacije (ISO 10209:2012; EN ISO 10209:2012)  
Technical product documentation – Vocabulary – Terms relating to technical drawings, product definition and related documentation (ISO 10209:2012; EN ISO 10209:2012)  
- zamijenjena s: HRN EN ISO 10209:2022

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

HRN EN 12975-1:2011 en  
Thermal solar systems and components – Solar collectors – Part 1: General requirements (EN 12975-1:2006+A1:2010)  
- zamijenjena s: HRN EN 12975:2022

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

HRN EN ISO 20345:2012 en  
Osobna zaštitna oprema – Sigurnosna obuća (ISO 20345:2011; EN ISO 20345:2011)  
Personal protective equipment – Safety footwear (ISO 20345:2011; EN ISO 20345:2011)  
- zamijenjena s: HRN EN ISO 20345:2022

HRN EN ISO 20346:2014 en  
Osobna zaštitna oprema – Zaštitna obuća (ISO 20346:2014; EN ISO 20346:2014)  
Personal protective equipment – Protective footwear (ISO 20346:2014; EN ISO 20346:2014)  
- zamijenjena s: HRN EN ISO 20346:2022

HRN EN ISO 20347:2012 en  
Osobna zaštitna oprema – Radna obuća (ISO 20347:2012; EN ISO 20347:2012)  
Personal protective equipment – Occupational footwear (ISO 20347:2012; EN ISO 20347:2012)  
- zamijenjena s: HRN EN ISO 20347:2022

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

HRN EN 13708:2003 en  
Namirnice – Dokazivanje primjene postupka ozračivanja u namirnicama koje sadrže kristalični šećer metodom elektron-spinske rezonancijske (ESR) spektroskopije (EN 13708:2001)  
Foodstuffs – Detection of irradiated food containing crystalline sugar by ESR spectroscopy (EN 13708:2001)  
- zamijenjena s: HRN EN 13708:2022

### **HZN/TO 577, Metode ispitivanja za karakterizaciju krutih i tekućih sastavnica i opterećenja okoliša**

HRN EN 15933:2013 en  
Muljevi, obrađeni biotpad i tlo – Određivanje pH (EN 15933:2012)  
Sludge, treated biowaste and soil – Determination of pH (EN 15933:2012)  
- zamijenjena s: HRN EN ISO 10390:2022



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

HRN EN 15602:2008 en  
Pružatelji zaštitarskih usluga – Nazivlje (EN 15602:2008)  
Security service providers – Terminology (EN 15602:2008)  
- zamijenjena s: HRN EN 15602:2022

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

HRN EN ISO 8130-4:2010 en  
Praškasti prekrivni materijali – 4. dio: Izračunavanje donje granice eksplozivnosti (ISO 8130-4:1992+Cor 1:1993; EN ISO 8130-4:2010)  
Coating powders – Part 4: Calculation of lower explosion limit (ISO 8130-4:1992+Cor 1:1993; EN ISO 8130-4:2010)  
- zamijenjena s: HRN EN ISO 8130-4:2022

HRN EN ISO 16925:2014 en  
Boje i lakovi – Određivanje otpornosti prevlaka na tlak vodenog mlaza (ISO 16925:2014; EN ISO 16925:2014)  
Paints and varnishes – Determination of the resistance of coatings to pressure water-jetting (ISO 16925:2014; EN ISO 16925:2014)  
- zamijenjena s: HRN EN ISO 16925:2022

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

HRN EN 308:2004 en  
Izmjenjivači topline – Postupci ispitivanja za određivanje značajka uređaja za regeneraciju topline zrak-zrak i zrak-dimni plinovi (EN 308:1997)  
Heat exchangers – Test procedures for establishing performance of air to air and flue gases heat recovery devices (EN 308:1997)  
- zamijenjena s: HRN EN 308:2022

HRN EN 474-1:2019 en  
Strojevi za zemljane radove – Sigurnost – 1. dio: Opći zahtjevi (EN 474-1:2006+A6:2019)  
Earth-moving machinery – Safety – Part 1: General requirements (EN 474-1:2006+A6:2019)  
- zamijenjena s: HRN EN 474-1:2022

HRN EN 474-2:2009 en  
Strojevi za zemljane radove – Sigurnost – 2. dio: Zahtjevi za traktorske dozere (EN 474-2:2006+A1:2008)  
Earth-moving machinery – Safety – Part 2: Requirements for tractor-dozers (EN 474-2:2006+A1:2008)  
- zamijenjena s: HRN EN 474-2:2022

HRN EN 474-3:2009 en  
Strojevi za zemljane radove – Sigurnost – 3. dio: Zahtjevi za utovarivače (EN 474-3:2006+A1:2009)  
Earth-moving machinery – Safety – Part 3: Requirements for loaders (EN 474-3:2006+A1:2009)  
- zamijenjena s: HRN EN 474-3:2022

HRN EN 474-4:2012 en  
Strojevi za zemljane radove – Sigurnost – 4. dio: Zahtjevi za bagere utovarivače (EN 474-4:2006+A2:2012)  
Earth-moving machinery – Safety – Part 4: Requirements for backhoe loaders (EN 474-4:2006+A2:2012)  
- zamijenjena s: HRN EN 474-4:2022

HRN EN 474-5:2013 en  
Strojevi za zemljane radove – Sigurnost – 5. dio: Zahtjevi za hidraulične bagere (EN 474-5:2006+A3:2013)  
Earth-moving machinery – Safety – Part 5: Requirements for hydraulic excavators (EN 474-5:2006+A3:2013)  
- zamijenjena s: HRN EN 474-5:2022

HRN EN 474-6:2009 en  
Strojevi za zemljane radove – Sigurnost – 6. dio: Zahtjevi za kamione kipe (EN 474-6:2006+A1:2009)  
Earth-moving machinery – Safety – Part 6: Requirements for dumpers (EN 474-6:2006+A1:2009)  
- zamijenjena s: HRN EN 474-6:2022

HRN EN 474-7:2009 en  
Strojevi za zemljane radove – Sigurnost – 7. dio: Zahtjevi za strugače (EN 474-7:2006+A1:2009)  
Earth-moving machinery – Safety – Part 7: Requirements for scrapers (EN 474-7:2006+A1:2009)  
- zamijenjena s: HRN EN 474-7:2022

