

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

1/2023

31. siječnja 2023.

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 8, Brodogradnja

HRN EN ISO 9094:2023 en pr  
Mala plovila – Protupožarna zaštita (ISO 9094:2022; EN ISO 9094:2022)  
Small craft – Fire protection (ISO 9094:2022; EN ISO 9094:2022)

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

HRN EN 12259-13:2023 en pr  
Stabilni protupožarni sustavi – Dijelovi sustava za prskanje (sprinkler sustava) i sustava raspršene vode – 13. dio: ESFR sprinkleri (EN 12259-13:2022)  
Fixed firefighting systems – Components for sprinkler and water spray systems – Part 13: ESFR sprinklers (EN 12259-13:2022)

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

HRN EN ISO 3679:2023 en pr  
Određivanje točke paljenja – Metoda određivanja pojave plamena i točke paljenja u zatvorenoj posudi manjih dimenzija (ISO 3679:2022; EN ISO 3679:2022)  
Determination of flash point – Method for flash no-flash and flash point by small scale closed cup tester (ISO 3679:2022; EN ISO 3679:2022)

### HZN/TO 34, Poljoprivredni i prehrambeni proizvodi

HRN EN 17735:2023 en pr  
Komercijalne perilice posuđa – Higijenski zahtjevi i ispitivanja (EN 17735:2022)  
Commercial dishwashing machines – Hygiene requirements and testing (EN 17735:2022)

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

HRN EN ISO 4761:2023 en pr  
Nerazorno ispitivanje zavara – Ultrazvučno ispitivanje čeličnih komponenti tankih stijenki višepretvorničkom tehnikom (UT-PA) – Razine prihvatljivosti (ISO 4761:2022; EN ISO 4761:2022)  
Non-destructive testing of welds – Phased array ultrasonic testing (UT-PA) for thin-walled steel components – Acceptance levels (ISO 4761:2022; EN ISO 4761:2022)

HRN EN ISO 9455-1:2023 en pr  
Talila za meko lemljenje – Metode ispitivanja – 1. dio: Određivanje nehlapivih tvari, gravimetrijska metoda (ISO 9455-1:2022; EN ISO 9455-1:2022)  
Soft soldering fluxes – Test methods – Part 1: Determination of non-volatile matter, gravimetric method (ISO 9455-1:2022; EN ISO 9455-1:2022)

HRN EN ISO 9455-6:2023 en pr  
Talila za meko lemljenje – Metode ispitivanja – 6. dio: Određivanje i otkrivanje sadržaja halida (isključujući fluoride) (ISO 9455-6:2022; EN ISO 9455-6:2022)  
Soft soldering fluxes – Test methods – Part 6: Determination and detection of halide (excluding fluoride) content (ISO 9455-6:2022; EN ISO 9455-6:2022)

### HZN/TO 86, Uređaji za hlađenje, klimatizaciju i dizalice topline

HRN EN 15218:2023 en pr  
Klimatizacijski uređaji i rashladnici kapljevine s kondenzatorom hlađenim ishlapljivanjem i kompresorima na električni pogon, za hlađenje prostora – Nazivi, definicije, uvjeti ispitivanja, metode ispitivanja i zahtjevi (EN 15218:2022)  
Air conditioners and liquid chilling packages with evaporatively cooled condenser and with electrically driven compressors for space cooling – Terms, definitions, test conditions, test methods and requirements (EN 15218:2022)

HRN EN 16147:2023 en pr  
Dizalice topline s kompresorima na električni pogon – Ispitivanje, ocjenjivanje značajka i zahtjevi za označavanje uređaja za pripremu potrošne tople vode (EN 16147:2017+A1:2022)  
Heat pumps with electrically driven compressors – Testing, performance rating and requirements for marking of domestic hot water units (EN 16147:2017+A1:2022)

### HZN/TO 92, Zaštita od požara

HRN EN 13501-6:2023 en pr  
Razredba građevnih proizvoda i građevnih elemenata prema ponašanju u požaru – 6. dio: Razredba prema rezultatima ispitivanja reakcije na požar energetskih, upravljačkih i komunikacijskih kabela (EN 13501-6:2018+A1:2022)  
Fire classification of construction products and building elements – Part 6: Classification using data from reaction to fire tests on power, control and communication cables (EN 13501-6:2018+A1:2022)

HRN EN 17020-2:2023 en pr  
Proširena primjena rezultata ispitivanja trajnosti samozatvaranja za vrata i prozore koji se mogu otvarati otpornih na požar i/ili s kontrolom propusnosti dima – 2. dio: Trajnost samozatvaranja čeličnih roleta (EN 17020-2:2022)  
Extended application of test results on durability of self-closing for fire resistance and/or smoke control doorsets and openable windows – Part 2: Durability of self-closing of steel rolling shutters (EN 17020-2:2022)

### HZN/TO 120, Koža i obuća

HRN EN ISO 7906:2023 en pr  
Koža – Ispitivanja postojanosti boje – Opća načela ispitivanja (ISO 7906:2022; EN ISO 7906:2022)  
Leather – Tests for colour fastness – General principles of testing (ISO 7906:2022; EN ISO 7906:2022)

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

HRN EN ISO 21917:2023 en pr  
Anestetička i respiracijska oprema – Proteze za glas (ISO 21917:2021; EN ISO 21917:2022)  
Anaesthetic and respiratory equipment – Voice prostheses (ISO 21917:2021; EN ISO 21917:2022)

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

HRN EN 1455-1:2023 en pr  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niska i visoka temperatura) unutar građevinskih konstrukcija – Akrlonitril/butadien/stiren (ABS) – 1. dio: Zahtjevi za cijevi, spojnice i sustav (EN 1455-1:2022)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Acrylonitrile-butadiene-styrene (ABS) – Part 1: Requirements for pipes, fittings and the system (EN 1455-1:2022)

HRN EN 1566-1:2023 en pr

Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Klorirani poli(vinil-klorid) (PVC-C) – 1. dio: Zahtjevi za cijevi, spojnice i sustav (EN 1566-1:2022)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Chlorinated poly(vinyl chloride) (PVC-C) – Part 1: Requirements for pipes, fittings and the system (EN 1566-1:2022)

HRS CEN/TS 17152-3:2023 en pr

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i akumulacija nepitke vode – Spremnici za sustave ispuštanja, privremene i trajne akumulacije – 3 dio: Ocjenjivanje sukladnosti (CEN/TS 17152-3:2022)  
Plastics piping systems for non-pressure underground conveyance and storage of non-potable water – Boxes used for infiltration, attenuation and storage systems – Part 3: Conformity assessment scheme (CEN/TS 17152-3:2022)

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

HRN EN 14884:2023 en pr

Emisije iz nepokretnih izvora – Određivanje ukupne žive – Automatski mjerni sustavi (EN 14884:2022)  
Stationary source emissions – Determination of total mercury – Automated measuring systems (EN 14884:2022)

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

HRN EN ISO 7704:2023 en pr

Kvaliteta vode – Zahtjevi za ispitivanje učinkovitosti membranskih filtera koji se upotrebljavaju za direktno određivanje broja mikroorganizama metodama ovisnim o uzgoju (ISO 7704:2023; EN ISO 7704:2023)  
Water quality – Requirements for the performance testing of membrane filters used for direct enumeration of microorganisms by culture methods (ISO 7704:2023; EN ISO 7704:2023)

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

HRN ISO 8100-34:2023 en pr

Dizala za prijevoz osoba i tereta – 34. dio: Mjerenje kvalitete vožnje (ISO 8100-34:2021)  
Lifts for the transport of persons and goods – Part 34: Measurement of lift ride quality (ISO 8100-34:2021)

HRN ISO 8103-9:2023 en pr

Pokretne stube i pokretne trake – 9. dio: Mjerenje kvalitete vožnje (ISO 8103-9:2022)  
Escalators and moving walks – Part 9: Measurement of ride quality (ISO 8103-9:2022)

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

HRI ISO/TR 14047:2023 en pr

Upravljanje okolišem – Procjena životnog ciklusa (LCA) – Ilustrativni primjeri primjene norme ISO 14044 u procjeni utjecaja životnog ciklusa (LCIA) (ISO/TR 14047:2012)  
Environmental management – Life cycle assessment – Illustrative examples on how to apply ISO 14044 to impact assessment situations (ISO/TR 14047:2012)

HRI ISO/TR 14049:2023 en pr

Upravljanje okolišem – Procjena životnog ciklusa (LCA) – Ilustrativni primjeri primjene norme ISO 14044 u definiranju cilja i opsega te u analizi inventara životnog ciklusa (LCI) (ISO/TR 14049:2012)  
Environmental management – Life cycle assessment – Illustrative examples on how to apply ISO 14044 to goal and scope definition and inventory analysis (ISO/TR 14049:2012)

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

HRN EN ISO/IEEE 11073-10404:2023 en pr

Zdravstvena informatika – Interoperabilnost uređaja – 10404. dio: Povezivost osobnoga medicinskog uređaja – Specijalni uređaji – Pulsni oksimetar (ISO/IEEE 11073-10404:2022; EN ISO/IEEE 11073-10404:2022)  
Health informatics – Device interoperability – Part 10404: Personal health device communication – Device specialization – Pulse oximeter (ISO/IEEE 11073-10404:2022; EN ISO/IEEE 11073-10404:2022)

HRN EN ISO/IEEE 11073-10407:2023 en pr

Zdravstvena informatika – Interoperabilnost uređaja – 10407. dio: Povezivost osobnoga medicinskog uređaja – Specijalni uređaji – Uređaj za praćenje krvnoga tlaka (ISO/IEEE 11073-10407:2022; EN ISO/IEEE 11073-10407:2022)  
Health informatics – Device interoperability – Part 10407: Personal health device communication – Device specialization – Blood pressure monitor (ISO/IEEE 11073-10407:2022; EN ISO/IEEE 11073-10407:2022)

HRN EN ISO/IEEE 11073-10408:2023 en pr

Zdravstvena informatika – Interoperabilnost uređaja – 10408. dio: Povezivost osobnoga medicinskog uređaja – Specijalni uređaji – Toplomjer (ISO/IEEE 11073-10408:2022; EN ISO/IEEE 11073-10408:2022)  
Health informatics – Device interoperability – Part 10408: Personal health device communication – Device specialization – Thermometer (ISO/IEEE 11073-10408:2022; EN ISO/IEEE 11073-10408:2022)

HRN EN ISO/IEEE 11073-10415:2023 en pr

Zdravstvena informatika – Interoperabilnost uređaja – 10415. dio: Povezivost osobnoga medicinskog uređaja – Specijalni uređaji – Vaga (ISO/IEEE 11073-10415:2022; EN ISO/IEEE 11073-10415:2022)  
Health informatics – Device interoperability – Part 10415: Personal health device communication – Device specialization – Weighing scale (ISO/IEEE 11073-10415:2022; EN ISO/IEEE 11073-10415:2022)

HRN EN ISO/IEEE 11073-10420:2023 en pr

Zdravstvena informatika – Interoperabilnost uređaja – 10420. dio: Povezivost osobnoga medicinskog uređaja – Specijalni uređaji – Analizator tjelesnog sastava (ISO/IEEE 11073-10420:2022; EN ISO/IEEE 11073-10420:2022)  
Health informatics – Device interoperability – Part 10420: Personal health device communication – Device specialization – Body composition analyzer (ISO/IEEE 11073-10420:2022; EN ISO/IEEE 11073-10420:2022)

HRN EN ISO/IEEE 11073-20601:2023 en pr

Zdravstvena informatika – Interoperabilnost uređaja – 20601. dio: Povezivost osobnoga medicinskog uređaja – Profil aplikacije – Optimizirani protokol izmjene podataka (ISO/IEEE 11073-20601:2022; EN ISO/IEEE 11073-20601:2022)  
Health informatics – Device interoperability – Part 20601: Personal health device communication – Application profile – Optimized exchange protocol (ISO/IEEE 11073-20601:2022; EN ISO/IEEE 11073-20601:2022)

## **HZN/TO 502, Plinski uređaji**

HRN EN 1854:2023 en pr

Sigurnosni i regulacijski uređaji za plamenike i uređaje na plinovita i/ili tekuća goriva – Osjetnici tlaka za plinske plamenike i plinske uređaje (EN 1854:2022)  
Safety and control devices for burners and appliances burning gaseous and/or liquid fuels – Pressure sensing devices for gas burners and gas burning appliances (EN 1854:2022)

HRN EN 16905-5:2023 en pr

Dizalice topline s plinskim endotermnim motorom – 5. dio: Proračun sezonskih značajki pri grijanju i hlađenju (EN 16905-5:2022)  
Gas-fired endothermic engine driven heat pumps – Part 5: Calculation of seasonal performances in heating and cooling mode (EN 16905-5:2022)

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

HRN EN 12020-2:2023 en pr  
Aluminij i aluminijeve legure – Istisnuti precizni profili od legura EN AW-6060 i EN AW-6063 – 2. dio: Dopusštena odstupanja dimenzija i oblika (EN 12020-2:2022)  
Aluminium and aluminium alloys – Extruded precision profiles in alloys EN AW-6060 and EN AW-6063 – Part 2: Tolerances on dimensions and form (EN 12020-2:2022)

## **HZN/TO 513, Mjerne jedinice i mjerila**

HRN EN ISO 4064-1:2017/A11:2023 en pr  
Vodomjeri za hladnu pitku vodu i vruću vodu – 1. dio: Mjeriteljski i tehnički zahtjevi (EN ISO 4064-1:2017/A11:2022)  
Water meters for cold potable water and hot water – Part 1: Metrological and technical requirements (EN ISO 4064-1:2017/A11:2022)

HRN EN ISO 4064-2:2017/A11:2023 en pr  
Vodomjeri za hladnu pitku vodu i vruću vodu – 2. dio: Metode ispitivanja (EN ISO 4064-2:2017/A11:2022)  
Water meters for cold potable water and hot water – Part 2: Test methods (EN ISO 4064-2:2017/A11:2022)

HRN EN ISO 4064-5:2017/A11:2023 en pr  
Vodomjeri za hladnu pitku vodu i vruću vodu – 5. dio: Zahtjevi za ugradnju (EN ISO 4064-5:2017/A11:2022)  
Water meters for cold potable water and hot water – Part 5: Installation requirements (EN ISO 4064-5:2017/A11:2022)

HRN EN ISO 25377:2023 en pr  
Smjernice za određivanje mjerne nesigurnosti u hidrometriji (ISO 25377:2020; EN ISO 25377:2022)  
Hydrometric uncertainty guidance (HUG) (ISO 25377:2020; EN ISO 25377:2022)

HRN EN ISO 80000-1:2023 en pr  
Veličine i jedinice – 1. dio: Općenito (ISO 80000-1:2022; EN ISO 80000-1:2022)  
Quantities and units – Part 1: General (ISO 80000-1:2022; EN ISO 80000-1:2022)

## **HZN/TO 515, Žičare, uspinjače i vučnice**

HRN EN 13223:2023 en pr  
Sigurnosni zahtjevi za žičare za prijevoz osoba – Pogonski sustavi i ostali mehanički uređaji (EN 13223:2015+A1:2022)  
Safety requirements for cableway installations designed to carry persons – Drive systems and other mechanical equipment (EN 13223:2015+A1:2022)

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

HRN EN 15330-4:2023 en pr  
Površine sportskih terena – Sintetičke travnate podloge i površine izrađene iglom prvenstveno dizajnirane za vanjsku upotrebu – 4. dio: Specifikacija amortizacijskih podloga korištenih uz sintetičke travnate podloge, površine izrađene iglom i tekstilne površine sportskih terena (EN 15330-4:2022)  
Surfaces for sports areas – Synthetic turf and needle-punched surfaces primarily designed for outdoor use – Part 4: Specification for shockpads used with synthetic turf, needle-punch and textile sports surfaces (EN 15330-4:2022)

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

HRN EN ISO 20524-1:2023 en pr  
Inteligentni transportni sustavi – Datoteke zemljopisnih podataka (GDF) GDF5.1 – 1. dio: Zemljopisni podaci neovisni o aplikaciji koji se dijele između više izvora (ISO 20524-1:2020; EN ISO 20524-1:2022)  
Intelligent transport systems – Geographic Data Files (GDF) GDF5.1 – Part 1: Application independent map data shared between multiple sources (ISO 20524-1:2020; EN ISO 20524-1:2022)

HRN EN ISO 20524-2:2023 en pr  
Inteligentni transportni sustavi – Datoteke zemljopisnih podataka (GDF) GDF5.1 – 2. dio: Zemljopisni podaci koji se upotrebljavaju u sustavima automatizirane vožnje, kooperativnom ITS-u i multimodalnom transportu (ISO 20524-2:2020; EN ISO 20524-2:2022)  
Intelligent transport systems – Geographic Data Files (GDF) GDF5.1 – Part 2: Map data used in automated driving systems, Cooperative ITS, and multi-modal transport (ISO 20524-2:2020; EN ISO 20524-2:2022)

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

HRN EN 13103-1:2023 en pr  
Željeznički sustav – Osovinski sklopovi i okretna postolja – 1. dio: Metoda projektiranja za vanjske nosive osovine (EN 13103-1:2017+A1:2022)  
Railway applications – Wheelsets and bogies – Part 1: Design method for axles with external journals (EN 13103-1:2017+A1:2022)

HRN EN 15437-1:2023 en pr  
Željeznički sustav – Nadzor nad stanjem kućišta osovinskih ležajeva – Zahtjevi povezivosti i oblikovanja – 1. dio: Uređaji za otkrivanje pregrijanih ležajeva i kućište osovinskih ležajeva (EN 15437-1:2009+A1:2022)  
Railway applications – Axlebox condition monitoring – Interface and design requirements – Part 1: Track side equipment and rolling stock axlebox (EN 15437-1:2009+A1:2022)

HRN EN 15437-2:2023 en pr  
Željeznički sustav – Nadzor nad stanjem kućišta osovinskih ležajeva – Zahtjevi povezivosti i oblikovanja – 2. dio: Radni zahtjevi i oblikovanje ugrađenih sustava za praćenje temperature (EN 15437-2:2012+A1:2022)  
Railway applications – Axlebox condition monitoring – Interface and design requirements – Part 2: Performance and design requirements of on-board systems for temperature monitoring (EN 15437-2:2012+A1:2022)

HRN EN 17682:2023 en pr  
Željeznički sustav – Infrastruktura – Elastičan element za sustav plivajuće ploče (EN 17682:2022)  
Railway applications – Infrastructure – Resilient element for floating slab system (EN 17682:2022)

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

HRN EN 13411-3:2023 en pr  
Završetci čeličnih užadi – Sigurnost – 3. dio: Omče s uprešanim stezaljkama (EN 13411-3:2022)  
Terminations for steel wire ropes – Safety – Part 3: Ferrules and ferrule-securing (EN 13411-3:2022)

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

HRN EN ISO 1675:2023 en pr  
Plastika – Kapljevite smole – Određivanje gustoće metodom piknometra (ISO 1675:2022; EN ISO 1675:2022)  
Plastics – Liquid resins – Determination of density by the pycnometer method (ISO 1675:2022; EN ISO 1675:2022)

HRN EN ISO 6401:2023 en pr  
Plastika – Poli(vinil-klorid) – Određivanje ostatnog vinil-klorida – Metoda plinske kromatografije (ISO 6401:2022; EN ISO 6401:2022)  
Plastics – Poly(vinyl chloride) – Determination of residual vinyl chloride monomer – Gas-chromatographic method (ISO 6401:2022; EN ISO 6401:2022)

## **HZN/TO 535, Agregati**

HRN EN 933-6:2023 en pr  
Ispitivanja geometrijskih svojstava agregata – 6. dio: Procjena značajka površina – Koeficijent protoka agregata (EN 933-6:2022)  
Tests for geometrical properties of aggregates – Part 6: Assessment of surface characteristics – Flow coefficient of aggregates (EN 933-6:2022)

## **HZN/TO 544, Strojni elementi**

HRN EN ISO 2702:2023 en pr  
Spojni elementi – Toplinski obrađeni čelični vijci za lim – Mehanička i fizikalna svojstva (ISO 2702:2022; EN ISO 2702:2022)  
Fasteners – Heat-treated tapping screws – Mechanical and physical properties (ISO 2702:2022; EN ISO 2702:2022)

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

HRN ISO 23616:2023 en pr  
Čišćenje, pregled i popravak osobne zaštitne opreme za vatrogasce (ISO 23616:2022)  
Cleaning, inspection and repair of firefighters' personal protective equipment (PPE) (ISO 23616:2022)

## **HZN/TO 557, Zaštitna odjeća**

HRN ISO 21942:2023 en pr  
Radna odjeća za vatrogasce (ISO 21942:2019)  
Station uniform for firefighters (ISO 21942:2019)

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

HRN EN 15618:2023 en pr  
Plošni tekstil naslojen gumom ili plastikom – Plošni tekstil za namještaj – Klasifikacija i metode ispitivanja (EN 15618:2022)  
Rubber-or plastic-coated fabrics – Upholstery fabrics – Classification and methods of test (EN 15618:2022)

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

HRN EN ISO 9809-4:2023 en pr  
Plinske boce – Projektiranje, konstruiranje i ispitivanje ponovo punjivih bešavnih, čeličnih plinskih boca i cilindričnih spremnika – 4. dio: Boce od nehrđajućeg čelika s Rm vrijednosti manjom od 1 100 MPa (ISO 9809-4:2021; EN ISO 9809-4:2022)  
Gas cylinders – Design, construction and testing of refillable seamless steel gas cylinders and tubes – Part 4: Stainless steel cylinders with an Rm value of less than 1 100 MPa (ISO 9809-4:2021; EN ISO 9809-4:2022)

HRN EN 13110:2023 en pr  
Oprema i pribor za UNP – Prenosive, ponovno punjive, zavarene aluminijske boce za ukapljeni naftni plin (UNP) – Projektiranje i izrada (EN 13110:2022)  
LPG equipment and accessories – Transportable refillable welded aluminium cylinders for liquefied petroleum gas (LPG) – Design and construction (EN 13110:2022)

HRN EN 13480-3:2017/A5:2023 en pr  
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun (EN 13480-3:2017/A5:2022)  
Metallic industrial piping – Part 3: Design and calculation (EN 13480-3:2017/A5:2022)

## **HZN/TO 562, Alatni strojevi i alati**

HRN EN ISO 16090-1:2023 en pr  
Sigurnost alatnih strojeva – Obradni centri, glodalice, strojevi za prijenos – 1. dio: Sigurnosni zahtjevi (ISO 16090-1:2022; EN ISO 16090-1:2022)  
Machine tools safety – Machining centres, milling machines, transfer machines – Part 1: Safety requirements (ISO 16090-1:2022; EN ISO 16090-1:2022)

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

HRN EN ISO 20813:2023 en pr  
Analiza molekularnih biomarkera – Metode analize za dokazivanje i identifikaciju životinjskih vrsta u hrani i prehrambenim proizvodima (metode zasnovane na nukleinskim kiselinama) – Opći zahtjevi i definicije (ISO 20813:2019; EN ISO 20813:2022)  
Molecular biomarker analysis – Methods of analysis for the detection and identification of animal species in foods and food products (nucleic acid-based methods) – General requirements and definitions (ISO 20813:2019; EN ISO 20813:2022)

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

HRN EN 50160:2023 en pr  
Naponske karakteristike električne energije iz javnih distribucijskih mreža (EN 50160:2022)  
Voltage characteristics of electricity supplied by public electricity networks (EN 50160:2022)

## **HZN/TO E20, Električni kabeli**

HRN EN 50576:2023 en pr  
Električni kabeli – Proširena primjena rezultata ispitivanja za reakciju na vatru (EN 50576:2022)  
Electric cables – Extended application of test results for reaction to fire (EN 50576:2022)

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

HRN EN IEC 60079-25:2022/Ispr.1:2023 en pr  
Eksplozivne atmosfere – 25. dio: Samosigurni električni sustavi (IEC 60079-25:2020/Corr.2:2022; EN IEC 60079-25:2022/AC:2022)  
Explosive atmospheres – Part 25: Intrinsically safe electrical systems (IEC 60079-25:2020/Corr.2:2022; EN IEC 60079-25:2022/AC:2022)

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

HRN EN IEC 62386-101:2023 en pr  
Digitalno upravljanje rasvjetom – 101. dio: Opći zahtjevi – Komponente sustava (IEC 62386-101:2022; EN IEC 62386-101:2022)  
Digital addressable lighting interface – Part 101: General requirements – System components (IEC 62386-101:2022; EN IEC 62386-101:2022)

HRN EN IEC 62386-102:2023 en pr  
Digitalno upravljanje rasvjetom – 102. dio: Opći zahtjevi – Predspojne naprave (IEC 62386-102:2022; EN IEC 62386-102:2022)  
Digital addressable lighting interface – Part 102: General requirements – Control gear (IEC 62386-102:2022; EN IEC 62386-102:2022)

HRN EN IEC 62386-103:2023 en pr  
Digitalno upravljanje rasvjetom – 103. dio: Opći zahtjevi – Upravljački uređaji (IEC 62386-103:2022; EN IEC 62386-103:2022)  
Digital addressable lighting interface – Part 103: General requirements – Control devices (IEC 62386-103:2022; EN IEC 62386-103:2022)

## **HZN/TO E38, Mjerni transformatori**

HRN EN IEC 61869-99:2023 en pr  
Mjerni transformatori – 99. dio: Rječnik (IEC 61869-99:2022; EN IEC 61869-99:2022)  
Instrument transformers – Part 99: Glossary (IEC 61869-99:2022; EN IEC 61869-99:2022)

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

HRN EN IEC 62372:2023 en pr  
Nuklearna instrumentacija – Scintilatori u kućištu – Metode ispitivanja optičkog izlaza i unutarnje rezolucije (IEC 62372:2021; EN IEC 62372:2022)  
Nuclear instrumentation – Housed scintillators – Test methods of light output and intrinsic resolution (IEC 62372:2021; EN IEC 62372:2022)

HRN EN IEC 62976:2019/A1:2023 en pr  
Industrijska nedestruktivna oprema za testiranje – Linearni akceleratori elektrona (IEC 62976:2017/am1:2021; EN IEC 62976:2019/A1:2022)  
Industrial non-destructive testing equipment – Electron linear accelerator (IEC 62976:2017/am1:2021; EN IEC 62976:2019/A1:2022)

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

HRN EN IEC 61406-1:2023 en pr  
Identifikacijska veza – 1. dio: Opći zahtjevi (IEC 61406-1:2022; EN IEC 61406-1:2022)  
Identification Link – Part 1: General requirements (IEC 61406-1:2022; EN IEC 61406-1:2022)

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

HRN EN IEC 61980-3:2023 en pr  
Sustavi bežičnog prijenosa energije (WPT) u električna vozila – 3. dio: Posebni zahtjevi za bežične sustave prijenosa energije putem magnetskog polja (IEC 61980-3:2022; EN IEC 61980-3:2022)  
Electric vehicle wireless power transfer (WPT) systems – Part 3: Specific requirements for the magnetic field wireless power transfer systems (IEC 61980-3:2022; EN IEC 61980-3:2022)

## **HZN/TO E88, Vjetroagregati**

HRN EN IEC 61400-50-1:2023 en pr  
Sustavi za proizvodnju energije iz vjetra – Dio 50-1: Mjerenje vjetra – Primjena instrumenata postavljenih na meteorološki toranj, gondolu i rotor (IEC 61400-50-1:2022; EN IEC 61400-50-1:2022)  
Wind energy generation systems – Part 50-1: Wind measurement – Application of meteorological mast, nacelle and spinner mounted instruments (IEC 61400-50-1:2022; EN IEC 61400-50-1:2022)

## **HZN/TO E99, Električne instalacije iznad 1 kV izmjenične i 1,5 kV istosmjjerne struje**

HRN EN IEC 60071-11:2023 en pr  
Usklađivanje izolacije – 11. dio: Definicije, načela i pravila za istosmjerni sustav visokog napona (HVDC) (IEC 60071-11:2022; EN IEC 60071-11:2022)  
Insulation co-ordination – Part 11: Definitions, principles and rules for HVDC system (IEC 60071-11:2022; EN IEC 60071-11:2022)

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

HRN EN IEC 60216-5:2023 en pr  
Električni izolacijski materijali – Svojstva toplinske izdržljivosti – 5. dio: Određivanje relativnog indeksa temperature (RTI) izolacijskog materijala (IEC 60216-5:2022; EN IEC 60216-5:2022)  
Electrical insulating materials – Thermal endurance properties – Part 5: Determination of relative temperature index (RTI) of an insulating material (IEC 60216-5:2022; EN IEC 60216-5:2022)

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

HRN EN 50600-4-8:2023 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 4-8: Učinkovitost korištenja ugljika (EN 50600-4-8:2022)  
Information technology – Data centre facilities and infrastructures – Part 4-8: Carbon usage effectiveness (EN 50600-4-8:2022)

HRN EN 50600-4-9:2023 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 4-9: Učinkovitost korištenja vode (EN 50600-4-9:2022)  
Information technology – Data centre facilities and infrastructures – Part 4-9: Water Usage Effectiveness (EN 50600-4-9:2022)

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

HRN EN 300 468 V1.17.1:2023 en pr  
Digitalna videodifuzija (DVB) – Specifikacije za servisne informacije (SI) u DVB sustavima (EN 300 468 V1.17.1:2022)  
Digital Video Broadcasting (DVB) – Specification for Service Information (SI) in DVB systems (EN 300 468 V1.17.1:2022)

HRN EN 301 406-1 V3.1.1:2023 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Harmonizirana norma za pristup radijskom spektru – 1. dio: DECT, DECT Evolution i DECT ULE (EN 301 406-1 V3.1.1:2022)  
Digital Enhanced Cordless Telecommunications (DECT) – Harmonised Standard for access to radio spectrum – Part 1: DECT, DECT Evolution and DECT ULE (EN 301 406-1 V3.1.1:2022)

HRN EN 303 808 V1.1.1:2023 en pr  
Inženjerstvo okoliša (EE) – Primjenjivost metoda normi EN 45552 do EN 45559 za procjenu aspekata materijalne učinkovitosti IKT mrežne infrastrukture u kontekstu kruznoga gospodarstva (EN 303 808 V1.1.1:2023)  
Environmental Engineering (EE) – Applicability of EN 45552 to EN 45559 methods for assessment of material efficiency aspects of ICT network infrastructure goods in the context of circular economy (EN 303 808 V1.1.1:2023)

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

HRN EN 16589-1:2023 en pr  
Lokalni ispušni sustavi u laboratoriju – 1. dio: Opći zahtjevi i metode ispitivanja za zglobne usisne ruke (EN 16589-1:2022)  
Laboratory local exhaust devices – Part 1: General requirements and type test methods for articulated extraction arms (EN 16589-1:2022)

HRN EN ISO 22916:2023 en pr  
Mikrofluidni uređaji – Zahtjevi kompatibilnosti za dimenzije, veze i početnu klasifikaciju uređaja (ISO 22916:2022; EN ISO 22916:2022)  
Microfluidic devices – Interoperability requirements for dimensions, connections and initial device classification (ISO 22916:2022; EN ISO 22916:2022)

## **HZN/TU I1, Strojarstvo 1**

HRN EN ISO 8528-10:2023 en pr  
Generator pogonjen motorom s unutarnjim izgaranjem – 10. dio: Mjerenje buke u zraku (ISO 8528-10:2022; EN ISO 8528-10:2022)  
Reciprocating internal combustion engine driven alternating current generating sets – Part 10: Measurement of airborne noise (ISO 8528-10:2022; EN ISO 8528-10:2022)

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

HRN EN ISO 8769:2023 en pr  
Mjerenje radioaktivnosti – Radionuklidi koji emitiraju alfa i beta čestice i fotone – Standardne specifikacije referentnih mjerenja za kalibraciju monitora površinske kontaminacije (ISO 8769:2020; EN ISO 8769:2022)  
Measurement of radioactivity – Alpha-, beta- and photon emitting radionuclides – Reference measurement standard specifications for the calibration of surface contamination monitors (ISO 8769:2020; EN ISO 8769:2022)

HRN EN ISO 9978:2023 en pr  
Zaštita od zračenja – Zatvoreni izvori – Metode ispitivanja propuštanja (ISO 9978:2020; EN ISO 9978:2022)  
Radiation protection – Sealed sources – Leakage test methods (ISO 9978:2020; EN ISO 9978:2022)

HRN EN ISO 13304-1:2023 en pr  
Radiološka zaštita – Minimalni kriteriji za spektroskopiju elektronske paramagnetne rezonancije (EPR) za retrospektivnu dozimetriju ionizirajućeg zračenja – 1. dio: Opća načela (ISO 13304-1:2020; EN ISO 13304-1:2022)  
Radiological protection – Minimum criteria for electron paramagnetic resonance (EPR) spectroscopy for retrospective dosimetry of ionizing radiation – Part 1: General principles (ISO 13304-1:2020; EN ISO 13304-1:2022)

- HRN EN ISO 13304-2:2023 en pr  
Radiološka zaštita – Minimalni kriteriji za spektroskopiju elektronske paramagnetne rezonancije (EPR) za retrospektivnu dozimetriju ionizirajućeg zračenja – 2. dio: Ex vivo dozimetrija ljudske zubne cakline (ISO 13304-2:2020; EN ISO 13304-2:2022)  
Radiological protection – Minimum criteria for electron paramagnetic resonance (EPR) spectroscopy for retrospective dosimetry of ionizing radiation – Part 2: Ex vivo human tooth enamel dosimetry (ISO 13304-2:2020; EN ISO 13304-2:2022)
- HRN EN 16510-1:2023 en pr  
Uređaji na kruta goriva za kućanstva – 1. dio: Opći zahtjevi i metode ispitivanja (EN 16510-1:2022)  
Residential solid fuel burning appliances – Part 1: General requirements and test methods (EN 16510-1:2022)
- HRN EN 16510-2-1:2023 en pr  
Uređaji na kruta goriva za kućanstva – Dio 2-1: Grijalice prostora (EN 16510-2-1:2022)  
Residential solid fuel burning appliances – Part 2-1: Room heaters (EN 16510-2-1:2022)
- HRN EN 16510-2-2:2023 en pr  
Uređaji na kruta goriva za kućanstva – Dio 2-2: Ugradbeni kamini uključujući kamine s otvorenim ognjištem (EN 16510-2-2:2022)  
Residential solid fuel burning appliances – Part 2-2: Inset appliances including open fires (EN 16510-2-2:2022)
- HRN EN 16510-2-3:2023 en pr  
Uređaji na kruta goriva za kućanstva – Dio 2-3: Štednjaci (EN 16510-2-3:2022)  
Residential solid fuel burning appliances – Part 2-3: Cookers (EN 16510-2-3:2022)
- HRN EN 16510-2-4:2023 en pr  
Uređaji na kruta goriva za kućanstva – Dio 2-4: Samostojeći kotlovi – Nazivna toplinska snaga do 50 kW (EN 16510-2-4:2022)  
Residential solid fuel burning appliances – Part 2-4: Independent boilers – Nominal heat output up to 50 kW (EN 16510-2-4:2022)
- HRN EN 16510-2-6:2023 en pr  
Uređaji na kruta goriva za kućanstva – Dio 2-6: Grijalice prostora, ugradbeni kamini i štednjaci s automatskom dobavom drvenih peleta (EN 16510-2-6:2022)  
Residential solid fuel burning appliances – Part 2-6: Mechanically by wood pellets fed room heaters, inset appliances and cookers (EN 16510-2-6:2022)
- HRN EN ISO 16640:2023 en pr  
Praćenje radioaktivnih plinova u otpadnim vodama iz postrojenja koja proizvode radionuklide koji emitiraju pozitron i radiofarmaceutike (ISO 16640:2021; EN ISO 16640:2022)  
Monitoring radioactive gases in effluents from facilities producing positron emitting radionuclides and radiopharmaceuticals (ISO 16640:2021; EN ISO 16640:2022)
- HRN EN ISO 23062:2023 en pr  
Strojevi za lijevanje – Sigurnosni zahtjevi za strojeve za lijevanje u kalupe, proizvodnju ljevačkih jezgri i prateću opremu (ISO 23062:2022; EN ISO 23062:2022)  
Foundry machinery – Safety requirements for molding and coremaking machinery and associated equipment (ISO 23062:2022; EN ISO 23062:2022)
- HRN EN ISO 23133:2023 en pr  
Sigurnost s obzirom na nuklearnu kritičnost – Obuka o sigurnosti s obzirom na nuklearnu kritičnost za operacije (ISO 23133:2021; EN ISO 23133:2022)  
Nuclear criticality safety – Nuclear criticality safety training for operations (ISO 23133:2021; EN ISO 23133:2022)

## HZN/TU N1, Nemetalni materijali 1

- HRN EN ISO 20501:2023 en pr  
Fina keramika (napredna keramika, napredna tehnička keramika) – Weibullova statistička analiza podataka čvrstoće (ISO 20501:2019; EN ISO 20501:2022)  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Weibull statistics for strength data (ISO 20501:2019; EN ISO 20501:2022)
- HRN EN ISO 20504:2023 en pr  
Fina keramika (napredna keramika, napredna tehnička keramika) – Mehanička svojstva keramičkih kompozita na sobnoj temperaturi – Određivanje tlačnih svojstava (ISO 20504:2022; EN ISO 20504:2022)  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Mechanical properties of ceramic composites at room temperature – Determination of compressive properties (ISO 20504:2022; EN ISO 20504:2022)
- HRN EN ISO 21813:2023 en pr  
Fina keramika (napredna keramika, napredna tehnička keramika) – Metode kemijske analize praha barijevog titanata visoke čistoće (ISO 21813:2019; EN ISO 21813:2022)  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Methods for chemical analysis of high purity barium titanate powders (ISO 21813:2019; EN ISO 21813:2022)
- HRN EN ISO 21814:2023 en pr  
Fina keramika (napredna keramika, napredna tehnička keramika) – Metode kemijske analize praha aluminij nitrida (ISO 21814:2019; EN ISO 21814:2022)  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Methods for chemical analysis of aluminium nitride powders (ISO 21814:2019; EN ISO 21814:2022)
- HRN EN ISO 21821:2023 en pr  
Fina keramika (napredna keramika, napredna tehnička keramika) – Određivanje zgušnjavanja keramičkog praha pri prirodnom sinteriranju (ISO 21821:2019; EN ISO 21821:2022)  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of densification properties of ceramic powders on natural sintering (ISO 21821:2019; EN ISO 21821:2022)

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

- HRN EN ISO 18675:2023 en pr  
Stomatologija – Strojno obradivi keramički blokovi za izradu restauracija (ISO 18675:2022; EN ISO 18675:2022)  
Dentistry – Machinable ceramic blanks (ISO 18675:2022; EN ISO 18675:2022)
- HRN EN ISO 21801-2:2023 en pr  
Pristupačnost za osobe s kognitivnim teškoćama – 2. dio: Izvješćavanje (ISO 21801-2:2022; EN ISO 21801-2:2022)  
Cognitive accessibility – Part 2: Reporting (ISO 21801-2:2022; EN ISO 21801-2:2022)

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

- HRN EN 2235:2023 en pr  
Zrakoplovstvo – Jednožilni i višežilni električni kabeli, zaštićeni i obavijeni – Tehnička specifikacija (EN 2235:2022)  
Aerospace series – Single and multicore electrical cables, screened and jacketed – Technical specification (EN 2235:2022)
- HRN EN 2997-002:2023 en pr  
Zrakoplovstvo – Spojnice, električne, kružne, spojene navojnim prstenom, otporne na vatru ili neotporne na vatru, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – Dio 002: Specifikacije značajki i položaji kontakta (EN 2997-002:2022)  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 002: Specification of performance and contact arrangements (EN 2997-002:2022)