HRN EN 474-8:2009 en  
Strojevi za zemljane radove – Sigurnost – 8. dio: Zahtjevi za ralice (EN 474-8:2006+A1:2009)  
Earth-moving machinery – Safety – Part 8: Requirements for graders (EN 474-8:2006+A1:2009)  
- zamijenjena s: HRN EN 474-8:2022

HRN EN 474-9:2009 en  
Strojevi za zemljane radove – Sigurnost – 9. dio: Zahtjevi za polagače cijevi (EN 474-9:2006+A1:2009)  
Earth-moving machinery – Safety – Part 9: Requirements for pipelayers (EN 474-9:2006+A1:2009)  
- zamijenjena s: HRN EN 474-9:2022

HRN EN 474-10:2009 en  
Strojevi za zemljane radove – Sigurnost – 10. dio: Zahtjevi za rovokopače (EN 474-10:2006+A1:2009)  
Earth-moving machinery – Safety – Part 10: Requirements for trenchers (EN 474-10:2006+A1:2009)  
- zamijenjena s: HRN EN 474-10:2022

HRN EN 474-11:2009 en  
Strojevi za zemljane radove – Sigurnost – 11. dio: Zahtjevi za strojeve za zbijanje zemlje i otpada na odlagalištima (EN 474-11:2006+A1:2008)  
Earth-moving machinery – Safety – Part 11: Requirements for earth and landfill compactors (EN 474-11:2006+A1:2008)  
- zamijenjena s: HRN EN 474-11:2022

HRN EN 474-12:2009 en  
Strojevi za zemljane radove – Sigurnost – 12. dio: Zahtjevi za kabelaške bagere (EN 474-12:2006+A1:2008)  
Earth-moving machinery – Safety – Part 12: Requirements for cable excavators (EN 474-12:2006+A1:2008)  
- zamijenjena s: HRN EN 474-12:2022

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

HRN EN ISO 5832-6:2019 en  
Kirurški implantati – Metalni materijali – 6. dio: Kovana legura kobalta, nikla, kroma i molibdena (ISO 5832-6:1997; EN ISO 5832-6:2019)  
Implants for surgery – Metallic materials – Part 6: Wrought cobalt-nickel-chromium-molybdenum alloy (ISO 5832-6:1997; EN ISO 5832-6:2019)  
- zamijenjena s: HRN EN ISO 5832-6:2022

HRN EN ISO 20126:2012 en  
Stomatologija – Ručne četkice za zube – Opći zahtjevi i metode ispitivanja (ISO 20126:2012; EN ISO 20126:2012)  
Dentistry – Manual toothbrushes – General requirements and test methods (ISO 20126:2012; EN ISO 20126:2012)  
- zamijenjena s: HRN EN ISO 20126:2022

HRN EN ISO 20126:2012/A1:2018 en  
Stomatologija – Ručne četkice za zube – Opći zahtjevi i metode ispitivanja (ISO 20126:2012/Amd 1:2018; EN ISO 20126:2012/A1:2018)  
Dentistry – Manual toothbrushes – General requirements and test methods (ISO 20126:2012/Amd 1:2018; EN ISO 20126:2012/A1:2018)  
- zamijenjena s: HRN EN ISO 20126:2022

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

HRN EN 3228:2011 en  
Nizovi o zrakoplovstvu – Matice, šesterokutne, ravne, skraćene visine, s normalnim ravnim presjekom, od čelika, prevučene kadmijem – Klasifikacija: 900 MPa (pri temperaturi okoline) / 235 °C (EN 3228:2010)  
Aerospace series – Nuts, hexagonal, plain, reduced height, normal across flats, in steel, cadmium plated – Classification: 900 MPa (at ambient temperature) / 235 °C (EN 3228:2010)  
- zamijenjena s: HRN EN 3228:2022

HRN EN 4641-301:2011 en  
Nizovi o zrakoplovstvu – Kabeli, optički, promjera omotača 125 µm – 301. dio: Čvrsta konstrukcija 50/125 µm GI vlakana nazivnoga vanjskog promjera 1,8 mm – Norma za proizvod (EN 4641-301:2011)  
Aerospace series – Cables, optical 125 µm diameter cladding – Part 301: Tight structure 50/125 µm GI fibre nominal 1,8 mm outside diameter – Product standard (EN 4641-301:2011)  
- zamijenjena s: HRN EN 4641-301:2022



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

- **umjesto**

HRN EN ISO 6888-1:2021

Mikrobiologija u lancu hrane – Horizontalna metoda određivanja broja koagulaza-pozitivnih stafilocoka (*Staphylococcus aureus* i ostale vrste) – 1. dio: Postupak primjene **Baird-Parkerove hranjive podloge na agaru** (ISO 6888-1:2021; EN ISO 6888-1:2021)

Microbiology of the food chain – Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) – Part 1: Technique using **Baird-Parker agar medium** (ISO 6888-1:2021; EN ISO 6888-1:2021)

- **treba biti**

HRN EN ISO 6888-1:2021

Mikrobiologija u lancu hrane – Horizontalna metoda određivanja broja koagulaza-pozitivnih stafilocoka (*Staphylococcus aureus* i ostale vrste) – 1. dio: Postupak primjene **Baird-Parker agara** (ISO 6888-1:2021; EN ISO 6888-1:2021)

Microbiology of the food chain – Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) – Part 1: Technique using **Baird-Parker agar medium** (ISO 6888-1:2021; EN ISO 6888-1:2021)

## 1.10 Prijevodi hrvatskih normativnih dokumenata

### **HZN/TO 554, Obrada otpadnih voda**

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

HRN EN 1825-1:2005 hr-en pr-pp

Separatori masnoća – 1. dio: Načela projektiranja, izvedbe i ispitivanja, označavanje i kontrola kvalitete (EN 1825-1:2004)  
Grease separators – Part 1: Principles of design, performance and testing, marking and quality control (EN 1825-1:2004)

HRN EN 1825-1:2005/AC:2007 hr-en pr-pp

Separatori masnoća – 1. dio: Načela projektiranja, izvedbe i ispitivanja, označavanje i kontrola kvalitete (EN 1825-1:2004/AC:2006)  
Grease separators – Part 1: Principles of design, performance and testing, marking and quality control (EN 1825-1:2004/AC:2006)