- HRN EN 3364:2023 en pr  
Zrakoplovstvo – Čelik X5CrNiCu15 5 (1.4545) – Pretopljen elektrodom za zavarivanje, omekšan, materijal namijenjen kovanju a ili D ≤ 300 mm (EN 3364:2022)  
Aerospace series – Steel X5CrNiCu15 5 (1.4545) – Consumable electrode remelted, softened – Forging stocks – a or D ≤ 300 mm (EN 3364:2022)
- HRN EN 3375-011:2023 en pr  
Zrakoplovstvo – Električni kabeli za prijenos digitalnih podataka – Dio 011: Jednostruko pleteni – Četverožilni 100 oma – Male težine – Tip KL – Norma za proizvod (EN 3375-011:2022)  
Aerospace series – Cable, electrical for digital data transmission – Part 011: Single braid – Star Quad 100 ohms – Light weight – Type KL – Product standard (EN 3375-011:2022)
- HRN EN 3434:2023 en pr  
Zrakoplovstvo – Matice, šesterokutne, s prorezima/zupčaste, samozatvarajuće, od čelika, prevučene kadmijem, podmazane s MoS2 – Klasifikacija: 900 MPa (pri temperaturi okoline)/ 235 °C (EN 3434:2022)  
Aerospace series – Nuts, hexagon, slotted/castellated, self-locking, in steel, cadmium plated, MoS2 lubricated – Classification: 900 MPa (at ambient temperature)/235 °C (EN 3434:2022)
- HRN EN 3557:2023 en pr  
Zrakoplovstvo – Legura aluminija AL-P6061-T4 – Vučene cijevi za primjenu pod tlakom – 0,6 mm ≤ a ≤ 3 mm (EN 3557:2022)  
Aerospace series – Aluminium alloy AL-P6061-T4 – Drawn tube for pressure applications – 0,6 mm ≤ a ≤ 3 mm (EN 3557:2022)
- HRN EN 3656:2023 en pr  
Zrakoplovstvo – Polikarbonat, samogasiv, niske emisije dima – Značajke (EN 3656:2022)  
Aerospace series – Polycarbonate, self-extinguishing, low smoke emission – Characteristics (EN 3656:2022)
- HRN EN 3675:2023 en pr  
Zrakoplovstvo – Plan uzorkovanja za ispitivanje prihvatljivosti pređe od aramidnih, ugljičnih vlakana i tekstilnih staklenih vlakana (EN 3675:2022)  
Aerospace series – Sampling plan for acceptance testing of aramid, carbon fibre and textile glass filament yarns (EN 3675:2022)
- HRN EN 3762:2023 en pr  
Zrakoplovstvo – Legura otporna na toplinu X6NiCrTiMnMoV26-15 (1.4944) – Omekšana i hladno obrađena – Žica za kovane stezače – D ≤ 15 mm – 1 100 MPa ≤ Rm ≤ 1 300 MPa (EN 3762:2022)  
Aerospace series – Heat-resisting alloy X6NiCrTiMnMoV26-15 (1.4944) – Softened and cold worked – Wire for forged fasteners – D ≤ 15 mm – 1 100 MPa ≤ Rm ≤ 1 300 MPa (EN 3762:2022)
- HRN EN 4374:2023 en pr  
Zrakoplovstvo – Legura otporna na toplinu NI-PH1301 (NiCr19Co18Mo4Ti3Al3) – Tretiran otopinom i precipitatom – Šipke i profili – De ≤ 200 mm (EN 4374:2022)  
Aerospace series – Heat-resisting alloy NI-PH1301 (NiCr19Co18Mo4Ti3Al3) – Solution treated and precipitation treated – Bars and sections – De ≤ 200 mm (EN 4374:2022)
- HRN EN 4627:2023 en pr  
Zrakoplovstvo – Čelik X4CrNiMo16-5-1 (1.4418) – Taljen na zraku – Kaljen i termički obrađen – Otkivci – De ≤ 200 mm – 1 150 MPa ≤ Rm ≤ 1 300 MPa (EN 4627:2022)  
Aerospace series – Steel X4CrNiMo16-5-1 (1.4418) – Air melted – Hardened and tempered – Forgings – De ≤ 200 mm – 1 150 MPa ≤ Rm ≤ 1 300 MPa (EN 4627:2022)
- HRN EN 4628:2023 en pr  
Zrakoplovstvo – Čelik X4CrNiMo16-5-1 (1.4418) – Taljen na zraku – Kaljen i termički obrađen – Šipke – De ≤ 200 mm – 1 150 MPa ≤ Rm ≤ 1 300 MPa (EN 4628:2022)  
Aerospace series – Steel X4CrNiMo16-5-1 (1.4418) – Air melted – Hardened and tempered – Bars – De ≤ 200 mm – 1 150 MPa ≤ Rm ≤ 1 300 MPa (EN 4628:2022)
- HRN EN 4703:2023 en pr  
Zrakoplovstvo – Specifikacija ispitivanja za verifikaciju propusnosti električne izolacije (EN 4703:2022)  
Aerospace series – Test specification for verification of the permeability of electrical insulation (EN 4703:2022)
- HRN EN 4708-201:2023 en pr  
Zrakoplovstvo – Navlake koje se sužavaju prilikom izlaganja toplini, za omotavanje, izolaciju i označavanje – 201. dio: Navlake za označavanje od poliolefina – Raspon radne temperature od -55 °C do 135 °C – Norma za proizvod (EN 4708-201:2022)  
Aerospace series – Sleeves, heat-shrinkable, for binding, insulation and identification – Part 201: Polyolefin identification sleeves – Operating Temperature range -55 °C to 135 °C – Product standard (EN 4708-201:2022)
- HRN EN 4708-203:2023 en pr  
Zrakoplovstvo – Navlake koje se sužavaju prilikom izlaganja toplini, za omotavanje, izolaciju i označavanje – 203. dio: Navlake za označavanje od poliviniliden fluorida (PVDf) – Raspon radne temperature od -55 °C do 225 °C – Norma za proizvod (EN 4708-203:2022)  
Aerospace series – Sleeving, heat-shrinkable, for binding, insulation and identification – Part 203: Polyvinylidene fluoride (PVDf) identification sleeves – Operating Temperature range -55°C to 225°C – Product Standard (EN 4708-203:2022)
- HRN EN 4882:2023 en pr  
Zrakoplovstvo – Čelik X5CrNiCu 17-4 (1.4542) – Taljen na zraku – Obraden otopinom i precipitatom – Limovi i trake – a ≤ 6 mm – Rm ≥ 1 070 MPa (EN 4882:2022)  
Aerospace series – Steel X5CrNiCu 17-4 (1.4542) – Air melted – Solution treated and precipitation treated – Sheets and strips – a ≤ 6 mm – Rm ≥ 1 070 MPa (EN 4882:2022)
- HRN EN 4883:2023 en pr  
Zrakoplovstvo – Čelik X5CrNiCu 17-4 (1.4542) – Taljen na zraku – Obraden otopinom i precipitatom – Ploče – 6 mm ≤ a ≤ 100 mm – Rm ≥ 1 070 MPa (EN 4883:2022)  
Aerospace series – Steel X5CrNiCu 17-4 (1.4542) – Air melted – Solution treated and precipitation treated – Plates – 6 mm ≤ a ≤ 100 mm – Rm ≥ 1 070 MPa (EN 4883:2022)
- HRN EN 4884:2023 en pr  
Zrakoplovstvo – Čelik X3CrNiMoAl (13-8-2) – Topljen vakuumskom indukcijom i pretopljen s topljivom elektrodom – Obraden otopinom i precipitatom – Šipke za strojnu obradu – a ili D ≤ 200 mm – 1 200 MPa ≤ Rm ≤ 1 350 MPa (EN 4884:2022)  
Aerospace series – Steel X3CrNiMoAl (13-8-2) – Vacuum induction melted and consumable electrode remelted – Solution treated and precipitation treated – Bars for machining – a or D ≤ 200 mm – 1 200 MPa ≤ Rm ≤ 1 350 MPa (EN 4884:2022)
- HRN EN 4904:2023 en pr  
Zrakoplovstvo – Čelik 36NiCrMo16 (1.6773) – 1 000 MPa ≤ Rm ≤ 1 200 MPa – Šipke – 100 ≤ D ≤ 250 mm (EN 4904:2022)  
Aerospace series – Steel 36NiCrMo16 (1.6773) – 1 000 MPa ≤ Rm ≤ 1 200 MPa – Bars – 100 ≤ D ≤ 250 mm (EN 4904:2022)
- HRN EN 6069:2023 en pr  
Zrakoplovstvo – Zakovica, 100° skraćene ravne glave, s posebnom tolerancijom – Nizovi u inčima (EN 6069:2022)  
Aerospace series – Rivet, 100° reduced flush head, close tolerance – Inch series (EN 6069:2022)
- HRN EN 6080:2023 en pr  
Zrakoplovstvo – Zakovica, 100° normalne ravne glave, uske tolerancije – Nizovi u inčima (EN 6080:2022)  
Aerospace series – Rivet, 100° normal flush head, close tolerance – Inch series (EN 6080:2022)
- HRN EN 6081:2023 en pr  
Zrakoplovstvo – Zakovica, univerzalne glave, uske tolerancije – Nizovi u inčima (EN 6081:2022)  
Aerospace series – Rivet, universal head, close tolerance – Inch series (EN 6081:2022)

HRN EN 6101:2023 en pr  
Zrakoplovstvo – Zakovica, 100° srednje ravne glave, uske tolerancije – Nizovi u inčima (EN 6101:2022)  
Aerospace series – Rivet, 100° medium flush head, close tolerance – Inch series (EN 6101:2022)

HRN EN 9114:2023 en pr  
Zrakoplovstvo – Sustavi kvalitete – Upute za izravnu otpremu za zrakoplovne tvrtke (EN 9114:2022)  
Aerospace series – Quality systems – Direct Ship – Guidance for Aerospace Companies (EN 9114:2022)

## **HZN/TU U1, Opća elektrotehnika 1**

HRN EN IEC 60404-3:2023 en pr  
Magnetski materijali – 3. dio: Metode mjerenja magnetskih svojstava električne čelične trake i lima pomoću ispitivača pojedinačnih limova (IEC 60404-3:2022; EN IEC 60404-3:2022)  
Magnetic materials – Part 3: Methods of measurement of the magnetic properties of electrical steel strip and sheet by means of a single sheet tester (IEC 60404-3:2022; EN IEC 60404-3:2022)

HRN EN IEC 80000-6:2023 en pr  
Veličine i jedinice – 6. dio: Elektromagnetizam (IEC 80000-6:2022; EN IEC 80000-6:2022)  
Quantities and units – Part 6: Electromagnetism (IEC 80000-6:2022; EN IEC 80000-6:2022)

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

HRN EN IEC 60286-2:2023 en pr  
Pakiranje komponenata za automatsko rukovanje – 2. dio: Pakiranje komponenata s jednostranim izlazima neprekidnim trakama (IEC 60286-2:2022; EN IEC 60286-2:2022)  
Packaging of components for automatic handling – Part 2: Tape packaging of components with unidirectional leads on continuous tapes (IEC 60286-2:2022; EN IEC 60286-2:2022)

HRN EN IEC 60286-3:2023 en pr  
Pakiranje komponenata za automatsko rukovanje – 3. dio: Pakiranje komponenata za površinsku montažu na neprekidnu traku (IEC 60286-3:2022; EN IEC 60286-3:2022)  
Packaging of components for automatic handling – Part 3: Packaging of surface mount components on continuous tapes (IEC 60286-3:2022; EN IEC 60286-3:2022)

HRN EN 60904-5:2012/A1:2023 en pr  
Fotonaponski uređaji – 5. dio: Određivanje ekvivalentne temperature ćelije (ECT) fotonaponskih (PV) uređaja metodom napona otvorenog kruga (IEC 60904-5:2011/am1:2022; EN 60904-5:2011/A1:2022)  
Photovoltaic devices – Part 5: Determination of the equivalent cell temperature (ECT) of photovoltaic (PV) devices by the open-circuit voltage method (IEC 60904-5:2011/am1:2022; EN 60904-5:2011/A1:2022)

HRN EN IEC 62037-8:2023 en pr  
Pasivni radiofrekvencijski (RF) i mikrovalni uređaji, mjerenje razine intermodulacije – 8. dio: Mjerenje pasivne intermodulacije koju stvaraju objekti izloženi RF zračenju (IEC 62037-8:2022; EN IEC 62037-8:2022)  
Passive RF and microwave devices, intermodulation level measurement – Part 8: Measurement of passive intermodulation generated by objects exposed to RF radiation (IEC 62037-8:2022; EN IEC 62037-8:2022)

HRN EN IEC 62228-6:2023 en pr  
Integrirani krugovi – Procjena elektromagnetske kompatibilnosti (EMC) primopredajnika – 6. dio: Primopredajnici PSI50 (IEC 62228-6:2022; EN IEC 62228-6:2022)  
Integrated circuit – EMC Evaluation of transceivers – Part 6: PS15 transceivers (IEC 62228-6:2022; EN IEC 62228-6:2022)

HRN EN IEC 63203-402-1:2023 en pr  
Nosivi elektronički uređaji i tehnologije – Dio 402-1: Mjerenje performansi nosivih uređaja za tjelesnu aktivnost – Metode ispitivanja za senzore kretanja u obliku rukavica za mjerenje pokreta prstiju (IEC 63203-402-1:2022;

EN IEC 63203-402-1:2022)  
Wearable electronic devices and technologies – Part 402-1: Performance measurement of fitness wearables – Test methods of glove-type motion sensors for measuring finger movements (IEC 63203-402-1:2022; EN IEC 63203-402-1:2022)

HRN EN IEC 63203-801-2:2023 en pr  
Nosivi elektronički uređaji i tehnologije – Dio 801-2: Pametna mreža područja tijela (Smart Body Area Network, SmartBAN) – Kontrola pristupa medijima (MAC) niske složenosti za SmartBAN (IEC 63203-801-2:2022; EN IEC 63203-801-2:2022)  
Wearable electronic devices and technologies – Part 801-2: Smart body area network (SmartBAN) – Low complexity medium access control (MAC) for SmartBAN (IEC 63203-801-2:2022; EN IEC 63203-801-2:2022)

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

HRN EN IEC 63115-1:2020/A1:2023 en pr  
Sekundarni članci i baterije koje sadrže alkalne ili ostale nekisele elektrolite – Zapečaćeni nikal-metalni hidridni punjivi članci i baterije za uporabu u industrijskoj primjeni – 1. dio: Značajke (IEC 63115-1:2020/am1:2022; EN IEC 63115-1:2020/A1:2022)  
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Sealed nickel-metal hydride cells and batteries for use in industrial applications – Part 1: Performance (IEC 63115-1:2020/am1:2022; EN IEC 63115-1:2020/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 22, *Cestovna vozila*

prEN ISO 8092-2 en

Road vehicles – Connections for on-board electrical wiring harnesses – Part 2: Definitions, test methods and general performance requirements (ISO/DIS 8092-2:2022)  
Cestovna vozila – Spojevi električnog ožičenja u vozilu – 2. dio: Definicije, metode ispitivanja i opći zahtjevi (ISO/DIS 8092-2:2022)

prEN 17921 en

Natural gas vehicles – Fuelling and operation – Natural gas fuelling stations – LNG unloading connector  
Vozila na prirodni plin – Punjenje i rad – Stanice za punjenje prirodnim plinom – Priključak za istakanje ukapljenog prirodnog plina (UPP)

prEN 17922 en

Natural gas vehicles – Fuelling and operation – Natural gas fuelling stations – LNG unloading stop system  
Vozila na prirodni plin – Punjenje i rad – Stanice za punjenje prirodnim plinom – Sustav za zaustavljanje istakanja ukapljenog prirodnog plina (UPP)

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

prEN ISO 16122-1 en

Agricultural and forestry machinery – Inspection of sprayers in use – Part 1: General (ISO/DIS 16122-1:2022)  
Poljoprivredna i šumarska mehanizacija – Inspekcija prskalica u upotrebi – 1. dio: Općenito (ISO/DIS 16122-1:2022)

prEN ISO 16122-2 en

Agricultural and forestry machinery – Inspection of sprayers in use – Part 2: Horizontal boom sprayers (ISO/DIS 16122-2:2022)  
Poljoprivredna i šumarska mehanizacija – Inspekcija prskalica u upotrebi – 2. dio: Prskalice s horizontalnom armaturom (ISO/DIS 16122-2:2022)

prEN ISO 16122-3 en

Agricultural and forestry machinery – Inspection of sprayers in use – Part 3: Sprayers for bush and tree crops (ISO/DIS 16122-3:2022)  
Poljoprivredna i šumarska mehanizacija – Inspekcija prskalica u upotrebi – 3. dio: Prskalice za grmlje i drveće (ISO/DIS 16122-3:2022)

prEN ISO 16122-4 en

Agricultural and forestry machines – Inspection of sprayers in use – Part 4: Fixed and semi-mobile sprayers (ISO/DIS 16122-4:2022)  
Poljoprivredni i šumarski strojevi – Inspekcija prskalica u upotrebi – 4. dio: Nepomične i polupokretne prskalice (ISO/DIS 16122-4:2022)

prEN ISO 18497-3 en

Agricultural machinery and tractors – Safety of partially automated, semi-autonomous and autonomous machinery – Part 3: Autonomous operating zones (ISO/DIS 18497-3:2022)  
Poljoprivredna mehanizacija i traktori – Sigurnost djelomično automatiziranih, poluautonomnih i autonomnih strojeva – 3. dio: Autonomne operativne zone (ISO/DIS 18497-3:2022)

prEN ISO 18497-4 en

Agricultural machinery and tractors – Safety of partially automated, semi-autonomous and autonomous machinery – Part 4: Verification methods and validation principles (ISO/DIS 18497 4:2022)  
Poljoprivredna mehanizacija i traktori – Sigurnost djelomično automatiziranih, poluautonomnih i autonomnih strojeva – 4. dio: Metode verifikacije i principi validacije (ISO/DIS 18497 4:2022)

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

prEN ISO 12156-1 en

Diesel fuel – Assessment of lubricity using the high-frequency reciprocating rig (HFRR) – Part 1: Test method (ISO/DIS 12156-1:2022)  
Dizelsko gorivo – Ocjenjivanje mazivosti uporabom vibracijskog uređaja visoke frekvencije (HFRR) – 1. dio: Ispitna metoda (ISO/DIS 12156-1:2022)

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

prEN ISO 5667-3 en

Water quality – Sampling – Part 3: Preservation and handling of water samples (ISO/DIS 5667-3:2023)  
Kvaliteta vode – Uzorkovanje – 3. dio: Čuvanje i rukovanje uzorcima vode (ISO/DIS 5667-3:2023)

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

EN ISO 25745-2:2015/prA1 en

Energy performance of lifts, escalators and moving walks – Part 2: Energy calculation and classification for lifts (elevators) (ISO 25745-2:2015/DAMd 1:2022)  
Energetske značajke dizala, pokretnih stuba i pokretnih traka – 2. dio: Proračun energije i razredba dizala (ISO 25745-2:2015/DAMd 1:2022)

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

prEN ISO 19144-2 en

Geographic information – Classification systems – Part 2: Land Cover Meta Language (LCML) (ISO/DIS 19144-2:2022)

prEN ISO 19152-1 en

Geographic information – Land Administration Domain Model (LADM) – Part 1: Fundamentals (ISO/DIS 19152-1)  
Geoinformacije – Model područja upravljanja zemljištem (ISO/DIS 19152-1)

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

prEN ISO 18104 en

Health informatics – Categorial structures for representation of nursing practice in terminological systems (ISO/DIS 18104:2022)

### HZN/TO 218, *Drvo*

prEN 15119-2 en

Durability of wood and wood-based products – Determination of emissions from preservative treated wood to the environment – Part 2: Wooden commodities exposed in Use Class 4 or 5 (in contact with the ground, fresh water or sea water) – Laboratory method  
Trajnost drva i proizvoda na osnovi drva – Određivanje emisije zaštitnog sredstva iz tretiranog drva u okoliš – 2. dio: Drvena roba izložena u razredu 4 ili 5 (u dodiru sa zemljom, slatkom ili slanom vodom) – Laboratorijska metoda

### HZN/TO 221, *Geosintetici*

prEN ISO 9862 en

Geosynthetics – Sampling and preparation of test specimens (ISO/DIS 9862:2022)  
Geosintetici – Uzorkovanje i priprema ispitnih uzoraka (ISO/DIS 9862:2022)

## **HZN/TO 238, Čvrsta biogoriva**

prEN ISO 17827-1 en

Solid biofuels – Determination of particle size distribution for uncompressed fuels – Part 1: Oscillating screen method using sieves with apertures of 3,15 mm and above (ISO/DIS 17827-1:2022)

Čvrsta biogoriva – Određivanje granulometrijskoga sastava nekomprimiranog goriva – 1. dio: Metoda oscilacijskog prosijavanja upotrebom sita promjera 3,15 mm i većeg (ISO/DIS 17827-1:2022)

prEN ISO 17827-2 en

Solid biofuels – Determination of particle size distribution for uncompressed fuels – Part 2: Vibrating screen method using sieves with aperture of 3,15 mm and below (ISO/DIS 17827-2:2022)

Čvrsta biogoriva – Određivanje granulometrijskog sastava nekomprimiranog goriva – 2. dio: Metoda vibracijskog prosijavanja upotrebom sita promjera 3,15 mm i manjeg (ISO/DIS 17827-2:2022)

## **HZN/TO 502, Plinski uređaji**

prEN 12309-6 en

Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW – Part 6: Calculation of seasonal performances

Plinski sorpcijski uređaji za grijanje i/ili hlađenje s nazivnim toplinskim opterećenjem do 70 kW – 6. dio: Proračun sezonskih značajki

prEN 15502-2-2 en

Gas-fired central heating boilers – Part 2-2: Specific standard for type B1 appliances

Plinski kotlovi za centralno grijanje – Dio 2-2: Posebna norma za tip B1 uređaja

prEN 16905-1 en

Gas-fired endothermic engine driven heat pumps – Part 1: Terms and definitions

Dizalice topline s plinskim endotermnim motorom – 1. dio: Nazivi i definicije

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

prEN ISO 4491-1 en

Metallic powders – Determination of oxygen content by reduction methods – Part 1: General guidelines (ISO/FDIS 4491-1:2022)

Metalni prah – Određivanje udjela kisika redukcijskom metodom – 1. dio: Opće smjernice (ISO/FDIS 4491-1:2022)

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

prEN ISO 3882 en

Metallic and other inorganic coatings – Review of methods of measurement of thickness (ISO/DIS 3882:2022)

Metalne i druge anorganske prevlake – Pregled metoda za mjerenje debljine (ISO/DIS 3882:2022)

prEN ISO 15730 en

Metallic and other inorganic coatings – Electropolishing as a means of smoothing and passivating stainless steel (ISO/FDIS 15730:2022)

Metalne i druge anorganske prevlake – Elektropoliranje u svrhu zaglađivanja i pasiviziranja nehrđajućeg čelika (ISO/FDIS 15730:2022)

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

EN 334:2019/prA1 en

Gas pressure regulators for inlet pressure up to 10 MPa (100 bar)

Regulatori tlaka za ulazni tlak plina do 100 bara

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

ISO 14167:2018 en

Gas analysis – General quality aspects and metrological traceability of calibration gas mixtures

Analiza plina – Opći aspekti kvalitete i mjeriteljska sljedivost mješavina plinova za umjeravanje

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

prEN 12299 en

Railway applications – Ride comfort for passengers – Measurement and evaluation

Željeznički sustav – Udobnost vožnje putnika – Mjerenje i vrednovanje

prEN 17936 en

Railway applications – Acoustics – Measurement of source terms for environmental noise calculations

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

prEN ISO 60 en

Plastics – Determination of apparent density of material that can be poured from a specified funnel (ISO/DIS 60:2022)

Plastika – Određivanje prividne gustoće materijala koji ne može istjecati iz označenih lijevaka (ISO/DIS 60:2022)

prEN ISO 61 en

Plastics – Determination of apparent density of moulding material that cannot be poured from a specified funnel (ISO/DIS 61:2022)

Plastika – Određivanje prividne gustoće materijala za prešanje koji ne može istjecati iz označenih lijevaka (ISO/DIS 61:2022)

prEN ISO 3671 en

Plastics – Aminoplastic moulding materials – Determination of volatile matter (ISO/DIS 3671:2022)

Plastika – Aminoplastični materijali za prešanje – Određivanje hlapljivih tvari (ISO/DIS 3671:2022)

prEN ISO 13927 en

Plastics – Simple heat release test using a conical radiant heater and a thermopile detector (ISO/DIS 13927:2022)

Plastika – Jednostavno ispitivanja oslobađanja topline stožastim radijacijskim grijalom i detektorom s termoelementom (ISO/DIS 13927:2022)

prEN ISO 20200 en

Plastics – Determination of the degree of disintegration of plastic materials under composting conditions in a laboratory-scale test (ISO/DIS 20200:2022)

Plastika – Određivanje stupnja raspadanja plastičnih materijala simulacijom kompostnih uvjeta u laboratorijskome mjerilu (ISO/DIS 20200:2022)

## **HZN/TO 553, Predgotovljeni proizvodi**

prEN 14528 en

Bidets – Functional requirements and test methods

Bidei – Funkcionalni zahtjevi i metode ispitivanja

## **HZN/TO 557, Zaštitna odjeća**

EN 14325:2018/prA1 en

Protective clothing against chemicals – Test methods and performance classification of chemical protective clothing materials, seams, joins and assemblages

Odjeća za zaštitu od kemikalija – Metode ispitivanja i klasifikacija svojstava za materijale, šavove, rastavljive i trajne spojeve odjeće za zaštitu od kemikalija

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

EN 13445-4:2021/FprA1 en

Unfired pressure vessels – Part 4: Fabrication

Neložene posude pod tlakom – 4. dio: Proizvodnja

## **HZN/TO 562, *Alatni strojevi i alati***

prEN ISO 19085-12 en  
Woodworking machines – Safety – Part 12: Tenoning/profiling machines (ISO/DIS 19085-12:2022)  
Strojevi za obradu drva – Sigurnost – 12. dio: Strojevi za izradu rukavaca i profiliranje (ISO/DIS 19085-12:2022)

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

prEN ISO 11816-2 en  
Milk and milk products – Determination of alkaline phosphatase activity – Part 2: Fluorimetric method for cheese (ISO/DIS 11816-2:2022)  
Mlijeko i mliječni proizvodi – Određivanje aktivnosti alkalne fosfataze – 2. dio: Fluorometrijska metoda za sir (ISO/DIS 11816-2:2022)

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

EN ISO 6888-1:2021/prA1 en  
Microbiology of the food chain – Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) – Part 1: Method using Baird-Parker agar medium (ISO 6888-1:2021/DAMd 1:2022)  
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/DAMd 1:2022)

EN ISO 6888-2:2021/prA1 en  
Microbiology of the food chain – Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) – Part 2: Method using rabbit plasma fibrinogen agar medium – Amendment 1: Corrections (ISO 6888-2:2021/DAMd 1:2022)  
Mikrobiologija u lancu hrane – Horizontalna metoda određivanja broja koagulaza-pozitivnih stafilocoka (*Staphylococcus aureus* i ostale vrste) – 2. dio: Postupak primjene agara s fibrinogenom plazme kunića – Amandman 1: Ispravci (ISO 6888-2:2021/DAMd 1:2022)

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

prEN 12196 en  
Gymnastic equipment – Horses and bucks – Functional and safety requirements, test methods  
Gimnastička oprema – Konj i kozlić – Funkcionalni i sigurnosni zahtjevi, metode ispitivanja

## **HZN/TO 578, *Elektronička javna nabava***

prEN 17016-1 en  
Electronic Public Procurement – Ordering – Part 1: Choreographies

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

ISO 28000:2022 en  
Security and resilience – Security management systems – Requirements  
Sigurnost i otpornost – Sustavi upravljanja sigurnošću – Zahtjevi

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

prEN IEC 62056-8-12:2022 en  
Electricity metering data exchange – The DLMS/COSEM suite – Part 8-12: Communication profile for Low Power Wide Area Networks (LPWAN) (IEC 62056-8-12 ED1)

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

prEN IEC 60146-1-1:2022 en  
Semiconductor converters – General requirements and line commutated converters – Part 1-1: Specification of basic requirements (IEC 60146-1-1 ED5)  
Poluvodički pretvarači – Opći zahtjevi i mrežom komutirani pretvarači – Dio 1-1: Specifikacije temeljnih zahtjeva (IEC 60146-1-1 ED5)

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

prEN IEC 61084-1:2022 en  
Cable trunking systems and cable ducting systems for electrical installations – Part 1: General requirements (IEC 61084-1:2017)  
Sustavi za nošenje i vođenje kabela za električne instalacije – 1. dio: Opći zahtjevi (IEC 61084-1:2017)

prEN IEC 61084-1:2022/prAA en  
Cable trunking systems and cable ducting systems for electrical installations – Part 1: General requirements  
Sustavi za nošenje i vođenje kabela za električne instalacije – 1. dio: Opći zahtjevi

prEN IEC 61084-2-1:2022 en  
Cable trunking systems and cable ducting systems for electrical installations – Part 2-1: Particular requirements – Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings (IEC 61084-2-1:2017)  
Sustavi za nošenje i vođenje kabela za električne instalacije – Dio 2-1: Posebni zahtjevi – Sustavi za nošenje i vođenje kabela namijenjeni ugradbi na zidove i stropove (IEC 61084-2-1:2017)

prEN IEC 61084-2-1:2022/prAA en  
Cable trunking systems and cable ducting systems for electrical installations – Part 2-1: Particular requirements – Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings  
Sustavi za nošenje i vođenje kabela za električne instalacije – Dio 2-1: Posebni zahtjevi – Sustavi za nošenje i vođenje kabela namijenjeni ugradbi na zidove i stropove

prEN IEC 61084-2-2:2022 en  
Cable trunking systems and cable ducting systems for electrical installations – Part 2-2: Particular requirements – Cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor (IEC 61084-2-2:2017)  
Sustavi za nošenje i vođenje kabela za električne instalacije – Dio 2-2: Posebni zahtjevi za sustave za nošenje i vođenje kabela namijenjene za ugradnju ispod poda, u razini poda ili na pod (IEC 61084-2-2:2017)

prEN IEC 61084-2-2:2022/prAA en  
Cable trunking systems and cable ducting systems for electrical installations – Part 2-2: Particular requirements – Part 2-2: Particular requirements – Cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor  
Sustavi za nošenje i vođenje kabela za električne instalacije – Dio 2-2: Posebni zahtjevi za sustave za nošenje i vođenje kabela namijenjene za ugradnju ispod poda, u razini poda ili na pod

prEN IEC 61084-2-3:2022 en  
Cable trunking systems and cable ducting systems for electrical installations – Part 2-3: Particular requirements – Slotted cable trunking systems intended for installation in cabinets (IEC 61084-2-3:2017)  
Sustavi za nošenje i vođenje kabela za električne instalacije – Dio 2-3: Posebni zahtjevi za češljaste sustave za nošenje kabela, namijenjene za instaliranje u razvodne ormariće (IEC 61084-2-3:2017)

prEN IEC 61084-2-3:2022/prAA en

Cable trunking systems and cable ducting systems for electrical installations – Part 2-3: Particular requirements – Slotted cable trunking systems intended for installation in cabinets

Sustavi za nošenje i vođenje kabela za električne instalacije – Dio 2-3: Posebni zahtjevi za češljaste sustave za nošenje kabela, namijenjene za instaliranje u razvodne ormariće

prEN IEC 61084-2-4:2022 en

Cable trunking systems and cable ducting systems for electrical installations – Part 2-4: Particular requirements – Service poles and service posts (IEC 61084-2-4:2017)

Sustavi za nošenje i vođenje kabela za električne instalacije – Dio 2-4: Posebni zahtjevi za stupiće s elektroinstalacijskim priborom (IEC 61084-2-4:2017)

prEN IEC 61084-2-4:2022/prAA en

Cable trunking systems and cable ducting systems for electrical installations – Part 2-4: Particular requirements – Service poles and service posts

Sustavi za nošenje i vođenje kabela za električne instalacije – Dio 2-4: Posebni zahtjevi za stupiće s elektroinstalacijskim priborom

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

prEN 14986 en

Design of fans working in potentially explosive atmospheres  
Konstrukcija ventilatora za potencijalno eksplozivne atmosfere

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

prEN IEC 62386-306:2022 en

Digital addressable lighting interface – Part 306: Particular requirements – Input devices – General purpose sensor (IEC 62386-306 ED1)

Digitalno upravljanje rasvjetom – 306. dio: Posebni zahtjevi – Ulazne naprave – Višenamjenski senzor (IEC 62386-306 ED1)

## **HZN/TO E37, Odvodnici prenapona**

prEN IEC 61643-332:2022 en

Components for low-voltage surge protection – Part 332: Selection and application principles for metal oxide varistors (MOV) (IEC 61643-332 ED1)

Komponente za niskonaponsku prenaponsku zaštitu – 332. dio: Odabir i primjena načela za metaloksidne varistore (MOV) (IEC 61643-332 ED1)

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

FprHD 60364-7-701:2019/prAA en

Low-voltage electrical installations – Part 7-701: Requirements for special installations or locations – Locations containing a bath or shower

Niskonaponske električne instalacije – Dio 7-701: Zahtjevi za posebne instalacije ili prostore – Prostor s kadom ili tušem

## **HZN/TO E88, Vjetroagregati**

prEN IEC 61400-3-2:2022 en

Wind energy generation systems – Part 3-2: Design requirements for floating offshore wind turbines (IEC 61400-3-2 ED1)

Sustavi za proizvodnju energije iz vjetra – Dio 3-2: Izvedbeni zahtjevi za pučinske plutajuće vjetroagregate (IEC 61400-3-2 ED1)

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

prEN ISO 20567-2 en

Paints and varnishes – Determination of stone-chip resistance of coatings – Part 2: Single-impact test with a guided impact body (ISO/DIS 20567-2:2022)

Boje i lakovi – Određivanje otpornosti premaza na udare kamenim krhotinama – 2. dio: Ispitivanje jednim udarcem s vođenim udarnim tijelom (ISO/DIS 20567-2:2022)

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

prEN ISO 2614 en

Analysis of natural gas – Biomethane – Determination of terpenes' content by micro gas chromatography (ISO/DIS 2614:2022)

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

prEN 3155-003 en

Aerospace series – Electrical contacts used in elements of connection – Part 003: Contacts, electrical, female, type A, crimp, class S – Product standard

Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 003: Kontakti, električni, ženski, tip A, za krimpiranje, klasa S – Norma za proizvod

prEN 3155-008 en

Aerospace series – Electrical contacts used in elements of connection – Part 008: Contacts, electrical, male, type A, crimp, class S – Product standard

Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 008: Kontakti, električni, muški, tip A, za krimpiranje, razreda S – Norma za proizvod

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

prEN 50090-6-3 en

Home and Building Electronic Systems (HBES) – Part 6-3: 3rd Party HBES IoT API

prEN IEC 60393-4:2022 en

Potentiometers for use in electronic equipment – Part 4: Sectional specification: Single-turn rotary power potentiometers – Methods and guidance (IEC 60393-4 ED3)

prEN IEC 60938-2-1:2022 en

Fixed inductors for electromagnetic interference suppression – Part 2-1: Blank detail specification – Inductors for which safety tests are required – Assessment level D (IEC 60938-2-1 ED2)

prEN IEC 61169-10:2023 en

Radio-frequency connectors. Part 10: R.F. coaxial connectors with inner diameter of outer conductor 3 mm (0.12 in) with snap-on coupling – Characteristic impedance 50 ohms (Type SMB) (IEC 61169-10 ED1)

EN IEC 62228-5:2021/prA1:2022 en

Amendment 1 – Integrated circuits – EMC evaluation of transceivers – Part 5: Ethernet transceivers (IEC 62228-5/am1 ED1)

Amandman 1 – Integrirani krugovi – Procjena elektromagnetske kompatibilnosti (EMC) primopredajnika – 5. dio: Ethernet primopredajnici (IEC 62228-5/am1 ED1)

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

prEN IEC 61558-2-23:2022 en

Safety of transformers, reactors, power supply units and combinations thereof – Part 2-23: Particular requirements and tests for transformers and power supply units for construction sites (IEC 61558-2-23 ED3)

Sigurnost transformatora, prigušnica, jedinica za napajanje i kombinacija od toga – Dio 2-23: Posebni zahtjevi i ispitivanja za transformatore i jedinice za napajanje za gradilišta (IEC 61558-2-23 ED3)

prEN IEC 62282-6-101:2022 en

Fuel cell technologies – Part 6-101: Micro fuel cell power systems – Safety – General requirements (IEC 62282-6-101 ED1)

Tehnologija gorivih članaka – Dio 6-101: Energetski sustavi s gorivim mikročlancima – Sigurnost – Opći zahtjevi (IEC 62282-6-101 ED1)

prEN IEC 62282-6-106:2022 en

Fuel cell technologies – Part 6-106: Micro fuel cell power systems – Safety – Indirect Class 8 (corrosive) compounds (IEC 62282-6-106 ED1)

Tehnologija gorivih članaka – Dio 6-106: Energetski sustavi s gorivim mikročlancima – Sigurnost – Indirektne smjese razreda 8 (korozivne) (IEC 62282-6-106 ED1)

prEN IEC 62282-6-107:2022 en

Fuel cell technologies – Part 6-107: Micro fuel cell power systems – Safety – Indirect water-reactive (Division 4.3) compounds (IEC 62282-6-107 ED1)  
Tehnologija gorivih članaka – Dio 6-107: Energetski sustavi s gorivim mikročlancima – Sigurnost – Indirektne smjese koje reagiraju s vodom (Podjela 4.3) (IEC 62282-6-107 ED1)

EN IEC 62512:2020/prAB en

Electric clothes washer-dryers for household use – Methods of measuring the performance  
Električne perilice-sušilice rublja za kućnu uporabu – Metode za mjerenje radnih značajka

EN 62841-4-1:2020/prA1:2022 en

Amendment 1 – Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-1: Particular requirements for chain saws (IEC 62841-4-1/am1 ED1)  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 4-1: Posebni zahtjevi za lančane pile (IEC 62841-4-1/am1 ED1)

EN 62841-4-1:2020/prAB en

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-1: Particular requirements for chain saws  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 4-1: Posebni zahtjevi za lančane pile

## 1.4 Povučene hrvatske norme

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

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

### HZN/TO 8, *Brodogradnja*

HRN EN ISO 9094:2017 en

Mala plovila – Protupožarna zaštita (ISO 9094:2015; EN ISO 9094:2017)  
Small craft – Fire protection (ISO 9094:2015; EN ISO 9094:2017)  
- zamijenjena s: HRN EN ISO 9094:2023

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

HRN EN ISO 3679:2015 en

Određivanje paljenja i točke paljenja – Metoda brze ravnoteže u zatvorenoj posudi (ISO 3679:2015; EN ISO 3679:2015)  
Determination of flash no-flash and flash point – Rapid equilibrium closed cup method (ISO 3679:2015; EN ISO 3679:2015)  
- zamijenjena s: HRN EN ISO 3679:2023

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

HRN EN ISO 9455-6:2001 en

Talila za meko lemljenje – Metode ispitivanja – 6. dio: Određivanje i otkrivanje sadržaja halida (isključujući fluoride) (ISO 9455-6:1995; EN ISO 9455-6:1997)  
Soft soldering fluxes – Test methods – Part 6: Determination and detection of halide (excluding fluoride) content (ISO 9455-6:1995; EN ISO 9455-6:1997)  
- zamijenjena s: HRN EN ISO 9455-6:2023

HRN EN 29455-1:2007 en

Talila za meko lemljenje – Ispitne metode – 1. dio: Određivanje nehlapivih tvari, gravimetrijska metoda (ISO 9455-1:1990; EN 29455-1:1993)  
Soft soldering fluxes – Test methods – Part 1: Determination of non-volatile matter, gravimetric method (ISO 9455-1:1990; EN 29455-1:1993)  
- zamijenjena s: HRN EN ISO 9455-1:2023

### HZN/TO 86, *Uređaji za hlađenje, klimatizaciju i dizalice topline*

HRN EN 15218:2013 en

Klimatizacijski uređaji i rashladnici kapljevine s kondenzatorom hlađenim ishlapljivanjem i kompresorima na električni pogon namijenjeni za hlađenje prostora – Nazivi, definicije, uvjeti ispitivanja, metode ispitivanja i zahtjevi (EN 15218:2013)  
Air conditioners and liquid chilling packages with evaporatively cooled condenser and with electrically driven compressors for space cooling – Terms, definitions, test conditions, test methods and requirements (EN 15218:2013)  
- zamijenjena s: HRN EN 15218:2023

HRN EN 16147:2017 en

Dizalice topline s kompresorima na električni pogon – Ispitivanje, ocjenjivanje značajka i zahtjevi za označavanje uređaja za pripremu potrošne tople vode (EN 16147:2017)  
Heat pumps with electrically driven compressors – Testing, performance rating and requirements for marking of domestic hot water units (EN 16147:2017)  
- zamijenjena s: HRN EN 16147:2023

HRN EN 16147:2017/Ispr.1:2017 en

Dizalice topline s kompresorima na električni pogon – Ispitivanje, ocjenjivanje značajka i zahtjevi za označavanje uređaja za pripremu potrošne tople vode (EN 16147:2017/AC:2017)  
Heat pumps with electrically driven compressors – Testing, performance rating and requirements for marking of domestic hot water units (EN 16147:2017/AC:2017)  
- zamijenjena s: HRN EN 16147:2023

## **HZN/TO 92, Zaštita od požara**

HRN EN 13501-6:2019 en

Razredba građevnih proizvoda i građevnih elemenata prema ponašanju u požaru – 6. dio: Razredba prema rezultatima ispitivanja reakcije na požar energetskih, upravljačkih i komunikacijskih kabela (EN 13501-6:2018)  
Fire classification of construction products and building elements – Part 6: Classification using data from reaction to fire tests on power, control and communication cables (EN 13501-6:2018)  
- zamijenjena s: HRN EN 13501-6:2023

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

HRN CR 13903:2004 en

Opće upute za opremu koja se upotrebljava pri dišnoj terapiji dušičnim oksidom (CR 13903:2000)  
General guidance on the equipment used for inhaled nitric oxide therapy (CR 13903:2000)  
- bez zamjene

HRN EN ISO 15002:2010/A1:2019 en

Mjerni uređaji protoka koji se spajaju na priključnu jedinicu medicinskoga plinovodnog sustava (ISO 15002:2008/Amd 1:2018; EN ISO 15002:2008/A1:2019)  
Flow-metering devices for connection to terminal units of medical gas pipeline systems (ISO 15002:2008/Amd 1:2018; EN ISO 15002:2008/A1:2019)  
- bez zamjene

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

HRN EN 1455-1:2003 en

Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niska i visoka temperatura) unutar građevinskih konstrukcija – Akrlonitril/butadien/stiren (ABS) – 1. dio: Zahtjevi za cijevi, spojnice i sustav (EN 1455-1:1999)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Acrylonitrile-butadiene-styrene (ABS) – Part 1: Requirements for pipes, fittings and the system (EN 1455-1:1999)  
- zamijenjena s: HRN EN 1455-1:2023

HRN EN 1566-1:2003 en

Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Klorirani poli(vinil-klorid) (PVC-C) – 1. dio: Specifikacije za cijevi, spojnice i sustave (EN 1566-1:1998)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Chlorinated poly(vinyl chloride) (PVC-C) – Part 1: Specifications for pipes, fittings and the systems (EN 1566-1:1998)  
- zamijenjena s: HRN EN 1566-1:2023

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

HRN EN 14884:2008 en

Kakvoća zraka – Emisije iz stacionarnih izvora – Određivanje ukupne žive: automatski mjerni sustavi (EN 14884:2005)  
Air quality – Stationary source emissions – Determination of total mercury: automated measuring systems (EN 14884:2005)  
- zamijenjena s: HRN EN 14884:2023

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

HRN ISO 7704:1999 hr

Kakvoća vode – Procjena membranskih filtara koji se upotrebljavaju u mikrobiološkim analizama (ISO 7704:1985)  
Water quality – Evaluation of membrane filters used for microbiological analyses (ISO 7704:1985)  
- zamijenjena s HRN EN ISO 7704:2023

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

HRN ISO 18738-1:2014 en

Mjerenje kvalitete vožnje – 1. dio: Dizala (ISO 18738-1:2012)  
Measurement of ride quality – Part 1: Lifts (elevators) (ISO 18738-1:2012)  
- zamijenjena s: HRN ISO 8100-34:2023

HRN ISO 18738-2:2014 en

Mjerenje kvalitete vožnje – 2. dio: Pokretne stube i pokretne trake (ISO 18738-2:2012)  
Measurement of ride quality – Part 2: Escalators and moving walks (ISO 18738-2:2012)  
- zamijenjena s: HRN ISO 8100-9:2023

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

HRI ISO/TR 14047:2012 en

Upravljanje okolišem – Procjena utjecaja životnog ciklusa – Primjeri primjene ISO 14042 (ISO/TR 14047:2003)  
Environmental management – Life cycle impact assessment – Examples of application of ISO 14042 (ISO/TR 14047:2003)  
- zamijenjena s: HRI ISO/TR 14047:2023

HRI ISO/TR 14049:2012 en

Upravljanje okolišem – Procjena životnog ciklusa – Primjeri primjene ISO 14041 prema cilju i opsegu definicije registra (ISO/TR 14049:2000)  
Environmental management – Life cycle assessment – Examples of application of ISO 14041 to goal and scope definition and inventory analysis (ISO/TR 14049:2000)  
- zamijenjena s: HRI ISO/TR 14049:2023