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

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

HRN EN 13237:2012 hr,en-en pr-pp

Potencijalno eksplozivne atmosfere – Nazivlje i definicije za opremu i zaštitne sustave za uporabu u ugroženim prostorima (EN 13237:2012)

Potentially explosive atmospheres – Terms and definitions for equipment and protective systems intended for use in potentially explosive atmospheres (EN 13237:2012)

## 2 Rezultati mednarodne i evropske normizacije

### Evropska normizacija (CEN)

Oznaka norme	Naslov norme	ICS	Datum objave
EN 280-1	Mobile elevating work platforms – Part 1: Design calculations – Stability criteria – Construction – Safety – Examinations and tests	53.020.99	2022-02
EN 280-2	Mobile elevating work platforms – Part 2: Additional safety requirements for load lifting appliances on the extending lifting structure and work platform	53.020.99	2022-02
EN 455-1+A1	Medical gloves for single use – Part 1: Requirements and testing for freedom from holes	11.140	2022-02
EN 558	Industrial valves – Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems – PN and Class designated valves	23.040.99; 23.060.01	2022-02
EN 589+A1	Automotive fuels – LPG – Requirements and test methods	75.160.20	2022-02
EN 933-9	Tests for geometrical properties of aggregates – Part 9: Assessment of fines – Methylene blue test	91.100.15	2022-02
EN 1097-6	Tests for mechanical and physical properties of aggregates – Part 6: Determination of particle density and water absorption	91.100.15	2022-02
EN 2713-012	Aerospace series – Cables, electrical, single and multicore for general purpose – Operating temperatures between -55 °C and 200 °C – Part 012: MNA (1 core), MNB (pair), MNC (3 cores), MND (4 cores), cables family – Silver-plated copper screened (spiral) and jacketed, UV laser printable – Product standard	49.060	2022-02
EN 3475-705	Aerospace series – Cables, electrical, aircraft use – Test methods – Part 705: Contrast measurement	49.060	2022-02
EN 3830	Aerospace series – Electrical system – Load analysis	49.060	2022-02
EN 10202	Cold reduced tinmill products – Electrolytic tinplate and electrolytic chromium/chromium oxide coated steel	77.140.50	2022-02
CEN/TR 12471	Screening test for the presence of nickel in articles which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin	39.060	2022-02
EN 12697-7	Bituminous mixtures – Test methods – Part 7: Determination of the bulk density of bituminous specimens by gamma rays	93.080.20	2022-02
EN 12697-15	Bituminous mixtures – Test methods – Part 15: Determination of the segregation sensitivity	93.080.20	2022-02
EN 12697-49	Bituminous mixtures – Test methods – Part 49: Determination of friction after polishing	93.080.20	2022-02
EN 13138-1/AC	Buoyant aids for swimming instruction – Part 1: Safety requirements and test methods for buoyant aids to be worn	13.340.70; 97.220.40	2022-02
EN 13523-9	Coil coated metals – Test methods – Part 9: Resistance to water immersion	25.220.60	2022-02
EN 13523-25	Coil coated metals – Test methods – Part 25: Resistance to humidity	25.220.60	2022-02
EN 13523-26	Coil coated metals – Test methods – Part 26: Resistance to condensation of water	25.220.60	2022-02
EN 13725	Stationary source emissions – Determination of odour concentration by dynamic olfactometry and odour emission rate	13.040.99	2022-02
EN 15936	Soil, waste, treated biowaste and sludge – Determination of total organic carbon (TOC) by dry combustion	13.030.01; 13.080.10	2022-02
EN 15984	Petroleum industry and products – Determination of composition of refinery heating gas and calculation of carbon content and calorific value – Gas chromatography method	75.160.30	2022-02
EN 16830	Safety and control devices for burners and appliances burning gaseous or liquid fuels – Control functions in electronic systems – Temperature Control function	91.140.40; 97.100.20	2022-02
EN 17472	Sustainability of construction works – Sustainability assessment of civil engineering works – Calculation methods	91.040.01	2022-02
EN 17476+A1	Specifications for dedicated liquefied petroleum gas appliances – LPG vapour pressure appliances incorporating a horizontal cartridge in the chassis	23.020.35	2022-02