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

HRN EN ISO 11073-10404:2012 en

Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 10404. dio: Specijalni uređaji – Pulsni oksimetar (ISO/IEEE 11073-10404:2010; EN ISO 11073-10404:2011)  
Health informatics – Personal health device communication – Part 10404: Device specialization – Pulse oximeter (ISO/IEEE 11073-10404:2010; EN ISO 11073-10404:2011)  
- zamijenjena s: HRN EN ISO/IEEE 11073-10404:2023

HRN EN ISO 11073-10407:2012 en

Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 10407. dio: Specijalni uređaji – Uređaj za praćenje krvnoga tlaka (ISO/IEEE 11073-10407:2010; EN ISO 11073-10407:2011)  
Health informatics – Personal health device communication – Part 10407: Device specialization – Blood pressure monitor (ISO/IEEE 11073-10407:2010; EN ISO 11073-10407:2011)  
- zamijenjena s: HRN EN ISO/IEEE 11073-10407:2023

HRN EN ISO 11073-10408:2012 en

Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 10408. dio: Specijalni uređaji – Toplomjer (ISO/IEEE 11073-10408:2010; EN ISO 11073-10408:2011)  
Health informatics – Personal health device communication – Part 10408: Device specialization – Thermometer (ISO/IEEE 11073-10408:2010; EN ISO 11073-10408:2011)  
- zamijenjena s: HRN EN ISO/IEEE 11073-10408:2023

HRN EN ISO 11073-10415:2012 en

Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 10415. dio: Specijalni uređaji – Vaga (ISO/IEEE 11073-10415:2010; EN ISO 11073-10415:2011)  
Health informatics – Personal health device communication – Part 10415: Device specialization – Weighing scale (ISO/IEEE 11073-10415:2010; EN ISO 11073-10415:2011)  
- zamijenjena s: HRN EN ISO/IEEE 11073-10415:2023

HRN EN ISO 11073-10420:2014 en

Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 10420. dio: Namjena uređaja – Analizator tjelesnog sastava (ISO/IEEE 11073-10420:2012; EN ISO 11073-10420:2012)  
Health informatics – Personal health device communication – Part 10420: Device specialization – Body composition analyzer (ISO/IEEE 11073-10420:2012; EN ISO 11073-10420:2012)  
- zamijenjena s: HRN EN ISO/IEEE 11073-10420:2023

HRN EN ISO 11073-20601:2016 en

Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 20601. dio: Profil aplikacije – Optimizirani protokol izmjene podataka (ISO/IEEE 11073-20601:2016; EN ISO 11073-20601:2016)  
Health informatics – Personal health device communication – Part 20601: Application profile – Optimized exchange protocol (ISO/IEEE 11073-20601:2016; EN ISO 11073-20601:2016)  
- zamijenjena s: HRN EN ISO/IEEE 11073-20601:2023



## **HZN/TO 502, Plinski uređaji**

HRN EN 1854:2010 en

Naprave za nadzor (ograničenje) tlaka za plinske plamenike i plinske aparate (EN 1854:2010)  
Pressure sensing devices for gas burners and gas burning appliances (EN 1854:2010)  
- zamijenjena s: HRN EN 1854:2023

HRN EN 16905-5:2017 en

Dizalice topline s plinskim endotermnim motorom – 5. dio: Proračun sezonskih značajka pri grijanju i hlađenju (EN 16905-5:2017)  
Gas-fired endothermic engine driven heat pumps – Part 5: Calculation of seasonal performances in heating and cooling mode (EN 16905-5:2017)  
- zamijenjena s: HRN EN 16905-5:2023

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

HRN EN 12020-2:2016 en

Aluminij i aluminijeve legure – Istisnuti precizni profili od legura EN AW-6060 i EN AW-6063 – 2. dio: Dopuštena odstupanja dimenzija i oblika (EN 12020-2:2016)  
Aluminium and aluminium alloys – Extruded precision profiles in alloys EN AW-6060 and EN AW-6063 – Part 2: Tolerances on dimensions and form (EN 12020-2:2016)  
- zamijenjena s: HRN EN 12020-2:2023

HRN EN 12020-2:2016/Ispr.1:2017 en

Aluminij i aluminijeve legure – Istisnuti precizni profili od legura EN AW-6060 i EN AW-6063 – 2. dio: Dopuštena odstupanja dimenzija i oblika (EN 12020-2:2016/AC:2017)  
Aluminium and aluminium alloys – Extruded precision profiles in alloys EN AW-6060 and EN AW-6063 – Part 2: Tolerances on dimensions and form (EN 12020-2:2016/AC:2017)  
- zamijenjena s: HRN EN 12020-2:2023

## **HZN/TO 513, Mjerne jedinice i mjerila**

HRN EN ISO 80000-1:2013 en

Veličine i jedinice – 1. dio: Općenito (ISO 80000-1:2009+Cor 1:2011; EN ISO 80000-1:2013)  
Quantities and units – Part 1: General (ISO 80000-1:2009+Cor 1:2011; EN ISO 80000-1:2013)  
- zamijenjena s: HRN EN ISO 80000-1:2023

## **HZN/TO 515, Žičare, uspinjače i vučnice**

HRN EN 13223:2015 en

Sigurnosni zahtjevi za žičare za prijevoz osoba – Pogonski sustavi i ostali mehanički uređaji (EN 13223:2015)  
Safety requirements for cableway installations designed to carry persons – Drive systems and other mechanical equipment (EN 13223:2015)  
- zamijenjena s: HRN EN 13223:2023

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

HRN EN ISO 14825:2011 en

Inteligentni transportni sustavi – Datoteke zemljopisnih podataka – GDF5.0 (ISO 14825:2011; EN ISO 14825:2011)  
Intelligent transport systems – Geographic Data Files (GDF) – GDF5.0 (ISO 14825:2011; EN ISO 14825:2011)  
- zamijenjena s: HRN EN ISO 20524-2:2023, HRN EN ISO 20524-1:2023

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

HRN EN 13103-1:2018 en

Željeznički sustav – Osovinski sklopovi i okretna postolja – Metoda projektiranja za vanjske nosive osovine (EN 13103-1:2017)  
Railway applications – Wheelsets and bogies – Part 1: Design method for axles with external journals (EN 13103-1:2017)  
- zamijenjena s: HRN EN 13103-1:2023

HRN EN 15437-1:2009 en

Željeznički sustav – Nadzor nad stanjem kućišta osovinskih ležajeva – Zahtjevi povezivosti i oblikovanja – 1. dio: Uređaji za otkrivanje pregrijanih ležajeva i kućište osovinskih ležajeva (EN 15437-1:2009)  
Railway applications – Axlebox condition monitoring – Interface and design requirements – Part 1: Track side equipment and rolling stock axlebox (EN 15437-1:2009)  
- zamijenjena s: HRN EN 15437-1:2023

HRN EN 15437-2:2013 en

Željeznički sustav – Nadzor nad stanjem kućišta osovinskih ležajeva – Zahtjevi povezivosti i oblikovanja – 2. dio: Radni zahtjevi i oblikovanje ugrađenih sustava za praćenje temperature (EN 15437-2:2012)  
Railway applications – Axlebox condition monitoring – Interface and design requirements – Part 2: Performance and design requirements of on-board systems for temperature monitoring (EN 15437-2:2012)  
- zamijenjena s: HRN EN 15437-2:2023

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

HRN EN 13411-3:2008 en

Završetci čeličnih užadi – Sigurnost – 3. dio: Omče s uprešanim stezaljkama (EN 13411-3:2004+A1:2008)  
Terminations for steel wire ropes – Safety – Part 3: Ferrules and ferrule-securing (EN 13411-3:2004+A1:2008)  
- zamijenjena s: HRN EN 13411-3:2023

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

HRN EN ISO 1675:2008 en

Plastika – Kapljevite smole – Određivanje gustoće metodom piknometra (ISO 1675:1985; EN ISO 1675:1998)  
Plastics – Liquid resins – Determination of density by the pyknometer method (ISO 1675:1985; EN ISO 1675:1998)  
- zamijenjena s: HRN EN ISO 1675:2023

HRN EN ISO 6401:2009 en

Plastika – Poli(vinil-klorid) – Određivanje ostatnog vinil-klorida – Metoda plinske kromatografije (ISO 6401:2008; EN ISO 6401:2008)  
Plastics – Poly(vinyl chloride) – Determination of residual vinyl chloride monomer – Gas-chromatographic method (ISO 6401:2008; EN ISO 6401:2008)  
- zamijenjena s: HRN EN ISO 6401:2023

## **HZN/TO 535, Agregati**

HRN EN 933-6:2014 en

Ispitivanja geometrijskih svojstava agregata – 6. dio: Procjena značajka površina – Koeficijent protoka agregata (EN 933-6:2014)  
Tests for geometrical properties of aggregates – Part 6: Assessment of surface characteristics – Flow coefficient of aggregates (EN 933-6:2014)  
- zamijenjena s: HRN EN 933-6:2023

## **HZN/TO 544, Strojni elementi**

HRN EN ISO 2702:2012 en

Toplinski obrađeni čelični vijci za lim – Mehanička svojstva (ISO 2702:2011; EN ISO 2702:2011)  
Heat-treated steel tapping screws – Mechanical properties (ISO 2702:2011; EN ISO 2702:2011)  
- zamijenjena s: HRN EN ISO 2702:2023

## **HZN/TO 558, Zaštita dišnih putova**

HRN EN 14435:2004 en

Zaštitne naprave za disanje – Samostalni uređaji za disanje s otvorenim krugom sa stlačenim zrakom, s polumaskom za uporabu samo s nadtlakom – Zahtjevi, ispitivanje, označivanje (EN 14435:2004)  
Respiratory protective devices – Self-contained open-circuit compressed air breathing apparatus with half mask designed to be used with positive pressure only – Requirements, testing, marking (EN 14435:2004)  
- bez zamjene

HRN EN 14529:2005 en

Zaštitne naprave za disanje – Samostalni uređaji za disanje s otvorenim krugom sa stlačenim zrakom, s polumaskom, za plućne automate s nadtlakom, samo u svrhu spašavanja – Zahtjevi, ispitivanje, označavanje (EN 14529:2005)  
Respiratory protective devices – Self-contained open-circuit compressed air breathing apparatus with half mask designed to include a positive pressure lung governed demand valve for escape purposes only – Requirements, testing, marking (EN 14529:2005)  
- bez zamjene

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

HRN EN 15618:2012 en

Plošni tekstil naslojen gumom ili plastikom – Plošni tekstil za namještaj – Razredba i metode ispitivanja (EN 15618:2009+A1:2012)  
Rubber- or plastic-coated fabrics – Upholstery fabrics – Classification and methods of test (EN 15618:2009+A1:2012)  
- zamijenjena s: HRN EN 15618:2023

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

HRN EN 13110:2017 en

Oprema i pribor za UNP – Prenosive, ponovno punjive, zavarene aluminijske boce za ukapljeni naftni plin (UNP) – Projektiranje i izrada (EN 13110:2012+A1:2017)  
LPG equipment and accessories – Transportable refillable welded aluminium cylinders for liquefied petroleum gas (LPG) – Design and construction (EN 13110:2012+A1:2017)  
- zamijenjena s: HRN EN 13110:2023

### **HZN/TO 562, Alatni strojevi i alati**

HRN EN ISO 16090-1:2018 en

Sigurnost alatnih strojeva – Obradni centri, glodalice, strojevi za prijenos – 1. dio: Sigurnosni zahtjevi (ISO 16090-1:2017; EN ISO 16090-1:2018)  
Machine tools safety – Machining centres, Milling machines, Transfer machines – Part 1: Safety requirements (ISO 16090-1:2017; EN ISO 16090-1:2018)  
- zamijenjena s: HRN EN ISO 16090-1:2023

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

HRN EN 50238-1:2007 hr-en

Željeznički sustav – Kompatibilnost između željezničkih vozila i sustava detekcije vlaka – 1. dio: Općenito (EN 50238-1:2003)  
Railway applications – Compatibility between rolling stock and train detection systems – Part 1: General (EN 50238-1:2003)  
- zamijenjena s: HRN EN 50238-1:2019

HRN EN 50238-1:2007/Ispr.1:2016 hr-en

Željeznički sustav – Kompatibilnost između željezničkih vozila i sustava detekcije vlaka – 1. dio: Općenito (EN 50238-1:2003/AC:2014)  
Railway applications – Compatibility between rolling stock and train detection systems – Part 1: General (EN 50238-1:2003/AC:2014)  
- zamijenjena s: HRN EN 50238-1:2019

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

HRN EN 50532:2010 en

Blokovi kompaktne izvedbe za distribucijske transformatorske stanice (EN 50532:2010)  
Compact Equipment Assembly for Distribution Substations (CEADS) (EN 50532:2010)  
- zamijenjena s: HRN EN 62271-212:2017

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

HRN EN 60601-2-46:2012 en

Medicinska električni uređaji – Dio 2-46: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke operacijskih stolova (IEC 60601-2-46:2010; EN 60601-2-46:2011)  
Medical electrical equipment – Part 2-46: Particular requirements for the basic safety and essential performance of operating tables (IEC 60601-2-46:2010; EN 60601-2-46:2011)  
- zamijenjena s: HRN EN IEC 60601-2-46:2019

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

HRI CLC/TR 50448:2008 en

Vodič za razine osposobljenosti zahtijevane u sigurnosti lasera (CLC/TR 50448:2005)  
Guide to levels of competence required in laser safety (CLC/TR 50448:2005)  
- bez zamjene

HRN EN 60825-12:2008 en

Sigurnost laserskih proizvoda – 12. dio: Sigurnost optičkih komunikacijskih sustava koji se upotrebljavaju za prijenos informacija u otvorenome prostoru (IEC 60825-12:2004; EN 60825-12:2004)  
Safety of laser products – Part 12: Safety of free space optical communication systems used for transmission of information (IEC 60825-12:2004; EN 60825-12:2004)  
- zamijenjena s: HRN EN IEC 60825-12:2019

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

HRN EN 62586-2:2014 hr-en

Mjerenje kvalitete energije u sustavima opskrbe energijom – 2. dio: Funkcionalna ispitivanja i zahtjevi nesigurnosti (IEC 62586-2:2013; EN 62586-2:2014)  
Power quality measurement in power supply systems – Part 2: Functional tests and uncertainty requirements (IEC 62586-2:2013; EN 62586-2:2014)  
- zamijenjena s: HRN EN 62586-2:2017

HRN EN 62586-2:2014/Ispr.1:2015 hr-en

Mjerenje kvalitete energije u sustavima opskrbe energijom – 2. dio: Funkcionalna ispitivanja i zahtjevi nesigurnosti (IEC 62586-2:2013/Corr.1:2014; EN 62586-2:2014/AC:2014)  
Power quality measurement in power supply systems – Part 2: Functional tests and uncertainty requirements (IEC 62586-2:2013/Corr.1:2014; EN 62586-2:2014/AC:2014)  
- zamijenjena s: HRN EN 62586-2:2017

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

HRN HD 483.2 S2:2003 en

Oprema audiosustava – 2. dio: Objašnjenje općih pojmova i računskih postupaka (IEC 60268-2:1987+am1:1991; HD 483.2 S2:1993)  
Sound system equipment – Part 2: Explanation of general terms and calculation methods (IEC 60268-2:1987+am1:1991; HD 483.2 S2:1993)  
- bez zamjene

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

HRN ISO 386:2003 en

Laboratorijski termometri punjeni tekućinom – Načela dizajna, izvedbe i uporabe (ISO 386:1977)  
Liquid-in-glass laboratory thermometers – Principles of design, construction and use (ISO 386:1977)  
- bez zamjene

HRN ISO 651:2001 en

Štapni termometri za kalorimetre (ISO 651:1975)  
Solid-stem calorimeter thermometers (ISO 651:1975)  
- bez zamjene

HRN ISO 652:2001 en

Termometri zatvorene skale za kalorimetre (ISO 652:1975)  
Enclosed-scale calorimeter thermometers (ISO 652:1975)  
- bez zamjene

HRN ISO 1770:2001 en

Štapni termometri opće namjene (ISO 1770:1981)  
Solid-stem general purpose thermometers (ISO 1770:1981)  
- bez zamjene

HRN ISO 1770:2001/A1:2017 en

Štapni termometri opće namjene (ISO 1770:1981/Amd 1:1983)  
Solid-stem general purpose thermometers (ISO 1770:1981/Amd 1:1983)  
- bez zamjene

HRN ISO 1771:2001 en  
Termometri opće namjene sa zatvorenom skalom (ISO 1771:1981)  
Enclosed-scale general purpose thermometers (ISO 1771:1981)  
- bez zamjene

HRN ISO 1771:2001/A1:2016 en  
Termometri opće namjene sa zatvorenom skalom  
(ISO 1771:1981/Amd 1:1983)  
Enclosed-scale general purpose thermometers  
(ISO 1771:1981/Amd 1:1983)  
- bez zamjene

HRN ISO 3839:2001 en  
Naftni proizvodi – Određivanje bromnog broja destilata  
i alifatskih olefina (alkena) – Elektrometrijska metoda  
(ISO 3839:1996)  
Petroleum products – Determination of bromine number  
of distillates and aliphatic olefins – Electrometric method  
(ISO 3839:1996)  
- bez zamjene

HRN ISO 4786:2001 en  
Termometri zatvorene skale i podesivog raspona (ISO 4786:1977)  
Enclosed-scale adjustable-range thermometers (ISO 4786:1977)  
- bez zamjene

HRN ISO 4795:2001 en  
Staklo za termometerske spremnike (ISO 4795:1996)  
Glass for thermometers bulbs (ISO 4795:1996)  
- bez zamjene

HRN ISO 8661:2001 en  
6-Heksanolaktam (kaprolaktam) za industrijsku uporabu  
– Određivanje udjela hlapljivih baza – Titrimetrijska metoda  
nakon destilacije (ISO 8661:1988)  
Caprolaktam for industrial use – Determination of volatile  
bases content – Titrimetric method after distillation  
(ISO 8661:1988)  
- bez zamjene

HRI CEN/TR 16589:2014 en  
Laboratorijske instalacije – Uređaji za hvatanje sa zglobnom  
rukom (CEN/TR 16589:2013)  
Laboratory installations – Capture devices with articulated  
extract arm (CEN/TR 16589:2013)  
- zamijenjena s: HRN EN 16589-1:2023

## HZN/TU I2, Strojstvo 2

HRN EN 710:2011 en  
Sigurnosni zahtjevi za strojeve i postrojenja za lijevanje u  
kalupe, proizvodnju ljevačkih jezgri i njihovu prateću opremu  
(EN 710:1997+A1:2010)  
Safety requirements for foundry moulding and  
coremaking machinery and plant associated equipment  
(EN 710:1997+A1:2010)  
- zamijenjena s: HRN EN ISO 23062:2023

HRN EN 710:2011/lSpr.1:2013 en  
Sigurnosni zahtjevi za strojeve i postrojenja za lijevanje u  
kalupe, proizvodnju ljevačkih jezgri i njihovu prateću opremu  
(EN 710:1997+A1:2010/AC:2012)  
Safety requirements for foundry moulding and  
coremaking machinery and plant associated equipment  
(EN 710:1997+A1:2010/AC:2012)  
- zamijenjena s: HRN EN ISO 23062:2023

HRN EN 14785:2008 en  
Grijalice prostora na drvene pelete – Zahtjevi i ispitne metode  
(EN 14785:2006)  
Residential space heating appliances fired by wood pellets  
– Requirements and test methods (EN 14785:2006)  
- zamijenjena s: HRN EN 16510-2-6:2023

HRN EN 16510-1:2018 en  
Uređaji na kruta goriva za kućanstvo – 1. dio: Opći zahtjevi i  
metode ispitivanja (EN 16510-1:2018)  
Residential solid fuel burning appliances – Part 1: General  
requirements and test methods (EN 16510-1:2018)  
- zamijenjena s: HRN EN 16510-1:2023

HRS CEN/TS 17010:2016 en  
Nanotehnologija – Upute o mjernim veličinama za  
karakterizaciju nano objekata i materijala koji ih sadrže  
(CEN/TS 17010:2016)  
Nanotechnologies – Guidance on measurands for  
characterising nano-objects and materials that contain them  
(CEN/TS 17010:2016)  
- bez zamjene

## HZN/TU N1, Nemetalni materijali 1

HRN EN 725-2:2008 en  
Tehnička keramika – Metode ispitivanja keramičkoga praha  
– 2. dio: Određivanje nečistoća barij titanata (EN 725-2:2007)  
Advanced technical ceramics – Methods of test for ceramic  
powders – Part 2: Determination of impurities in barium  
titanate (EN 725-2:2007)  
- zamijenjena s: HRN EN ISO 21813:2023

HRN EN 725-4:2008 en  
Tehnička keramika – Metode ispitivanja keramičkoga praha  
– 4. dio: Određivanje sadržaja kisika u aluminij nitridu  
pomoću XRF analize (EN 725-4:2006)  
Advanced technical ceramics – Methods of test for ceramic  
powders – Part 4: Determination of oxygen content in  
aluminium nitride by XRF analysis (EN 725-4:2006)  
- zamijenjena s: HRN EN ISO 21814:2023

HRN EN 725-11:2008 en  
Tehnička keramika – Metode ispitivanja keramičkoga praha  
– 11. dio: Određivanje zadebljanja pri prirodnom sinteriranju  
(EN 725-11:2006)  
Advanced technical ceramics – Methods of test for ceramic  
powders – Part 11: Determination of densification on natural  
sintering (EN 725-11:2006)  
- zamijenjena s: HRN EN ISO 21821:2023