Oznaka norme	Naslov norme	ICS	Datum objave
EN 17503	Soil, sludge, treated biowaste and waste – Determination of polycyclic aromatic hydrocarbons (PAH) by gas chromatography (GC) and high performance liquid chromatography (HPLC)	13.030.01; 13.080.10	2022-02
CEN/TS 17728	Organic soil improvers – Determination of specific parameters	65.080	2022-02
CEN/TS 17729	Soil improvers – Determination of specific parameters	65.080	2022-02
CEN/TS 17730	Compost and digestate properties when used in fertilizing products	65.080	2022-02
CEN/TS 17731	Growing media – Determination of specific parameters	65.080	2022-02
CEN/TS 17732	Soil improvers and growing media – Terminology	01.040.65; 65.080	2022-02
CEN/TS 17733	Soil improvers and growing media – Sampling and sample preparation	65.080	2022-02
CEN/TR 17748-2	Foundational Body of Knowledge for the ICT Profession (ICT BoK) – Part 2: User Guide and Methodology	03.100.30; 35.020	2022-02
CEN/TR 17792	Railway Applications – Wheel-rail contact geometry parameters – Technical report and background information about EN 15302	17.040.20; 45.060.01	2022-02
CEN/TR 17801	Guidelines for water safety plan concept in buildings	13.060.20; 91.140.60	2022-02
CWA 17852	Extensions for Financial Services (XFS) – XFS4IoT Specification – Release 2021-1 Release Candidate	35.240.40	2022-02
CWA 17857	Lens-based adaptor system for coupling fibre optic to infrared semiconductor lasers	31.260; 33.180.99	2022-02
EN ISO 683-3	Heat-treatable steels, alloy steels and free-cutting steels – Part 3: Case-hardening steels (ISO 683-3:2022)	77.140.10; 77.140.20	2022-02
EN ISO 4135	Anaesthetic and respiratory equipment – Vocabulary (ISO 4135:2022)	01.040.11; 11.040.10	2022-02
EN ISO 5667-1	Water quality – Sampling – Part 1: Guidance on the design of sampling programmes and sampling techniques (ISO 5667-1:2020)	13.060.45	2022-02
CEN ISO/TS 7849-1	Acoustics – Determination of airborne sound power levels emitted by machinery using vibration measurement – Part 1: Survey method using a fixed radiation factor (ISO/TS 7849-1:2009)	17.140.20	2022-02
CEN ISO/TS 7849-2	Acoustics – Determination of airborne sound power levels emitted by machinery using vibration measurement – Part 2: Engineering method including determination of the adequate radiation factor (ISO/TS 7849-2:2009)	17.140.20	2022-02
EN ISO 8253-3	Acoustics – Audiometric test methods – Part 3: Speech audiometry (ISO 8253-3:2022)	13.140	2022-02
EN ISO 8985	Plastics – Ethylene/vinyl acetate copolymer (EVAC) thermoplastics – Determination of vinyl acetate content (ISO 8985:2022)	83.080.20	2022-02
EN ISO 9220	Metallic coatings – Measurement of coating thickness – Scanning electron microscope method (ISO 9220:2022)	25.220.40	2022-02
EN ISO 10270	Corrosion of metals and alloys – Aqueous corrosion testing of zirconium alloys for use in nuclear power reactors (ISO 10270:2022)	27.120.10; 77.060	2022-02
EN ISO 10365	Adhesives – Designation of main failure patterns (ISO 10365:2022)	83.180	2022-02
EN ISO 10942	Ophthalmic instruments – Direct ophthalmoscopes (ISO 10942:2022)	11.040.70	2022-02
EN ISO 11295	Plastics piping systems used for the rehabilitation of pipelines – Classification and overview of strategic, tactical and operational activities (ISO 11295:2022)	23.040.01	2022-02
EN ISO 11339	Adhesives – T-peel test for flexible-to-flexible bonded assemblies (ISO 11339:2022)	83.180	2022-02
EN ISO 13844	Plastics piping systems – Elastomeric-sealing-ring-type socket joints for use with plastic pressure pipes – Test method for leak tightness under negative pressure, angular deflection and deformation (ISO 13844:2022)	23.040.20	2022-02



Oznaka norme	Naslov norme	ICS	Datum objave
EN ISO 14246	Gas cylinders – Cylinder valves – Manufacturing tests and examinations (ISO 14246:2022)	23.020.35	2022-02
EN ISO 15527	Plastics – Compression-moulded sheets of polyethylene (PE-UHMW, PE-HD) – Requirements and test methods (ISO 15527:2022)	83.140.10	2022-02
EN ISO 15798	Ophthalmic implants – Ophthalmic viscosurgical devices (ISO 15798:2022)	11.040.70	2022-02
EN ISO 17639	Destructive tests on welds in metallic materials – Macroscopic and microscopic examination of welds (ISO 17639:2022)	25.160.40	2022-02
CEN ISO/TS 19468	Intelligent transport systems – Data interfaces between centres for transport information and control systems – Platform-independent model specifications for data exchange protocols for transport information and control systems (ISO/TS 19468:2022)	03.220.20; 35.240.60	2022-02
EN ISO 19574	Footwear and footwear components – Qualitative test method to assess antifungal activity (growth test) (ISO 19574:2022)	61.060	2022-02
EN ISO 19901-10	Petroleum and natural gas industries – Specific requirements for offshore structures – Part 10: Marine geophysical investigations (ISO 19901-10:2021)	75.180.10	2022-02
EN ISO 23553-1	Safety and control devices for oil burners and oil-burning appliances – Particular requirements – Part 1: Automatic and semi-automatic valves (ISO 23553-1:2022)	27.060.10	2022-02
EN ISO 26825	Anaesthetic and respiratory equipment – User-applied labels for syringes containing drugs used during anaesthesia – Colours, design and performance (ISO 26825:2020)	11.040.10; 11.040.25	2022-02
EN ISO/ASTM/TR 52916	Additive manufacturing for medical – Data – Optimized medical image data (ISO/ASTM TR 52916:2022)	25.030	2022-02

## Europska normizacija (CENELEC)

Oznaka norme	Naslov norme	ICS	Datum objave
EN IEC 55025	Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on-board receivers (CISPR 25:2021)	33.060.20; 33.100.10; 33.100.20; 47.020.70	2022-02
EN IEC 60519-4	Safety in installations for electroheating and electromagnetic processing – Part 4: Particular requirements for arc furnace installations (IEC 60519-4:2021)	25.180.10	2022-02
EN IEC 60534-4	Industrial-process control valves – Part 4: Inspection and routine testing (IEC 60534-4:2021)	23.060.40	2022-02
EN IEC 60974-14/AC	Arc welding equipment – Part 14: Calibration, validation and consistency testing (IEC 60974-14:2018/COR1:2022)	25.160.30	2022-02
EN IEC 61223-3-7	Evaluation and routine testing in medical imaging departments – Part 3-7: Acceptance and constancy tests – Imaging performance of X-ray equipment for dental cone beam computed tomography (IEC 61223-3-7:2021)	11.040.50; 11.060.20	2022-02
EN IEC 61280-4-1/A1	Fibre-optic communication subsystem test procedures – Part 4-1: Installed cabling plant – Multimode attenuation measurement (IEC 61280-4-1:2019/AMD1:2021)	33.180.01	2022-02
EN IEC 61280-4-5/AC	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 61280-4-5:2020/COR1:2022)	33.180.01; 33.180.10	2022-02
EN IEC 61400-50-3	Wind energy generation systems – Part 50-3: Use of nacelle-mounted lidars for wind measurements (IEC 61400-50-3:2022)	27.180	2022-02
EN IEC 61587-1	Mechanical structures for electrical and electronic equipment – Tests for IEC 60917 and IEC 60297 series – Part 1: Environmental requirements, test setups and safety aspects (IEC 61587-1:2022)	31.240	2022-02
EN IEC 61970-456	Energy management system application program interface (EMS-API) – Part 456: Solved power system state profiles (IEC 61970-456:2021)	33.200; 35.240.50	2022-02
EN IEC 62093	Photovoltaic system power conversion equipment – Design qualification and type approval (IEC 62093:2022)	27.160	2022-02
EN IEC 62288	Maritime navigation and radiocommunication equipment and systems – Presentation of navigation-related information on shipborne navigational displays – General requirements, methods of testing and required test results (IEC 62288:2021)	47.020.70	2022-02
EN IEC 62439-2	Industrial communication networks – High availability automation networks – Part 2: Media Redundancy Protocol (MRP) (IEC 62439-2:2021)	25.040.40; 35.100.05; 35.110; 35.240.50	2022-02
EN IEC 62439-3	Industrial communication networks – High availability automation networks – Part 3: Parallel Redundancy Protocol (PRP) and High-availability Seamless Redundancy (HSR) (IEC 62439-3:2021)	25.040.40; 35.100.05; 35.110; 35.240.50	2022-02
EN IEC 63182-3	Magnetic powder cores – Guidelines on dimensions and the limits of surface irregularities – Part 3: E-cores (IEC 63182-3:2021)	29.100.10	2022-02
EN IEC 63203-406-1	Wearable electronic devices and technologies – Part 406-1: Test method for measuring surface temperature of wrist-worn wearable electronic devices while in contact with human skin (IEC 63203-406-1:2021)	17.200.20; 31.020; 59.080.80	2022-02
EN IEC 63246-3	Configurable car infotainment services (CCIS) – Part 3: Framework (IEC 63246-3:2022)	33.160.60; 33.160.99; 43.040.15	2022-02
EN IEC 81001-5-1	Health software and health IT systems safety, effectiveness and security – Part 5-1: Security – Activities in the product life cycle (IEC 81001-5-1:2021)	11.040.01; 35.080; 35.240.80	2022-02
CENELEC Guide 1	Survey of Resolutions of the CENELEC General Assembly	01.120	2022-02