HRN EN 843-5:2008 en  
Tehnička keramika – Mehanička svojstva monolitne  
keramike na sobnoj temperaturi – 5. dio: Statističke analize  
(EN 843-5:2006)  
Advanced technical ceramics – Mechanical properties of  
monolithic ceramics at room temperature – Part 5: Statistical  
analysis (EN 843-5:2006)  
- zamijenjena s: HRN EN ISO 20501:2023

HRN EN ISO 20504:2019 en  
Fine ceramics (advanced ceramics, advanced technical  
ceramics) – Mechanical properties of ceramic composites at  
room temperature – Determination of compressive properties  
(ISO 20504:2019; EN ISO 20504:2019)  
- zamijenjena s: HRN EN ISO 20504:2023

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

HRI CR 296:2010 en  
Studija izvedivosti normizacijskog programa u području  
zdravlja i sigurnosti na radu (CR 296:1989)  
Feasibility study of a standardization programme in the area  
of health and safety at the workplace (CR 296:1989)  
- bez zamjene

HRI CR 14252:2010 en  
Koordinacija mikrobioloških norma – Registar projekata od  
zajedničkog interesa (CR 14252:2001)  
Co-ordination on microbiological Standards – Register of  
work items of common interest (CR 14252:2001)  
- bez zamjene

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

HRN EN 2235:2015 en  
Zrakoplovstvo – Jednožilni i višežilni električni kabeli,  
zaštićeni i obavijeni – Tehnička specifikacija (EN 2235:2015)  
Aerospace series – Single and multicore electrical cable,  
screened and jacketed – Technical specification (EN 2235:2015)  
- zamijenjena s: HRN EN 2235:2023

HRN EN 2997-002:2016 en

Zrakoplovstvo – Spojnice, električne, kružne, spojene navojnim prstenom, otporne na vatru ili neotporne na vatru, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – Dio 002: Specifikacije značajki i položaji kontakta (EN 2997-002:2016)

Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 002: Specification of performance and contact arrangements (EN 2997-002:2016)

- zamijenjena s: HRN EN 2997-002:2023

HRN EN 3364:2008 en

Nizovi o zrakoplovstvu – Čelik FE-PM1802 (X5CrNiCu15-5) – Pretopljen elektrodom za zavarivanje, omekšan, materijal namijenjen kovanju a ili D ≤ 300 mm (EN 3364:2007)

Aerospace series – Steel FE-PM1802 (X5CrNiCu15-5) – Consumable electrode remelted, softened, forging stock a or D ≤ 300 mm (EN 3364:2007)

- zamijenjena s: HRN EN 3364:2023

HRN EN 3375-011:2017 en

Zrakoplovstvo – Električni kabeli za prijenos digitalnih podataka – Dio 011: Jednostruko pleteni – Četverožilni 100 oma – Male težine – Tip KL – Norma za proizvod (EN 3375-011:2017)

Aerospace series – Cable, electrical for digital data transmission – Part 011: Single braid – Star Quad 100 ohms – Light weight – Type KL – Product standard (EN 3375-011:2017)

- zamijenjena s: HRN EN 3375-011:2023

HRN EN 4627:2014 en

Nizovi o zrakoplovstvu – Čelik X4CrNiMo16-5-1 (1.4418) – Taljen na zraku – Kaljen i termički obrađen – Otkivci – De ≤ 200 mm – 1 150 MPa ≤ Rm ≤ 1 300 MPa (EN 4627:2014)

Aerospace series – Steel X4CrNiMo16-5-1 (1.4418) – Air melted – Hardened and tempered – Forgings – De ≤ 200 mm – 1 150 MPa ≤ Rm ≤ 1 300 MPa (EN 4627:2014)

- zamijenjena s: HRN EN 4627:2023

HRN EN 4628:2013 en

Nizovi o zrakoplovstvu – Čelik X4CrNiMo16-5-1 (1.4418) – Taljen na zraku – Kaljen i termički obrađen – Šipke – De ≤ 200 mm – 1 150 MPa ≤ Rm ≤ 1 300 MPa (EN 4628:2013)

Aerospace series – Steel X4CrNiMo16-5-1 (1.4418) – Air melted – Hardened and tempered – Bar – De ≤ 200 mm – 1 150 MPa ≤ Rm ≤ 1 300 MPa (EN 4628:2013)

- zamijenjena s: HRN EN 4628:2023

HRN EN 6069:2012 en

Nizovi o zrakoplovstvu – Zakovica, 100° skraćene ravne glave, s posebnom tolerancijom – Nizovi u inčima (EN 6069:2009)

Aerospace series – Rivet, 100° reduced flush head, close tolerance – Inch series (EN 6069:2009)

- zamijenjena s: HRN EN 6069:2023

HRN EN 6080:2016 en

Zrakoplovstvo – Zakovica, 100° normalne ravne glave, uske tolerancije – Nizovi u inčima (EN 6080:2016)

Aerospace series – Rivet, 100° normal flush head, close tolerance – Inch series (EN 6080:2016)

- zamijenjena s: HRN EN 6080:2023

HRN EN 6081:2016 en

Zrakoplovstvo – Zakovica, univerzalne glave, uske tolerancije – Nizovi u inčima (EN 6081:2016)

Aerospace series – Rivet, universal head, close tolerance – Inch series (EN 6081:2016)

- zamijenjena s: HRN EN 6081:2023

HRN EN 6101:2016 en

Zrakoplovstvo – Zakovica, 100° srednje ravne glave, uske tolerancije – Nizovi u inčima (EN 6101:2016)

Aerospace series – Rivet, 100° medium flush head, close tolerance – Inch series (EN 6101:2016)

- zamijenjena s: HRN EN 6101:2023

HRN EN 9114:2016 en

Zrakoplovstvo – Sustavi kvalitete – Upute za izravnu otpremu za zrakoplovne tvrtke (EN 9114:2015)

Aerospace series – Quality systems – Direct Ship Guidance for Aerospace Companies (EN 9114:2015)

- zamijenjena s: HRN EN 9114:2023

## HZN/TU U1, *Opća elektrotehnika 1*

HRN EN 62430:2010 en

Dizajn električnih i elektroničkih proizvoda s obzirom na brigu o okolišu (IEC 62430:2009; EN 62430:2009)

Environmentally conscious design for electrical and electronic products (IEC 62430:2009; EN 62430:2009)

- zamijenjena s: HRN EN IEC 62430:2020

## HZN/TU V1, *Elektronika 1*

HRN EN 50109-2-1:2008 en

Hand crimping tools – Tools for the crimp termination of electric cables and wires for low frequency and radio frequency applications – Part 2-1: Particular requirements for radio frequency connectors and concentric contacts – Open throat tools with fixed dies, sizes A to E, V and W (EN 50109-2-1:1995)

- bez zamjene

HRN EN 50109-2-3:2008 en

Hand crimping tools – Tools for the crimp termination of electric cables and wires for low frequency and radio frequency applications – Part 2-3: Particular requirements for contacts of electrical connectors (EN 50109-2-3:1995)

- bez zamjene

HRN EN 50109-2-4:2008 en

Hand crimping tools – Tools for the crimp termination of electric cables and wires for low frequency and radio frequency applications – Part 2-4: Particular requirements for centre contacts of RF connectors, series SMZ (EN 50109-2-4:1995)

- bez zamjene

HRN EN 50288-8:2012 en

Višežilni metalni kabeli za uporabu u analognim i digitalnim komunikacijama i upravljanju – 8. dio: Specifikacija za tip 1 kabela za primjenu do 2 MHz (EN 50288-8:2012)

Multi-element metallic cables used in analogue and digital communication and control – Part 8: Specification for type 1 cables characterised up to 2 MHz (EN 50288-8:2012)

- bez zamjene

HRN EN 50441-1:2012 en

Kabeli za telekomunikacijske instalacije u stambenom prostoru – 1. dio: Neoklopljeni kabeli – Klasa (razred) 1 (EN 50441-1:2012)

Cables for indoor residential telecommunication installations – Part 1: Unscreened cables – Grade 1 (EN 50441-1:2012)

- bez zamjene

HRN EN 50441-2:2012 en

Kabeli za telekomunikacijske instalacije u stambenom prostoru – 2. dio: Oklopljeni kabeli – Klasa (razred) 2 (EN 50441-2:2012)

Cables for indoor residential telecommunication installations – Part 2: Screened cables – Grade 2 (EN 50441-2:2012)

- bez zamjene

HRN EN 50441-3:2008 en

Kabeli za telekomunikacijske instalacije u stambenom prostoru – 3. dio: Oklopljeni kabeli – Klasa (razred) 3 (EN 50441-3:2006)

Cables for indoor residential telecommunication installations – Part 3: Screened cables – Grade 3 (EN 50441-3:2006)

- bez zamjene

HRN EN 50441-4:2012 en

Kabeli za telekomunikacijske instalacije u stambenom prostoru – 4. dio: Kabeli do 1200 MHz – Klasa (razred) 3 (EN 50441-4:2012)

Cables for indoor residential telecommunication installations – Part 4: Cables up to 1200 MHz – Grade 3 (EN 50441-4:2012)

- bez zamjene

HRN EN 60512-28-100:2014 en

Connectors for electronic equipment – Tests and measurements – Part 28-100: Signal integrity tests up to 1 000 MHz on IEC 60603-7 and IEC 61076-3 series connectors – Tests 28a to 28g (IEC 60512-28-100:2013; EN 60512-28-100:2013)  
- zamijenjena s: HRN EN 60512-28-100:2020

HRN EN 60793-2:2016 en

Optička vlakna – 2. dio: Specifikacije proizvoda – Općenito (IEC 60793-2:2015; EN 60793-2:2016)  
Optical fibres – Part 2: Product specifications – General (IEC 60793-2:2015; EN 60793-2:2016)  
- zamijenjena s: HRN EN IEC 60793-2:2020

HRN EN 60794-1-23:2014 en

Svjetlovodni kabeli – Dio 1-23: Generička specifikacija – Osnovni postupci ispitivanja svjetlovodnih kabela – Metode ispitivanja elemenata kabela (IEC 60794-1-23:2012; EN 60794-1-23:2012)  
Optical fibre cables – Part 1-23: Generic specification – Basic optical cable test procedures – Cable element test methods (IEC 60794-1-23:2012; EN 60794-1-23:2012)  
- zamijenjena s: HRN EN IEC 60794-1-23:2019

HRN EN 60904-4:2010 en

Fotonaponski uređaji – 4. dio: Referentni solarni uređaji – Postupci za utvrđivanje sljedivosti umjeravanja (IEC 60904-4:2009; EN 60904-4:2009)  
Photovoltaic devices – Part 4: Reference solar devices – Procedures for establishing calibration traceability (IEC 60904-4:2009; EN 60904-4:2009)  
- zamijenjena s: HRN EN IEC 60904-4:2020

HRN EN 61753-131-3:2012 en

Fibre optic interconnecting devices and passive components – Performance standard – Part 131-3: Single-mode mechanical fibre splice for category U – Uncontrolled environment (IEC 61753-131-3:2010; EN 61753-131-3:2011)  
- zamijenjena s: HRN EN IEC 61753-131-03:2021

HRN EN 153000:2008 en

Generic specification – Discrete pressure contact power semiconductor devices (Qualification approval) (EN 153000:1998)  
- bez zamjene

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

#### • umjesto

HRN EN ISO/ASTM 52909:2022

**Aditivna proizvodnja** – Svojstva gotovih dijelova – Ovisnost mehaničkih svojstava dijelova izrađenih stapanjem praškastih slojeva metala o orijentaciji i mjestu (ISO/ASTM 52909:2022; EN ISO/ASTM 52909:2022)

**Additive manufacturing** – Finished part properties – Orientation and location dependence of mechanical properties for metal powder bed fusion (ISO/ASTM 52909:2022; EN ISO/ASTM 52909:2022)

#### • treba biti

HRN EN ISO/ASTM 52909:2022

**Aditivna proizvodnja metala** – Svojstva gotovih dijelova – Ovisnost mehaničkih svojstava dijelova izrađenih stapanjem praškastih slojeva metala o orijentaciji i mjestu (ISO/ASTM 52909:2022; EN ISO/ASTM 52909:2022)

**Additive manufacturing of metals** – Finished part properties – Orientation and location dependence of mechanical properties for metal powder bed fusion (ISO/ASTM 52909:2022; EN ISO/ASTM 52909:2022)

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

#### • umjesto

HRN EN ISO 11608-3:2022

Injekcijski sustavi s iglom za medicinsku primjenu – Zahtjevi i metode ispitivanja – 3. dio: Spremnici za lijek i ugrađeni dijelovi za prolaz tekućine za upotrebu s injekcijskim sustavima s iglom (ISO 11608-3:2022; EN ISO 11608-3:2022)  
Needle-based injection systems for medical use – Requirements and test methods – Part 3: Containers and integrated fluid paths (ISO 11608-3:2022; EN ISO 11608-3:2022)

#### • treba biti

HRN EN ISO 11608-3:2022

Injekcijski sustavi s iglom za medicinsku primjenu – Zahtjevi i metode ispitivanja – 3. dio: Spremnici za lijek i ugrađeni dijelovi za prolaz tekućine za upotrebu s injekcijskim sustavima s iglom (ISO 11608-3:2022, **ispravljena verzija 2023-01**; EN ISO 11608-3:2022)

Needle-based injection systems for medical use – Requirements and test methods – Part 3: Containers and integrated fluid paths (ISO 11608-3:2022, **Corrected version 2023-01**; EN ISO 11608-3:2022)

## 1.7 Naslovi objavljenih hrvatskih norma na hrvatskome jeziku

Te su hrvatske norme ranije objavljene samo s naslovima na engleskome jeziku pa se sada objavljuju njihovi naslovi na hrvatskome jeziku.

### HZN/ TO T4, Normizacija u telekomunikacijama

- HRN EN 300 402-4 V1.2.3:2009 en pr  
Digitalna mreža integriranih usluga (ISDN) – Protokol sustava digitalne pretplatničke signalizacije br. 1 (DSS1) – Sloj podatkovne veze – 4. dio: Predložak specifikacije izvještaja o usklađenosti implementacije (PICS) glavnog protokola (EN 300 402-4 V1.2.3:1999)  
Integrated Services Digital Network (ISDN) – Digital Subscriber Signalling System No. one (DSS1) protocol – Data link layer – Part 4: Protocol Implementation Conformance Statement (PICS) proforma specification for the general protocol (EN 300 402-4 V1.2.3:1999)
- HRN EN 300 402-7 V1.4.5:2009 en pr  
Digitalna mreža integriranih usluga (ISDN) – Protokol sustava digitalne pretplatničke signalizacije br. 1 (DSS1) – Sloj podatkovne veze – 7. dio: Paket apstraktnih specifikacija ispitivanja (ATS) i dodatne informacije za primjenu protokola za ispitivanje (PIXIT), djelomična proforma specifikacija za glavni protokol (EN 300 402-7 V1.4.5:2000)  
Integrated Services Digital Network (ISDN) – Digital Subscriber Signalling System No. one (DSS1) protocol – Data link layer – Part 7: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the general protocol (EN 300 402-7 V1.4.5:2000)
- HRN EN 300 403-1 V1.2.2:2009 en pr  
Digitalna mreža integriranih usluga (ISDN) – Protokol sustava digitalne pretplatničke signalizacije br. 1 (DSS1) – Signalni mrežni sloj za kontrolu osnovnih poziva u kružnom načinu rada – 1. dio: Specifikacija protokola [Preporuka ITU-T-a Q.931 (1993), preinačena] (EN 300 403-1 V1.2.2:1998)  
Integrated Services Digital Network (ISDN) – Digital Subscriber Signalling System No. one (DSS1) protocol – Signalling network layer for circuit-mode basic call control – Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified] (EN 300 403-1 V1.2.2:1998)
- HRN EN 300 403-1 V1.3.2:2009 en pr  
Digitalna mreža integriranih usluga (ISDN) – Protokol sustava digitalne pretplatničke signalizacije br. 1 (DSS1) – Signalni mrežni sloj za kontrolu osnovnih poziva u kružnom načinu rada – 1. dio: Specifikacija protokola [Preporuka ITU-T-a Q.931 (1993), preinačena] (EN 300 403-1 V1.3.2:1999)  
Integrated Services Digital Network (ISDN) – Digital Subscriber Signalling System No. one (DSS1) protocol – Signalling network layer for circuit-mode basic call control – Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified] (EN 300 403-1 V1.3.2:1999)
- HRN EN 300 403-2 V1.3.1:2009 en pr  
Digitalna mreža integriranih usluga (ISDN) – Protokol sustava digitalne pretplatničke signalizacije br. 1 (DSS1) – Signalni mrežni sloj za kontrolu osnovnih poziva u kružnom načinu rada – 2. dio: Dijagrami jezika specifikacije i opisa (SDL) (EN 300 403-2 V1.3.1:2000)  
Integrated Services Digital Network (ISDN) – Digital Subscriber Signalling System No. one (DSS1) protocol – Signalling network layer for circuit-mode basic call control – Part 2: Specification and Description Language (SDL) diagrams (EN 300 403-2 V1.3.1:2000)
- HRN EN 300 403-3 V1.2.2:2009 en pr  
Digitalna mreža integriranih usluga (ISDN) – Protokol sustava digitalne pretplatničke signalizacije br. 1 (DSS1) – Signalni mrežni sloj za kontrolu osnovnih poziva u kružnom načinu rada – 3. dio: Predložak specifikacije izvještaja o usklađenosti implementacije protokola (PICS) (EN 300 403-3 V1.2.2:1998)  
Integrated Services Digital Network (ISDN) – Digital Subscriber Signalling System No. one (DSS1) protocol – Signalling network layer for circuit-mode basic call control – Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification (EN 300 403-3 V1.2.2:1998)
- HRN EN 300 403-3 V1.3.1:2009 en pr  
Digitalna mreža integriranih usluga (ISDN) – Protokol sustava digitalne pretplatničke signalizacije br. 1 (DSS1) – Signalni mrežni sloj za kontrolu osnovnih poziva u kružnom načinu rada – 3. dio: Predložak specifikacije izvještaja o usklađenosti implementacije protokola (PICS) (EN 300 403-3 V1.3.1:2000)  
Integrated Services Digital Network (ISDN) – Digital Subscriber Signalling System No. one (DSS1) protocol – Signalling network layer for circuit-mode basic call control – Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification (EN 300 403-3 V1.3.1:2000)
- HRN EN 300 403-3 V1.4.1:2009 en pr  
Digitalna mreža integriranih usluga (ISDN) – Protokol sustava digitalne pretplatničke signalizacije br. 1 (DSS1) – Signalni mrežni sloj za kontrolu osnovnih poziva u kružnom načinu rada – 3. dio: Predložak specifikacije izvještaja o usklađenosti implementacije protokola (PICS) (EN 300 403-3 V1.4.1:2001)  
Integrated Services Digital Network (ISDN) – Digital Subscriber Signalling System No. one (DSS1) protocol – Signalling network layer for circuit-mode basic call control – Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification (EN 300 403-3 V1.4.1:2001)
- HRN EN 300 403-6 V1.2.2:2009 en pr  
Digitalna mreža integriranih usluga (ISDN) – Protokol sustava digitalne pretplatničke signalizacije br. 1 (DSS1) – Signalni mrežni sloj za kontrolu osnovnih poziva u kružnom načinu rada – 6. dio: Struktura ispitnog paketa i svrhe ispitivanja (TSS&TP), specifikacija za mrežu (EN 300 403-6 V1.2.2:2000)  
Integrated Services Digital Network (ISDN) – Digital Subscriber Signalling System No. one (DSS1) protocol – Signalling network layer for circuit-mode basic call control – Part 6: Test Suite Structure and Test Purposes (TSS&TP) specification for the network (EN 300 403-6 V1.2.2:2000)
- HRN EN 300 403-7 V2.1.2:2009 en pr  
Digitalna mreža integriranih usluga (ISDN) – Protokol sustava digitalne pretplatničke signalizacije br. 1 (DSS1) – Signalni mrežni sloj za kontrolu osnovnih poziva u kružnom načinu rada – 7. dio: Paket apstraktnih specifikacija ispitivanja (ATS) i dodatne informacije za primjenu protokola za ispitivanje (PIXIT), djelomična proforma specifikacija za mrežu (EN 300 403-7 V2.1.2:2000)  
Integrated Services Digital Network (ISDN) – Digital Subscriber Signalling System No. one (DSS1) protocol – Signalling network layer for circuit-mode basic call control – Part 7: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network (EN 300 403-7 V2.1.2:2000)
- HRN EN 300 407 V1.2.1:2009 en pr  
Nepokretni radijski sustavi – Oprema od točke do točke – Parametri za digitalne radijske sustave za prijenos digitalnih signala koji rade na 55 GHz (EN 300 407 V1.2.1:2000)  
Fixed Radio Systems – Point-to-point equipment – Parameters for digital radio systems for the transmission of digital signals operating at 55 GHz (EN 300 407 V1.2.1:2000)
- HRN EN 300 407 V1.3.1:2009 en pr  
Nepokretni radijski sustavi – Oprema od točke do točke – Parametri za digitalne radijske sustave za prijenos digitalnih signala koji rade na 55 GHz (EN 300 407 V1.3.1:2001)  
Fixed Radio Systems – Point-to-point equipment – Parameters for digital radio systems for the transmission of digital signals operating at 55 GHz (EN 300 407 V1.3.1:2001)

- HRN EN 300 408 V1.2.1:2009 en pr  
Nepokretni radijski sustavi – Oprema od točke do točke – Parametri za digitalne radijske sustave za prijenos digitalnih signala i analognih video signala koji rade na oko 58 GHz, koji ne zahtijevaju koordinirano planiranje frekvencija (EN 300 408 V1.2.1:2000)  
Fixed Radio Systems – Point-to-point equipment – Parameters for digital radio systems for the transmission of digital signals and analogue video signals operating at around 58 GHz, which do not require co-ordinated frequency planning (EN 300 408 V1.2.1:2000)
- HRN EN 300 408 V1.3.1:2009 en pr  
Nepokretni radijski sustavi – Oprema od točke do točke – Parametri za digitalne radijske sustave za prijenos digitalnih signala i analognih video signala koji rade na oko 58 GHz, koji ne zahtijevaju koordinirano planiranje frekvencija (EN 300 408 V1.3.1:2002)  
Fixed Radio Systems – Point-to-point equipment – Parameters for digital radio systems for the transmission of digital signals and analogue video signals operating at around 58 GHz, which do not require co-ordinated frequency planning (EN 300 408 V1.3.1:2002)
- HRN EN 300 416 V1.2.1:2009 en pr  
Mrežni aspekti (NA) – Izvedba raspoloživosti elemenata međunarodnih digitalnih putova (EN 300 416 V1.2.1:1998)  
Network Aspects (NA) – Availability performance of path elements of international digital paths (EN 300 416 V1.2.1:1998)
- HRN EN 300 417-1-1 V1.1.2:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 1-1: Generički procesi i performanse (EN 300 417-1-1 V1.1.2:1998)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 1-1: Generic processes and performance (EN 300 417-1-1 V1.1.2:1998)
- HRN EN 300 417-1-1 V1.1.3:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 1-1: Generički procesi i performanse (EN 300 417-1-1 V1.1.3:1999)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 1-1: Generic processes and performance (EN 300 417-1-1 V1.1.3:1999)
- HRN EN 300 417-1-1 V1.2.1:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 1-1: Generički procesi i performanse (EN 300 417-1-1 V1.2.1:2001)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 1-1: Generic processes and performance (EN 300 417-1-1 V1.2.1:2001)
- HRN EN 300 417-1-2 V1.1.2:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 1-2: Opće informacije o predlošku izvještaja o usklađenosti implementacije (ICS) (EN 300 417-1-2 V1.1.2:1998)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 1-2: General information about Implementation Conformance Statement (ICS) proforma (EN 300 417-1-2 V1.1.2:1998)
- HRN EN 300 417-1-2 V1.1.3:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 1-2: Opće informacije o predlošku izvještaja o usklađenosti implementacije (ICS) (EN 300 417-1-2 V1.1.3:1999)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 1-2: General information about Implementation Conformance Statement (ICS) proforma (EN 300 417-1-2 V1.1.3:1999)
- HRN EN 300 417-10-1 V1.1.1:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 10-1: Specifične radijske funkcije sinkrone digitalne hijerarhije (SDH) (EN 300 417-10-1 V1.1.1:2003)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 10-1: Synchronous Digital Hierarchy (SDH) radio specific functionalities (EN 300 417-10-1 V1.1.1:2003)
- HRN EN 300 417-2-1 V1.1.2:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 2-1: Funkcije sloja fizičke sekcije sinkrone digitalne hijerarhije (SDH) i pleziokrone digitalne hijerarhije (PDH) (EN 300 417-2-1 V1.1.2:1998)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 2-1: Synchronous Digital Hierarchy (SDH) and Plesiochronous Digital Hierarchy (PDH) physical section layer functions (EN 300 417-2-1 V1.1.2:1998)
- HRN EN 300 417-2-1 V1.1.3:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 2-1: Funkcije sloja fizičke sekcije sinkrone digitalne hijerarhije (SDH) i pleziokrone digitalne hijerarhije (PDH) (EN 300 417-2-1 V1.1.3:1999)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 2-1: Synchronous Digital Hierarchy (SDH) and Plesiochronous Digital Hierarchy (PDH) physical section layer functions (EN 300 417-2-1 V1.1.3:1999)
- HRN EN 300 417-2-1 V1.2.1:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 2-1: Funkcije sloja fizičke sekcije sinkrone digitalne hijerarhije (SDH) i pleziokrone digitalne hijerarhije (PDH) (EN 300 417-2-1 V1.2.1:2001)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 2-1: Synchronous Digital Hierarchy (SDH) and Plesiochronous Digital Hierarchy (PDH) physical section layer functions (EN 300 417-2-1 V1.2.1:2001)
- HRN EN 300 417-2-2 V1.1.2:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 2-2: Funkcije sloja fizičke sekcije sinkrone digitalne hijerarhije (SDH) i pleziokrone digitalne hijerarhije (PDH) – Predložak specifikacije izvještaja o usklađenosti implementacije (ICS) (EN 300 417-2-2 V1.1.2:1998)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 2-2: Synchronous Digital Hierarchy (SDH) and Plesiochronous Digital Hierarchy (PDH) physical section layer functions – Implementation Conformance Statement (ICS) proforma specification (EN 300 417-2-2 V1.1.2:1998)
- HRN EN 300 417-2-2 V1.1.3:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 2-2: Funkcije sloja fizičke sekcije sinkrone digitalne hijerarhije (SDH) i pleziokrone digitalne hijerarhije (PDH) – Predložak specifikacije izvještaja o usklađenosti implementacije (ICS) (EN 300 417-2-2 V1.1.3:1999)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 2-2: Synchronous Digital Hierarchy (SDH) and Plesiochronous Digital Hierarchy (PDH) physical section layer functions – Implementation Conformance Statement (ICS) proforma specification (EN 300 417-2-2 V1.1.3:1999)
- HRN EN 300 417-2-2 V1.1.4:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 2-2: Funkcije sloja fizičke sekcije sinkrone digitalne hijerarhije (SDH) i pleziokrone digitalne hijerarhije (PDH) – Predložak specifikacije izvještaja o usklađenosti implementacije (ICS) (EN 300 417-2-2 V1.1.4:1999)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 2-2: Synchronous Digital Hierarchy (SDH) and Plesiochronous Digital Hierarchy (PDH) physical section layer functions – Implementation Conformance Statement (ICS) proforma specification (EN 300 417-2-2 V1.1.4:1999)
- HRN EN 300 417-3-1 V1.1.2:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 3-1: Funkcije regeneratorsa sinkronog transportnog modula-N (STM-N) i sloja multipleksne sekcije (EN 300 417-3-1 V1.1.2:1998)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 3-1: Synchronous Transport Module-N (STM-N) regenerator and multiplex section layer functions (EN 300 417-3-1 V1.1.2:1998)

- HRN EN 300 417-3-1 V1.1.3:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 3-1: Funkcije regeneratora sinkronog transportnog modula-N (STM-N) i sloja multipleksne sekcije (EN 300 417-3-1 V1.1.3:1999)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 3-1: Synchronous Transport Module-N (STM-N) regenerator and multiplex section layer functions (EN 300 417-3-1 V1.1.3:1999)
- HRN EN 300 417-3-1 V1.2.1:2009 en pr  
Prijenos i multipleksiranje (TM) – Generički zahtjevi za prijenosnu funkcionalnost opreme – Dio 3-1: Funkcije regeneratora sinkronog transportnog modula-N (STM-N) i sloja multipleksne sekcije (EN 300 417-3-1 V1.2.1:2001)  
Transmission and Multiplexing (TM) – Generic requirements of transport functionality of equipment – Part 3-1: Synchronous Transport Module-N (STM-N) regenerator and multiplex section layer functions (EN 300 417-3-1 V1.2.1:2001)
- HRN EN 300 417-3-2 V1.1.2:2009 en pr  
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Access and Terminals (AT) – Special quality voice bandwidth 2-wire analogue leased line (A2S) – Connection characteristics and network interface presentation (EN 300 449 V1.2.1:2001)
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Access and Terminals (AT) – Ordinary and Special quality voice bandwidth 2-wire analogue leased lines (A2O and A2S) – Terminal equipment interface (EN 300 450 V1.2.1:2001)
- HRN EN 300 451 V1.2.1:2009 en pr  
Pristup i terminali (AT) – 4-žična analogna iznajmljena linija glasovne propusnosti uobičajene kvalitete (A4O) – Karakteristike veze i prikaz mrežnog sučelja (EN 300 451 V1.2.1:2001)  
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Pristup i terminali (AT) – 4-žična analogna iznajmljena linija glasovne propusnosti uobičajene i posebne kvalitete (A2O and A2S) – Sučelje terminalne opreme (EN 300 453 V1.2.1:2001)  
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HRN EN 50524:2010 en pr  
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HRN EN 50530:2011/A1:2014 en pr  
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- HRN EN 61300-2-9:2017 en pr  
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- HRN EN 61701:2012 en pr  
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- HRN EN IEC 61701:2020 en pr  
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- HRN EN 61702:2008 en pr  
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- HRN EN 61829:2016 en pr  
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- HRS CLC/TS 61836:2010 en pr  
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- HRN EN 61853-1:2012 en pr  
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- HRN EN 61853-2:2017 en pr  
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- HRN EN IEC 61853-3:2018 en pr  
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- HRN EN IEC 61853-4:2018 en pr  
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- HRN EN 62037-4:2014 en pr  
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- HRN EN 62090:2017 en pr  
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- HRN EN 62093:2008 en pr  
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- HRN EN IEC 62109-3:2022 en pr  
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- HRN EN 62116:2014 en pr  
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- HRN EN 62124:2008 en pr  
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- HRN EN 62670-1:2014 en pr  
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- HRN EN 62670-2:2015 en pr  
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- HRN EN 62670-3:2017 en pr  
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- HRN EN 62759-1:2015 en pr  
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- HRN EN 62788-1-4:2017 en pr  
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- HRN EN 62788-1-4:2017/A1:2020 en pr  
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Measurement procedures for materials used in photovoltaic modules – Part 1-4: Encapsulants – Measurement of optical transmittance and calculation of the solar-weighted photon transmittance, yellowness index, and UV cut-off wavelength (IEC 62788-1-4:2016/am1:2020; EN 62788-1-4:2016/A1:2020)
- HRN EN 62788-1-5:2016 en pr  
Postupci mjerenja za materijale koji se koriste u fotonaponskim modulima – Dio 1-5: Enkapsulanti – Mjerenje promjene linearnih dimenzija ploča materijala za enkapsulaciju koja proizlazi iz primijenjenih toplinskih uvjeta (IEC 62788-1-5:2016; EN 62788-1-5:2016)  
Measurement procedures for materials used in photovoltaic modules – Part 1-5: Encapsulants – Measurement of change in linear dimensions of sheet encapsulation material resulting from applied thermal conditions (IEC 62788-1-5:2016; EN 62788-1-5:2016)
- HRN EN 62788-1-5:2016/Ispr.1:2018 en pr  
Postupci mjerenja za materijale koji se koriste u fotonaponskim modulima – Dio 1-5: Enkapsulanti – Mjerenje promjene linearnih dimenzija ploča materijala za enkapsulaciju koja proizlazi iz primijenjenih toplinskih uvjeta (IEC 62788-1-5:2016/Corr.1:2017; EN 62788-1-5:2016/AC:2017)  
Measurement procedures for materials used in photovoltaic modules – Part 1-5: Encapsulants – Measurement of change in linear dimensions of sheet encapsulation material resulting from applied thermal conditions (IEC 62788-1-5:2016/Corr.1:2017; EN 62788-1-5:2016/AC:2017)
- HRN EN 62788-1-6:2017 en pr  
Postupci mjerenja za materijale koji se koriste u fotonaponskim modulima – Dio 1-6: Enkapsulanti – Metode ispitivanja za određivanje stupnja otvrdnjavanja u etilen-vinil acetatnim enkapsulantima (IEC 62788-1-6:2017; EN 62788-1-6:2017)  
Measurement procedures for materials used in photovoltaic modules – Part 1-6: Encapsulants – Test methods for determining the degree of cure in Ethylene-Vinyl Acetate (IEC 62788-1-6:2017; EN 62788-1-6:2017)
- HRN EN 62788-1-6:2017/A1:2020 en pr  
Postupci mjerenja za materijale koji se koriste u fotonaponskim modulima – Dio 1-6: Enkapsulanti – Metode ispitivanja za određivanje stupnja otvrdnjavanja u etilen-vinil acetatnim enkapsulantima (IEC 62788-1-6:2017/am1:2020; EN 62788-1-6:2017/A1:2020)  
Measurement procedures for materials used in photovoltaic modules – Part 1-6: Encapsulants – Test methods for determining the degree of cure in Ethylene-Vinyl Acetate (IEC 62788-1-6:2017/am1:2020; EN 62788-1-6:2017/A1:2020)
- HRN EN IEC 62788-1-7:2020 en pr  
Postupci mjerenja za materijale koji se koriste u fotonaponskim modulima – Dio 1-7: Enkapsulanti – Postupak ispitivanja optičke trajnosti (IEC 62788-1-7:2020; EN IEC 62788-1-7:2020)  
Measurement procedures for materials used in photovoltaic modules – Part 1-7: Encapsulants – Test procedure of optical durability (IEC 62788-1-7:2020; EN IEC 62788-1-7:2020)
- HRN EN IEC 62788-6-2:2020 en pr  
Postupci mjerenja za materijale koji se koriste u fotonaponskim modulima – Dio 6-2: Opća ispitivanja – Ispitivanje propusnosti vlage polimernih materijala (IEC 62788-6-2:2020; EN IEC 62788-6-2:2020)  
Measurement procedures for materials used in photovoltaic modules – Part 6-2: General tests – Moisture permeation testing of polymeric materials (IEC 62788-6-2:2020; EN IEC 62788-6-2:2020)
- HRN EN 62805-1:2017 en pr  
Metoda mjerenja fotonaponskog (PV) stakla – 1. dio: Mjerenje ukupne zamagljenosti i spektralne distribucije zamagljenosti (IEC 62805-1:2017; EN 62805-1:2017)  
Method for measuring photovoltaic (PV) glass – Part 1: Measurement of total haze and spectral distribution of haze (IEC 62805-1:2017; EN 62805-1:2017)
- HRN EN 62805-2:2017 en pr  
Metoda mjerenja fotonaponskog (PV) stakla – 2. dio: Mjerenja propusnosti i refleksije (IEC 62805-2:2017; EN 62805-2:2017)  
Method for measuring photovoltaic (PV) glass – Part 2: Measurement of transmittance and reflectance (IEC 62805-2:2017; EN 62805-2:2017)
- HRN EN 62817:2015 en pr  
Solarni uređaj za praćenje sunca za fotonaponske sustave – Ocjena projekta (IEC 62817:2014; EN 62817:2015)  
Solar trackers for photovoltaic systems – Design qualification (IEC 62817:2014; EN 62817:2015)
- HRN EN 62817:2015/A1:2018 en pr  
Fotonaponski sustavi – Ocjena projekta za solarne uređaje za praćenje sunca (IEC 62817:2014/am1:2017; EN 62817:2015/A1:2017)  
Photovoltaic systems – Design qualification of solar trackers (IEC 62817:2014/am1:2017; EN 62817:2015/A1:2017)
- HRN EN IEC 62938:2020 en pr  
Fotonaponski (PV) moduli – Ispitivanje neravnomjernog opterećenja snijegom (IEC 62938:2020; EN IEC 62938:2020)  
Photovoltaic (PV) modules – Non-uniform snow load testing (IEC 62938:2020; EN IEC 62938:2020)
- HRN EN IEC 62941:2020 en pr  
Zemaljski fotonaponski (PV) moduli – Sustav kvalitete za proizvodnju fotonaponskih (PV) modula (IEC 62941:2019; EN IEC 62941:2020)  
Terrestrial photovoltaic (PV) modules – Quality system for PV module manufacturing (IEC 62941:2019; EN IEC 62941:2020)
- HRN EN 62979:2017 en pr  
Fotonaponski modul – Premosna dioda – Ispitivanje toplinske nestabilnosti (IEC 62979:2017; EN 62979:2017)  
Photovoltaic module – Bypass diode – Thermal runaway test (IEC 62979:2017; EN 62979:2017)

## 2 Rezultati međunarodne i europske normizacije

### Europska normizacija (CEN)

| Oznaka norme      | Naslov norme  | ICS                          | Datum objave |
|-------------------|---|------------------------------|--------------|
| EN 298            | Automatic burner control systems for burners and appliances burning gaseous or liquid fuels   | 27.060.01                    | 2022-11      |
| EN 303-5+A1       | Heating boilers – Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW – Terminology, requirements, testing and marking  | 91.140.10                    | 2022-11      |
| EN 676/AC         | Forced draught burners for gaseous fuels  | 27.060.20                    | 2022-11      |
| EN 927-2          | Paints and varnishes – Coating materials and coating systems for exterior wood – Part 2: Performance specification  | 87.040                       | 2022-11      |
| EN 933-5          | Tests for geometrical properties of aggregates – Part 5: Determination of percentage of crushed particles in coarse and all-in natural aggregates   | 91.100.15                    | 2022-11      |
| EN 1335-1+A1      | Office furniture – Office work chair – Part 1: Dimensions – Determination of dimensions   | 97.140                       | 2022-11      |
| EN 1468           | Natural stone – Rough slabs – Requirements  | 73.020; 91.100.15            | 2022-11      |
| EN 1493           | Vehicle lifts   | 43.180; 53.020.99            | 2022-11      |
| EN 1643           | Safety and control devices for burners and appliances burning gaseous and/or liquid fuels – Valve proving systems for automatic shut-off valves   | 23.060.40                    | 2022-11      |
| EN 1993-1-1       | Eurocode 3 – Design of steel structures – Part 1-1: General rules and rules for buildings   | 91.010.30; 91.080.13         | 2022-11      |
| CEN/TS 1993-1-101 | Eurocode 3: Design of steel structures – Part 1-101: Alternative interaction method for members in bending and compression  | 91.010.30; 91.080.13         | 2022-11      |
| EN 2266-008       | Aerospace series – Cables, electrical, for general purpose – Operating temperatures between -55 °C and 200 °C – Part 008: DRP (pair) DRT (3 cores) DRQ (4 cores) family, multicore UV laser printable jacketed cable – Product standard | 49.060                       | 2022-11      |
| EN 2559           | Aerospace series – Carbon, glass and aramid fibre preimpregnates – Determination of the resin and fibre content and the mass of fibre per unit area   | 49.025.40                    | 2022-11      |
| EN 4828           | Aerospace series – Thermal drift of LED luminaires – Classification and measuring methods   | 17.180.20; 29.140.99; 49.095 | 2022-11      |
| EN 9147           | Aerospace series – Management of unsalvageable items  | 49.020                       | 2022-11      |
| EN 10025-6+A1     | Hot rolled products of structural steels – Part 6: Technical delivery conditions for flat products of high yield strength structural steels in the quenched and tempered condition  | 77.140.10; 77.140.50         | 2022-11      |
| EN 12037          | Wood preservatives – Field test method for determining the relative protective effectiveness of a wood preservative exposed out of ground contact – Horizontal lap-joint method   | 71.100.50                    | 2022-11      |
| EN 12067-2        | Safety and control devices for burners and appliances burning gaseous or liquid fuels – Control functions in electronic systems – Part 2: Fuel/air ratio control/supervision of the electronic type                                     | 23.060.40; 27.060.20         | 2022-11      |
| EN 12098-1        | Energy performance of buildings – Controls for heating systems – Part 1: Control equipment for hot water heating systems – Modules M3-5, 6, 7, 8  | 91.140.10; 97.120            | 2022-11      |
| EN 12098-3        | Energy performance of buildings – Controls for heating systems – Part 3: Control equipment for electrical heating systems – Modules M3-5,6,7,8  | 97.100.10; 97.120            | 2022-11      |
| CEN/TR 12098-6    | Energy performance of buildings – Controls for heating systems – Part 6: Accompanying TR EN 12098-1:2022 – Modules M3-5,6,7,8   | 91.140.10; 97.120            | 2022-11      |
| CEN/TR 12098-7    | Energy performance of buildings – Controls for heating systems – Part 7: Accompanying TR EN 12098-3:2022 – Modules M3-5,6,7,8   | 91.140.10; 97.120            | 2022-11      |
| EN 12177          | Liquid petroleum products – Unleaded petrol – Determination of benzene content by gas chromatography  | 75.160.20                    | 2022-11      |