## Europska normizacija (ETSI)

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 102221 V 17.1.0	Smart Cards – UICC-Terminal interface – Physical and logical characteristics (Release 17)	35.240.15	2022-02
ETSI TS 102859-1 V 1.3.1	Intelligent Transport Systems (ITS) – Testing – Conformance test specifications for Transmission of IP packets over GeoNetworking – Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) pro forma	35.240.60	2022-02
ETSI TS 102859-2 V 1.3.1	Intelligent Transport Systems (ITS) – Testing – Conformance test specifications for Transmission of IP packets over GeoNetworking – Part 2: Test Suite Structure and Test Purposes (TSS & TP)	35.240.60	2022-02
ETSI TS 102859-3 V 1.3.1	Intelligent Transport Systems (ITS) – Testing – Conformance test specifications for Transmission of IP packets over GeoNetworking – Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)	35.240.60	2022-02
ETSI TS 103192-1 V 1.2.1	Intelligent Transport Systems (ITS) – Testing – Interoperability test specifications for ITS V2X use cases – Part 1: Test requirements and Interoperability Feature Statement (IFS) pro forma	35.240.60	2022-02
ETSI TS 103192-2 V 1.2.1	Intelligent Transport Systems (ITS) – Testing – Interoperability test specifications for ITS V2X use cases – Part 2: Test Suite Structure and Test Purposes (TSS & TP)	35.240.60	2022-02
ETSI TS 103192-3 V 1.2.1	Intelligent Transport Systems (ITS) – Testing – Interoperability test specifications for ITS V2X use cases – Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)	35.240.60	2022-02
ETSI TR 103193 V 1.2.1	Intelligent Transport Systems (ITS) – Testing – Interoperability test specifications for ITS V2X use cases – Architecture of ITS Interoperability Validation Framework	35.240.60	2022-02
ETSI TS 103481 V 11.2.0	Smart Cards – Test specification for the Remote APDU structure for UICC based applications – UICC features (Release 11)	35.240.15	2022-02
ETSI TS 103600 V 1.2.1	Intelligent Transport Systems (ITS) – Testing – Interoperability test specifications for security	35.240.60	2022-02
ETSI TR 103774 V 1.1.1	System Reference document (SRdoc) – Short Range Devices (SRD): Technical Characteristics for Radio Equipment used for power transfer and communication with associated peripheral devices using the 917,5 MHz RFID interrogator channel	33.100.10	2022-02
ETSI TS 103813 V 15.1.0	Smart Secure Platform (SSP) – Test Specification, SPI interface (Release 15)	35.240.15	2022-02
ETSI TS 119312 V 1.4.2	Electronic Signatures and Infrastructures (ESI) – Cryptographic Suites	33.040.01	2022-02
ETSI TS 131124 V 16.6.1	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Mobile Equipment (ME) conformance test specification – Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification (3GPP TS 31.124 version 16.6.1 Release 16)	33.070.50	2022-02
ETSI GS MEC 010-2 V 2.2.1	Multi-access Edge Computing (MEC) – MEC Management – Part 2: Application lifecycle, rules and requirements management	33.070.99	2022-02
ETSI GS MEC 012 V 2.2.1	Multi-access Edge Computing (MEC) – Radio Network Information API	33.070.99	2022-02
ETSI GS MEC 021 V 2.2.1	Multi-access Edge Computing (MEC) – Application Mobility Service API	33.070.99	2022-02
ETSI GS NFV-SOL 001 V 3.6.1	Network Functions Virtualisation (NFV) Release 3 – Protocols and Data Models – NFV descriptors based on TOSCA specification	35.110	2022-02
ETSI GS NFV-SOL 002 V 3.6.1	Network Functions Virtualisation (NFV) Release 3 – Protocols and Data Models – RESTful protocols specification for the Ve-Vnfm Reference Point	33.040.40; 35.110	2022-02
ETSI GS NFV-SOL 005 V 3.6.1	Network Functions Virtualisation (NFV) Release 3 – Protocols and Data Models – RESTful protocols specification for the Os-Ma-nfvo Reference Point	35.110	2022-02



Oznaka norme	Naslov norme	ICS	Datum objave
ETSI GS NFV-SOL 009 V 3.6.1	Network Functions Virtualisation (NFV) Release 3 – Protocols and Data Models: RESTful protocols specification for the management of NFV-MANO	35.110	2022-02
ETSI GS ZSM 006 V 1.2.1	Zero-touch network and Service Management (ZSM) – Proof of Concept Framework	35.080	2022-02
EN 300338-8 V 1.1.1	Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 8: Enabling DSC radio equipment with remote control capabilities	33.060.20; 47.020.70	2022-02
EN 301908-13 V 13.2.1	IMT cellular networks – Harmonised Standard for access to radio spectrum – Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	33.060.20; 33.070.01	2022-02
EN 303363-1 V 1.1.1	Air Traffic Control Surveillance Radar Sensors – Secondary Surveillance Radar (SSR) – Harmonised Standard for access to radio spectrum – Part 1: SSR Interrogator	03.220.50; 33.060.99	2022-02
EN 319132-1 V 1.2.1	Electronic Signatures and Infrastructures (ESI) – XAdES digital signatures – Part 1: Building blocks and XAdES baseline signatures	35.240.30	2022-02

## Međunarodna normizacija (ISO)

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 1658	Natural rubber (NR) – Evaluation procedure	83.060	2022-01
ISO/TR 4553	Deformations and displacements of buildings and building elements at serviceability limit states	91.080.01	2022-01
ISO 7203-4	Fire extinguishing media – Foam concentrates – Part 4: Specification for Class A foam concentrates for application on Class A fires	13.220.10	2022-01
ISO 11617	Building and civil engineering sealants – Determination of changes in cohesion and appearance of elastic weatherproofing sealants after exposure of statically cured specimens to artificial weathering and mechanical cycling	91.100.50	2022-01
ISO 17639	Destructive tests on welds in metallic materials – Macroscopic and microscopic examination of welds	25.160.40	2022-01
ISO 24562	Prosthetics – Geometrical aspects of lower limb prosthetic adapters	11.040.40	2022-01
IEC/IEEE 80005-1 Edition 2.1	Utility connections in port – Part 1: High voltage shore connection (HVSC) systems – General requirements	47.020.60	2022-02
ISO 230-4	Test code for machine tools – Part 4: Circular tests for numerically controlled machine tools	25.040.20	2022-02
ISO 668 AMD 1	Series 1 freight containers – Classification, dimensions and ratings; Amendment 1	55.180.10	2022-02
ISO 871	Plastics – Determination of ignition temperature using a hot-air furnace	13.220.40; 83.080.01	2022-02
ISO 1704	Ships and marine technology – Stud-link anchor chains	47.020.50	2022-02
ISO/TR 3152	Road vehicles – Comparison between ISO 26262-12 and other parts of the ISO 26262 series to support motorcycle adaptation	43.040.10	2022-02
ISO 3518	Essential oil of sandalwood ( <i>Santalum album</i> L.)	71.100.60	2022-02
ISO 3915	Plastics – Measurement of resistivity of conductive plastics	83.080.01	2022-02
ISO 4254-17	Agricultural machinery – Safety – Part 17: Root crop harvesters	65.060.50	2022-02
ISO 5009	Financial services – Official organizational roles – Scheme for official organizational roles	03.060	2022-02
ISO 5258	Healthcare organization management – Pandemic response (respiratory) – Drive-through screening station	11.020.01	2022-02
ISO/TS 5667-25	Water quality – Sampling – Part 25: Guideline on the validation of the storage time of water samples	13.060.45	2022-02
ISO 6405-2 AMD 1	Earth-moving machinery – Symbols for operator controls and other displays – Part 2: Symbols for specific machines, equipment and accessories – Amendment 1: Additional symbols	01.080.20; 53.100	2022-02
ISO 6460-1	Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 1: General test requirements	13.040.50; 43.140	2022-02
ISO 6627	Internal combustion engines – Piston rings – Expander/rail oil-control rings	43.060.10	2022-02
ISO 6721-12	Plastics – Determination of dynamic mechanical properties – Part 12: Compressive vibration – Non-resonance method	83.080.01	2022-02
ISO 6798-3	Reciprocating internal combustion engines – Measurement of sound power level using sound pressure – Part 3: Survey method for use in situ	17.140.20; 27.020	2022-02
ISO 8103-9	Escalators and moving walks – Part 9: Measurement of ride quality	91.140.90	2022-02
ISO 8562	Cycles – Stem wedge angle	43.150	2022-02
ISO 9220	Metallic coatings – Measurement of coating thickness – Scanning electron microscope method	25.220.40	2022-02
ISO 10270	Corrosion of metals and alloys – Aqueous corrosion testing of zirconium alloys for use in nuclear power reactors	27.120.10; 77.060	2022-02
ISO/TR 10687	Mechanical vibration – Description and determination of seated postures with reference to whole-body vibration	13.160	2022-02
ISO 10716	Paper and board – Determination of alkali reserve	85.060	2022-02

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 11339	Adhesives – T-peel test for flexible-to-flexible bonded assemblies	83.180	2022-02
ISO/TR 11462-4	Guidelines for implementation of statistical process control (SPC) – Part 4: Reference data sets for measurement process analysis software validation	03.120.30	2022-02
ISO 11593	Robots for industrial environments – Automatic end effector exchange systems – Vocabulary	01.040.25; 25.040.30	2022-02
ISO 11806-1	Agricultural and forestry machinery – Safety requirements and testing for portable, hand-held, powered brush-cutters and grass-trimmers – Part 1: Machines fitted with an integral combustion engine	65.060.80	2022-02
ISO 12856-1	Railway applications – Polymeric composite sleepers, bearers and transoms – Part 1: Material characteristics	45.080; 83.140.99	2022-02
ISO 12856-3	Railway applications – Polymeric composite sleepers, bearers and transoms – Part 3: General requirements	45.080; 83.140.99	2022-02
ISO 13844	Plastics piping systems – Elastomeric-sealing-ring-type socket joints for use with plastic pipes – Test method for leaktightness under negative pressure, angular deflection and deformation	23.040.20	2022-02
ISO 14246	Gas cylinders – Cylinder valves – Manufacturing tests and examinations	23.020.35	2022-02
ISO 14520-17	Gaseous fire-extinguishing systems – Physical properties and system design – Part 17: Halocarbon Blend 55	13.220.10	2022-02
ISO 15013	Plastics – Extruded sheets of polypropylene (PP) – Requirements and test methods	83.140.10	2022-02
ISO 15527	Plastics – Compression-moulded sheets of polyethylene (PE-UHMW, PE-HD) – Requirements and test methods	83.140.10	2022-02
ISO 16457	Space environment (natural and artificial) – The Earth's ionosphere model – International reference ionosphere (IRI) model and extensions to the plasmasphere	07.060; 49.140	2022-02
ISO 16844-1	Road vehicles – Tachograph systems – Part 1: Electromechanical components	43.040.10	2022-02
ISO 16844-4	Road vehicles – Tachograph systems – Part 4: Display unit communication interface	43.040.10	2022-02
ISO 17194	Structural adhesives – Standard database of properties	83.180	2022-02
ISO 18665	Traditional Chinese medicine – Herbal decoction apparatus	11.040.99; 23.020.30; 27.060.30	2022-02
ISO 18909	Photography – Processed photographic colour films and paper prints – Methods for measuring image stability	37.040.20	2022-02
ISO/TS 19468	Intelligent transport systems – Data interfaces between centres for transport information and control systems – Platform-independent model specifications for data exchange protocols for transport information and control systems	03.220.20; 35.240.60	2022-02
ISO 20672	Ships and marine technology – Rate of turn indicators	47.020.70	2022-02
ISO 21395-2	Optics and photonics – Test method for refractive index of optical glasses – Part 2: V-block refractometer method	37.020	2022-02
ISO 21503	Project, programme and portfolio management – Guidance on programme management	03.100.01	2022-02
ISO 21504	Project, programme and portfolio management – Guidance on portfolio management	03.100.01	2022-02
ISO/TS 21985	Light gauge metal containers – Non-refillable LPG cartridges – General requirements	55.120	2022-02
ISO 22058	Construction procurement – Guidance on strategy and tactics	91.010.20	2022-02
ISO 22074-8	Railway infrastructure – Rail fastening systems – Part 8: Test method for vertical stiffness	45.080	2022-02
ISO 22402-2	Medium-transfer units for tool interfaces – Part 2: Transfer units for polygonal taper interfaces in accordance with the ISO 26623 series	25.060.20	2022-02
ISO 22480-1	Railway applications – Concrete sleepers and bearers for track – Part 1: General requirements	45.080	2022-02



Oznaka norme	Naslov norme	ICS	Datum objave
ISO 22480-2	Railway applications – Concrete sleepers and bearers for track – Part 2: Prestressed monoblock sleepers	45.080	2022-02
ISO 22555	Ships and marine technology – Propeller pitch indicators	47.020.70	2022-02
ISO 22578	Graphical symbols – Safety colours and safety signs – Natural disaster safety way guidance system	01.080.10	2022-02
ISO 22741-1	Intelligent transport systems – Roadside modules AP-DATEX data interface – Part 1: Overview	03.220.20; 35.240.60	2022-02
ISO 22769	Essential oil of Australian sandalwood [Santalum spicatum (R.Br.) A.DC.]	71.100.60	2022-02
ISO 23196	Water quality – Calculation of biological equivalence (BEQ) concentrations	13.060.70	2022-02
ISO 23257	Blockchain and distributed ledger technologies – Reference architecture	35.030; 35.240.40; 35.240.99	2022-02
ISO 23326	Human resource management – Employee engagement – Guidelines	03.100.30	2022-02
ISO 23472-5	Foundry machinery – Vocabulary – Part 5: Cupola furnaces and pouring devices and ladles	01.040.77; 77.180	2022-02
ISO 23553-1	Safety and control devices for oil burners and oil-burning appliances – Particular requirements – Part 1: Automatic and semi-automatic valves	27.060.10	2022-02
ISO 23956	Traditional Chinese medicine – Determination of benzopyrene in processed natural products	11.120.10	2022-02
ISO 24020	Corrosion of metals and alloys – Standard test method for particle-free erosion corrosion of metallic materials by jet-in-slit	77.060	2022-02
ISO 24162	Test method for energy consumption of refuse collection vehicles	43.160	2022-02
ISO 24649	Agricultural irrigation equipment – Manually and hydraulically operated plastics valves	65.060.35	2022-02
ISO 25550	Ageing societies – General requirements and guidelines for an age-inclusive workforce	03.100.30	2022-02
ISO 25552	Ageing societies – Framework for dementia-inclusive communities	11.020.10	2022-02
ISO 26021-1	Road vehicles – End-of-life activation of in-vehicle pyrotechnic devices – Part 1: Application and communication interface	43.040.80	2022-02
ISO 28927-13	Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 13: Fastener driving tools	13.160; 25.140.10	2022-02
ISO 31073	Risk management – Vocabulary	01.040.03; 03.100.01	2022-02

## Međunarodna normizacija (IEC)

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/IEC TS 17021-14	Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 14: Competence requirements for auditing and certification of management systems for records	03.120.20	2022-01
ISO/IEC 23094-4	Information technology – General video coding – Part 4: Conformance and reference software for essential video coding	35.040.40	2022-01
IECEX 02	IEC System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres (IECEX System) – IECEX Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules of Procedure	29.260.20	2022-02
IEC 60034-1	Rotating electrical machines – Part 1: Rating and performance	29.160.01	2022-02
IEC 60050-417	International Electrotechnical Vocabulary (IEV) – Part 417: Marine energy – Wave, tidal and other water current converters	01.040.27; 27.140; 27.190	2022-02
IEC 60400 AMD 2	Lampholders for tubular fluorescent lamps and starterholders; Amendment 2	29.140.10	2022-02
IEC 60400 Edition 8.2	Lampholders for tubular fluorescent lamps and starterholders	29.140.10	2022-02
IEC 60728-115	Cable networks for television signals, sound signals and interactive services – Part 115: In-building optical systems for broadcast signal transmissions	33.060.40; 33.160.01; 33.170; 33.180.01	2022-02
IEC 60794-1-404	Optical fibre cables – Part 1-404: Generic specification – Basic optical cable test procedures – Electrical test methods – Current-temperature test, method H4	33.180.10	2022-02
IEC 60794-3	Optical fibre cables – Part 3: Outdoor cables – Sectional specification	33.180.10	2022-02
IEC 60898-3 AMD 1	Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 3: Circuit-breakers for DC operation; Amendment 1	29.120.50	2022-02
IEC 60898-3 Edition 1.1	Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 3: Circuit-breakers for DC operation	29.120.50	2022-02
IEC 61000-4-20	Electromagnetic compatibility (EMC) – Part 4-20: Testing and measurement techniques – Emission and immunity testing in transverse electromagnetic (TEM) waveguides	33.100.01; 33.100.10; 33.100.20	2022-02
IEC 61094-2 AMD 1	Electroacoustics – Measurement microphones – Part 2: Primary method for pressure calibration of laboratory standard microphones by the reciprocity technique; Amendment 1	17.140.50; 33.160.50	2022-02
IEC 61094-2 Edition 2.1	Electroacoustics – Measurement microphones – Part 2: Primary method for pressure calibration of laboratory standard microphones by the reciprocity technique	17.140.50; 33.160.50	2022-02
IEC 61169-1-5	Radio frequency connectors – Part 1-5: Electrical test methods – Rise time degradation	33.120.10; 33.120.30	2022-02
IEC 61169-1-6	Radio-frequency connectors – Part 1-6: Electrical test methods – RF power	33.120.30	2022-02
IEC 61169-21	Radio-frequency connectors – Part 21: Sectional specification for RF connectors with inner diameter of outer conductor 9,5 mm (0,374 in) with screw coupling – Characteristic impedance 50 ohms (Type SC)	33.120.30	2022-02
IEC 61169-67	Radio-frequency connectors – Part 67: Sectional specification for series TRL threaded triaxial connectors	33.120.30	2022-02
IEC 61169-68	Radio-frequency connectors – Part 68: Sectional specification for series TRK bayonet coupling triaxial connectors	33.120.30	2022-02
IEC 61189-2-501	Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 2-501: Test methods for materials for interconnection structures – Measurement of resilience strength and resilience strength retention factor of flexible dielectric materials	31.180; 31.190	2022-02
IEC 61196-1-200	Coaxial communication cables – Part 1-200: Environmental test methods – General requirements	33.120.10	2022-02

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IEC 61753-091-02	Fibre optic interconnecting devices and passive components – Performance standard – Part 091-02: Non-connectorized 3-port incompletely circulated singlemode fibre optic circulators for category C – Controlled environments	33.180.20	2022-02
IEC 61754-4	Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 4: Type SC connector family	33.180.20	2022-02
IEC 61754-6	Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 6: Type MU connector family	33.180.20	2022-02
IEC/TR 61850-10-3	Communication networks and systems for power utility automation – Part 10-3: Functional testing of IEC 61850 systems	33.040.40; 33.200	2022-02
IEC 61935-2	Specification for the testing of balanced and coaxial information technology cabling – Part 2: Cords as specified in ISO/IEC 11801-1 and related standards	33.040.20; 33.120.10; 33.120.20	2022-02
IEC 61968-100	Application integration at electric utilities – System interfaces for distribution management – Part 100: IEC implementation profiles for application integration	29.240.01; 33.200; 35.240.99	2022-02
IEC 61970-301 AMD 1	Energy management system application program interface (EMS-API) – Part 301: Common information model (CIM) base; Amendment 1	33.040.20; 33.200; 35.240.50	2022-02
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IEC 62228-7	Integrated circuits – EMC evaluation of transceivers – Part 7: CXPI transceivers	31.200	2022-02
IEC 62282-3-201 AMD 1	Fuel cell technologies – Part 3-201: Stationary fuel cell power systems – Performance test methods for small fuel cell power systems; Amendment 1	27.070	2022-02
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IEC 62442-1	Energy performance of lamp controlgear – Part 1: Controlgear for fluorescent lamps – Method of measurement to determine the total input power of controlgear circuits and the efficiency of controlgear	29.140.99	2022-02
IEC 62442-2	Energy performance of lamp controlgear – Part 2: Controlgear for discharge lamps (excluding low-pressure mercury fluorescent lamps) – Method of measurement to determine the efficiency of controlgear	29.140.99	2022-02
IEC 62442-3	Energy performance of lamp controlgear – Part 3: Controlgear for tungsten-halogen lamps and LED light sources – Method of measurement to determine the efficiency of controlgear	29.140.99	2022-02
IEC/TS 62607-6-9	Nanomanufacturing – Key control characteristics – Part 6-9: Graphene-based material – Sheet resistance: Eddy current method	07.120	2022-02
IEC/TS 62607-6-11	Nanomanufacturing – Key control characteristics – Part 6-11: Graphene – Defect density: Raman spectroscopy	07.120	2022-02
IEC 62788-7-3	Measurement procedures for materials used in photovoltaic modules – Part 7-3: Accelerated stress tests – Methods of abrasion of PV module external surfaces	27.160	2022-02
IEC 62872-2	Industrial-process measurement, control and automation – Part 2: Internet of Things (IoT) – Application framework for industrial facility demand response energy management	25.040.40; 27.015; 29.240.01; 35.020; 35.240.50; 35.240.95	2022-02
IEC/TS 62876-3-1	Nanomanufacturing – Reliability assessment – Part 3-1: Graphene-based material – Stability: Temperature and humidity test	07.120; 31.020	2022-02
IEC SRD 63219	Active assisted living (AAL) system development guidance for AAL service providers	11.180.01; 97.120	2022-02



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IEC 63295	Specification for WB series glass beads with 50 impedance for RF connectors	33.120.30	2022-02
IEC/TS 63349-2	Photovoltaic direct-driven appliance controllers – Part 2: Operation modes and graphic display	27.160	2022-02
IEC/TR 63362-1	Application of fixed capacitors in electronic equipment – Part 1: Aluminium electrolytic capacitors	31.060.50	2022-02
IEC 63373	Dynamic on-resistance test method guidelines for GaN HEMT based power conversion devices	31.080.30; 31.080.99	2022-02
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ISO/IEC 23009-8	Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 8: Session-based DASH operations	35.040.40	2022-02
ISO/IEC 23751	Information technology – Cloud computing and distributed platforms – Data sharing agreement (DSA) framework	35.210	2022-02
ISO/IEC 24745	Information security, cybersecurity and privacy protection – Biometric information protection	35.030	2022-02
ISO/IEC 27002	Information security, cybersecurity and privacy protection – Information security controls	35.030	2022-02
ISO/IEC 30162	Internet of Things (IoT) – Compatibility requirements and model for devices within industrial IoT systems	35.020	2022-02
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