| Oznaka norme   | Naslov norme   | ICS                          | Datum objave |
|----------------|--|------------------------------|--------------|
| EN 12312-15+A1 | Aircraft ground support equipment – Specific requirements – Part 15: Baggage and equipment tractors  | 49.100                       | 2022-11      |
| EN 12580       | Soil improvers and growing media – Determination of a quantity   | 65.080                       | 2022-11      |
| EN 12896-10    | Public transport – Reference data model – Part 10: Alternative Modes   | 35.240.60                    | 2022-11      |
| EN 12952-3     | Water-tube boilers and auxiliary installations – Part 3: Design and calculation for pressure parts of the boiler   | 27.040                       | 2022-11      |
| EN 13300       | Paints and varnishes – Paints and varnishes for interior walls and ceilings – Classification   | 87.040                       | 2022-11      |
| EN 13796-3+A1  | Safety requirements for cableway installations designed to carry persons – Carriers – Part 3: Fatigue testing  | 45.100                       | 2022-11      |
| EN 14437       | Determination of the uplift resistance of installed clay or concrete tiles for roofing – Roof system test method   | 91.060.20                    | 2022-11      |
| EN 14487-1     | Sprayed concrete – Part 1: Definitions, specifications and conformity  | 01.040.91; 91.100.30         | 2022-11      |
| EN 14700       | Welding consumables – Welding consumables for hard-facing  | 25.160.20                    | 2022-11      |
| EN 15085-3     | Railway applications – Welding of railway vehicles and components – Part 3: Design requirements  | 25.160.10; 45.060.01         | 2022-11      |
| EN 15238       | Soil improvers and growing media – Determination of quantity for materials with particle size greater than 60 mm   | 65.080                       | 2022-11      |
| EN 15269-3     | Extended application of test results for fire resistance and/or smoke control for doorsets, shutter and openable window assemblies, including their elements of building hardware – Part 3: Fire resistance of hinged and pivoted timber doorsets and openable timber framed windows | 13.220.50; 91.060.50         | 2022-11      |
| EN 15531-2     | Public transport – Service interface for real-time information relating to public transport operations – Part 2: Communications infrastructure   | 35.240.60                    | 2022-11      |
| EN 15611+A1    | Railway applications – Braking – Relay valves  | 45.040                       | 2022-11      |
| EN 15969-2     | Tanks for transport of dangerous goods – Digital interface for the data transfer between tank vehicle and with stationary facilities – Part 2: Commercial and logistic data  | 13.300; 23.020.10; 35.240.60 | 2022-11      |
| EN 16329       | Diesel and domestic heating fuels – Determination of cold filter plugging point – Linear cooling bath method   | 75.160.20                    | 2022-11      |
| EN 16602-70-61 | Space product assurance – High-reliability soldering for surface mount, mixed technology and hand-mounted electrical connections   | 25.160.50; 49.140            | 2022-11      |
| EN 16923       | Foodstuffs – Determination of T-2 toxin and HT-2 toxin in cereals and cereal products for infants and young children by SPE clean up and HPLC-MS/MS  | 67.060; 67.230               | 2022-11      |
| EN 17020-1     | Extended application of test results on durability of self-closing for fire resistance and/or smoke control doorsets and openable windows – Part 1: Durability of self-closing of hinged and pivoted steel doorsets  | 13.220.50; 91.060.50         | 2022-11      |
| CEN/TS 17152-3 | Plastics piping systems for non-pressure underground conveyance and storage of non-potable water – Boxes used for infiltration, attenuation and storage systems – Part 3: Conformity assessment scheme   | 23.040.01                    | 2022-11      |
| EN 17534       | Textiles – Physiological effects – Measurement of liquid sweat transport and buffering   | 59.080.30                    | 2022-11      |
| CEN/TS 17553   | Textiles and textile products – Community face coverings – Minimum requirements, methods of testing and use  | 13.340.20                    | 2022-11      |
| EN 17635       | Glass in building – Shatter properties – Requirements and assessment methods   | 81.040.20                    | 2022-11      |
| EN 17637       | Construction products: Assessment of release of dangerous substances – Dose assessment of emitted gamma radiation  | 91.100.01                    | 2022-11      |
| EN 17666       | Maintenance – Maintenance engineering – Requirements   | 03.080.10                    | 2022-11      |
| EN 17669       | Energy Performance Contracts – Minimum requirements  | 27.015                       | 2022-11      |



| Oznaka norme           | Naslov norme  | ICS                          | Datum objave |
|------------------------|---|------------------------------|--------------|
| EN 17672               | Sustainability of construction works – Environmental product declarations – Horizontal rules for business-to-consumer communication   | 91.010.99; 91.040.01         | 2022-11      |
| EN 17736               | Entertainment technology – Specifications for design and manufacture of aluminium stage decks and frames  | 97.200.10                    | 2022-11      |
| EN 17737               | Hardware for furniture – Test and evaluation methods for the corrosion resistance of furniture fittings   | 97.140                       | 2022-11      |
| CEN/TR 17842-1         | Playground equipment for children – Part 1: Replies to requests for interpretation of EN 1176:2017 and its parts (2018-2019)  | 97.200.40                    | 2022-11      |
| CEN/TR 17904           | Cabin air quality on civil aircraft – Chemical compounds  | 49.095                       | 2022-11      |
| CWA 17907              | European Connected Factory Platform for Agile Manufacturing Interoperability (EFPFInterOp)  | 35.240.50                    | 2022-11      |
| CWA 17947              | Urban search and rescue – Guideline for the application of a test method for innovative technologies to detect victims in debris  | 13.200                       | 2022-11      |
| CEN/TS 19101           | Design of fibre-polymer composite structures  | 91.010.30                    | 2022-11      |
| EN 50187               | High-voltage switchgear and controlgear – Gas-filled compartments of AC switchgear and controlgear with rated voltages above 1 kV up to and including 52 kV   | 29.130.99                    | 2022-11      |
| EN 50525-1/A1          | Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 1: General requirements   | 29.060.20                    | 2022-11      |
| EN IEC 60071-12        | Insulation co-ordination – Part 12: Application guidelines for LCC HVDC converter stations (IEC 60071-12:2022)  | 29.080.30                    | 2022-11      |
| EN 60320-3/A2          | Appliance couplers for household and similar general purposes – Part 3: Standard sheets and gauges (IEC 60320-3:2014/AMD2:2022)   | 29.120.30                    | 2022-11      |
| EN 60335-2-8/A2        | Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances (IEC 60335-2-8:2012/A2:2018)   | 13.120; 97.100.10; 97.170    | 2022-11      |
| EN 60335-2-8/A11       | Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances  | 13.120; 97.170               | 2022-11      |
| EN 60335-2-8/A12       | Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances  | 13.120; 97.170               | 2022-11      |
| EN IEC 60738-1         | Thermistors – Directly heated positive temperature coefficient – Part 1: Generic specification (IEC 60738-1:2022)   | 31.040.30                    | 2022-11      |
| EN IEC 60749-37        | Semiconductor devices – Mechanical and climatic test methods – Part 37: Board level drop test method using an accelerometer (IEC 60749-37:2022)   | 31.080.01                    | 2022-11      |
| EN IEC 61010-2-101     | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-101: Safety requirements for in vitro diagnostic (IVD) medical equipment (IEC 61010-2-101:2018)                  | 11.040.55; 11.100.10; 19.080 | 2022-11      |
| EN IEC 61010-2-101/A11 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-101: Safety requirements for in vitro diagnostic (IVD) medical equipment   | 11.040.55; 11.100.10; 19.080 | 2022-11      |
| EN IEC 61169-4         | Radio-frequency connectors – Part 4: RF coaxial connectors with inner diameter of outer conductor 16 mm (0,63 in) with screw lock – Characteristic impedance 50 $\Omega$ (type 7-16) (IEC 61169-4:2008)             | 29.120.10; 33.120.30         | 2022-11      |
| EN IEC 62196-1         | Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 1: General requirements (IEC 62196-1:2022)   | 29.120.30; 43.040.10; 43.120 | 2022-11      |
| EN IEC 62196-2         | Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 2: Dimensional compatibility requirements for AC pin and contact-tube accessories (IEC 62196-2:2022) | 29.120.30; 43.040.10; 43.120 | 2022-11      |

| Oznaka norme     | Naslov norme  | ICS   | Datum objave |
|------------------|---|---|--------------|
| EN IEC 62196-3   | Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 3: Dimensional compatibility requirements for DC and AC/DC pin and contact- tube vehicle couplers (IEC 62196-3:2022)                         | 29.120.30; 43.040.10; 43.120                    | 2022-11      |
| EN IEC 62232     | Determination of RF field strength, power density and SAR in the vicinity of base stations for the purpose of evaluating human exposure (IEC 62232:2022)  | 13.280; 17.240                                  | 2022-11      |
| EN IEC 62391-1   | Fixed electric double-layer capacitors for use in electric and electronic equipment – Part 1: Generic specification (IEC 62391-1:2022)  | 31.060.10; 31.060.99                            | 2022-11      |
| EN IEC 62680-4-1 | Universal Serial Bus interfaces for data and power – Part 4-1: Universal Serial Bus 4 (tm) Specification (IEC 62680-4-1:2022)   | 29.200; 33.120.20; 35.200                       | 2022-11      |
| EN IEC 62714-2   | Engineering data exchange format for use in industrial automation systems engineering – Automation markup language – Part 2: Semantics libraries (IEC 62714-2:2022)   | 25.040.40; 35.060; 35.240.50                    | 2022-11      |
| EN IEC 62947     | Electrically operated spray seats for household and similar use – Methods for measuring the performance – General test methods of spray seats (IEC 62947:2022)  | 91.140.70; 97.180                               | 2022-11      |
| EN IEC 62980     | Parasitic communication protocol for radio-frequency wireless power transmission (IEC 62980:2022)   | 29.240.99; 33.040.40; 35.110                    | 2022-11      |
| EN IEC 63119-2   | Information exchange for electric vehicle charging roaming service – Part 2: Use cases (IEC 63119-2:2022)   | 35.240.60; 43.040.15; 43.120                    | 2022-11      |
| EN IEC 63207     | Measurement methods of blue light characteristics and related optical performance for visual display terminals (IEC 63207:2022)   | 17.180.20; 31.120; 33.160.60; 33.160.99; 35.180 | 2022-11      |
| EN IEC 63254     | Management and interfaces for WPT – Device-to-device wireless charging (D2DWC) for mobile devices with wireless power TX/RX module (IEC 63254:2022)   | 29.200; 29.240.99; 33.160.01                    | 2022-11      |
| EN IEC 63286     | Flexible organic light emitting diode (OLED) panels for general lighting – Performance requirements (IEC 63286:2022)  | 29.140.99; 31.260                               | 2022-11      |
| EN IEC 63356-1   | LED light source characteristics – Part 1: Data sheets (IEC 63356-1:2022)   | 29.140.99                                       | 2022-11      |
| EN IEC 63356-2   | LED light source characteristics – Part 2: Design parameters and values (IEC 63356-2:2022)  | 29.140.99                                       | 2022-11      |
| EN IEC 63365     | Industrial process measurement, control and automation – Digital nameplate (IEC 63365:2022)   | 33.080; 35.040.50                               | 2022-11      |
| EN ISO 128-2     | Technical product documentation (TPD) – General principles of representation – Part 2: Basic conventions for lines (ISO 128-2:2022)   | 01.100.01                                       | 2022-11      |
| EN ISO 187       | Paper, board and pulps – Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples (ISO 187:2022)  | 85.040; 85.060                                  | 2022-11      |
| EN ISO 306       | Plastics – Thermoplastic materials – Determination of Vicat softening temperature (VST) (ISO 306:2022)  | 83.080.20                                       | 2022-11      |
| EN ISO 1179-2    | Connections for general use and fluid power – Ports and stud ends with ISO 228-1 threads with elastomeric or metal-to-metal sealing – Part 2: Heavy-duty (S series) and light-duty (L series) stud ends with elastomeric sealing (type E) (ISO 1179-2:2022) | 23.100.40                                       | 2022-11      |
| EN ISO 1522      | Paints and varnishes – Pendulum damping test (ISO 1522:2022)  | 87.040  | 2022-11      |
| EN ISO 3679      | Determination of flash point – Method for flash no-flash and flash point by small scale closed cup tester (ISO 3679:2022)   | 75.080; 87.040                                  | 2022-11      |
| EN ISO 4530      | Vitreous and porcelain enamelled manufactured articles – Determination of resistance to heat (ISO 4530:2022)  | 25.220.50                                       | 2022-11      |
| EN ISO 4628-5    | Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 5: Assessment of degree of flaking (ISO 4628-5:2022)                                   | 87.040  | 2022-11      |

| Oznaka norme     | Naslov norme  | ICS       | Datum objave |
|------------------|---|-----------|--------------|
| EN ISO 5167-3    | Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full – Part 3: Nozzles and Venturi nozzles (ISO 5167-3:2022)  | 17.120.10 | 2022-11      |
| EN ISO 5167-5    | Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full – Part 5: Cone meters (ISO 5167-5:2022)  | 17.120.10 | 2022-11      |
| EN ISO 5167-6    | Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full – Part 6: Wedge meters (ISO 5167-6:2022)   | 17.120.10 | 2022-11      |
| CEN ISO/TR 5602  | Sources of error in the use of electrochemical impedance spectroscopy for the investigation of coatings and other materials (ISO/TR 5602:2021)  | 87.040    | 2022-11      |
| CEN ISO/TS 5798  | In vitro diagnostic test systems – Requirements and recommendations for detection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) by nucleic acid amplification methods (ISO/TS 5798:2022)                                      | 11.100.01 | 2022-11      |
| EN ISO 6769      | Vitreous and porcelain enamels – Determination of surface scratch hardness according to the Mohs scale (ISO 6769:2022)  | 25.220.50 | 2022-11      |
| EN ISO 7278-2    | Petroleum measurement systems – Part 2: Pipe prover design, calibration and operation (ISO 7278-2:2022)   | 75.180.30 | 2022-11      |
| EN ISO 7301      | Rice – Specification (ISO 7301:2021)  | 67.060    | 2022-11      |
| EN ISO 7623      | Steel cord conveyor belts – Cord-to-coating bond test – Initial test and after thermal treatment (ISO 7623:2022)  | 53.040.20 | 2022-11      |
| EN ISO 7784-3    | Paints and varnishes – Determination of resistance to abrasion – Part 3: Method with abrasive-paper covered wheel and linearly reciprocating test specimen (ISO 7784-3:2022)  | 87.040    | 2022-11      |
| EN ISO 7906      | Leather – Tests for colour fastness – General principles of testing (ISO 7906:2022)   | 59.140.30 | 2022-11      |
| EN ISO 7963      | Non-destructive testing – Ultrasonic testing – Specification for calibration block No. 2 (ISO 7963:2022)  | 25.160.40 | 2022-11      |
| EN ISO 8872      | Aluminium caps and aluminium/plastic caps for infusion bottles and injection vials – General requirements and test methods (ISO 8872:2022)  | 11.040.20 | 2022-11      |
| EN ISO 9227      | Corrosion tests in artificial atmospheres – Salt spray tests (ISO 9227:2022)  | 77.060    | 2022-11      |
| EN ISO 10062     | Corrosion tests in artificial atmosphere at very low concentrations of polluting gas(es) (ISO 10062:2022)   | 77.060    | 2022-11      |
| EN ISO 10497     | Testing of valves – Fire type-testing requirements (ISO 10497:2022)   | 23.060.01 | 2022-11      |
| EN ISO 10993-2   | Biological evaluation of medical devices – Part 2: Animal welfare requirements (ISO 10993-2:2022)   | 11.100.20 | 2022-11      |
| EN ISO 11127-6   | Preparation of steel substrates before application of paints and related products – Test methods for non-metallic blast-cleaning abrasives – Part 6: Determination of water-soluble contaminants by conductivity measurement (ISO 11127-6:2022) | 25.220.10 | 2022-11      |
| EN ISO 11127-7   | Preparation of steel substrates before application of paints and related products – Test methods for non-metallic blast-cleaning abrasives – Part 7: Determination of water-soluble chlorides (ISO 11127-7:2022)                                | 25.220.10 | 2022-11      |
| EN ISO 11140-6   | Sterilization of health care products – Chemical indicators – Part 6: Type 2 indicators and process challenge devices for use in performance testing of small steam sterilizers (ISO 11140-6:2022)  | 11.080.01 | 2022-11      |
| CEN ISO/TR 11594 | Best practices for the creation/evaluation of fingerprint analysis in accordance with the ISO 28199 series (ISO/TR 11594:2022)  | 87.040    | 2022-11      |
| EN ISO 11644     | Leather – Test for adhesion of finish (ISO 11644:2022)  | 59.140.30 | 2022-11      |

| Oznaka norme       | Naslov norme  | ICS                  | Datum objave |
|--------------------|---|----------------------|--------------|
| EN ISO 12153       | Welding consumables – Tubular-cored electrodes for gas-shielded and non-gas-shielded metal arc welding of nickel and nickel alloys – Classification (ISO 12153:2022)  | 25.160.20            | 2022-11      |
| EN ISO 13119       | Health informatics – Clinical knowledge resources – Metadata (ISO 13119:2022)   | 35.240.80            | 2022-11      |
| EN ISO 13131       | Health informatics – Telehealth services – Quality planning guidelines (ISO 13131:2021)   | 35.240.80            | 2022-11      |
| EN ISO 13704       | Petroleum, petrochemical and natural gas industries – Calculation of heater-tube thickness in petroleum refineries (ISO 13704:2022)   | 75.180.20            | 2022-11      |
| EN ISO 13807       | Vitreous and porcelain enamels – Determination of crack formation temperature in the thermal shock testing of enamels for the chemical industry (ISO 13807:2022)  | 25.220.50            | 2022-11      |
| EN ISO 14284       | Steel and iron – Sampling and preparation of samples for the determination of chemical composition (ISO 14284:2022)   | 77.080.01            | 2022-11      |
| EN ISO 14571       | Metallic coatings on non-metallic basis materials – Measurement of coating thickness – Micro-resistivity method (ISO 14571:2020)  | 25.220.40            | 2022-11      |
| EN ISO 15083/A1    | Small craft – Bilge-pumping systems – Amendment 1 (ISO 15083:2020/Amd 1:2022)   | 47.080               | 2022-11      |
| EN ISO 15615       | Gas welding equipment – Acetylene manifold systems for welding, cutting and allied processes – Safety requirements in high-pressure devices (ISO 15615:2022)  | 25.160.30            | 2022-11      |
| EN ISO 16866       | Metallic and other inorganic coatings – Simultaneous thickness and electrode potential determination of individual layers in multilayer nickel deposits (STEP test) (ISO 16866:2020)  | 25.220.40            | 2022-11      |
| EN ISO 18122       | Solid biofuels – Determination of ash content (ISO 18122:2022)  | 27.190               | 2022-11      |
| EN ISO 18314-3     | Analytical colorimetry – Part 3: Special indices (ISO 18314-3:2022)   | 87.060.10            | 2022-11      |
| EN ISO 19410-1     | Footwear sizing – Inshoe measurement – Part 1: Shoe length (ISO 19410-1:2022)   | 61.060               | 2022-11      |
| EN ISO 20976-2     | Microbiology of the food chain – Requirements and guidelines for conducting challenge tests of food and feed products – Part 2: Challenge tests to study inactivation potential and kinetic parameters (ISO 20976-2:2022)                     | 07.100.30            | 2022-11      |
| CEN ISO/TS 21719-2 | Electronic fee collection – Personalization of on-board equipment (OBE) – Part 2: Using dedicated short-range communication (ISO/TS 21719-2:2022)   | 03.220.20; 35.240.60 | 2022-11      |
| EN ISO 21813       | Fine ceramics (advanced ceramics, advanced technical ceramics) – Methods for chemical analysis of high purity barium titanate powders (ISO 21813:2019)  | 81.060.30            | 2022-11      |
| EN ISO 21814       | Fine ceramics (advanced ceramics, advanced technical ceramics) – Methods for chemical analysis of aluminium nitride powders (ISO 21814:2019)  | 81.060.30            | 2022-11      |
| EN ISO 21821       | Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of densification properties of ceramic powders on natural sintering (ISO 21821:2019)   | 81.060.30            | 2022-11      |
| EN ISO 22361       | Security and resilience – Crisis management – Guidelines (ISO 22361:2022)   | 03.100.01            | 2022-11      |
| EN ISO 22753       | Molecular biomarker analysis – Method for the statistical evaluation of analytical results obtained in testing sub-sampled groups of genetically modified seeds and grains – General requirements (ISO 22753:2021, Corrected version 2022-11) | 67.050               | 2022-11      |
| EN ISO 23131       | Ellipsometry – Principles (ISO 23131:2021)  | 17.020               | 2022-11      |
| EN ISO 23216       | Carbon based films – Determination of optical properties of amorphous carbon films by spectroscopic ellipsometry (ISO 23216:2021)   | 25.220.99            | 2022-11      |

| Oznaka norme           | Naslov norme   | ICS                          | Datum objave |
|------------------------|--|------------------------------|--------------|
| EN ISO 23659           | Sports and recreational facilities – Trampoline parks – Safety requirements (ISO 23659:2022)   | 97.220.10                    | 2022-11      |
| EN ISO 24197           | Vapour products – Determination of e-liquid vaporised mass and aerosol collected mass (ISO 24197:2022)   | 65.160                       | 2022-11      |
| EN ISO 25197/A1        | Small craft – Electrical/electronic control systems for steering, shift and throttle – Amendment 1 (ISO 25197:2020/Amd 1:2022)   | 47.080                       | 2022-11      |
| EN ISO/IEC 27002       | Information security, cybersecurity and privacy protection – Information security controls (ISO/IEC 27002:2022)  | 35.030                       | 2022-11      |
| CEN ISO/IEC/TS 27006-2 | Requirements for bodies providing audit and certification of information security management systems – Part 2: Privacy information management systems (ISO/IEC TS 27006-2:2021)  | 03.120.20; 35.030            | 2022-11      |
| EN ISO 28765           | Vitreous and porcelain enamels – Design of bolted steel tanks for the storage or treatment of water or municipal or industrial effluents and sludges (ISO 28765:2022)  | 25.220.50                    | 2022-11      |
| EN ISO 29466           | Thermal insulating products for building applications – Determination of thickness (ISO 29466:2022)  | 91.100.60                    | 2022-11      |
| EN ISO 29469           | Thermal insulating products for building applications – Determination of compression behaviour (ISO 29469:2022)  | 91.100.60                    | 2022-11      |
| EN ISO 29766           | Thermal insulating products for building applications – Determination of tensile strength parallel to faces (ISO 29766:2022)   | 91.100.60                    | 2022-11      |
| EN ISO 37101           | Sustainable development in communities – Management system for sustainable development – Requirements with guidance for use (ISO 37101:2016)   | 03.100.70; 13.020.20         | 2022-11      |
| EN ISO/ASTM 52909      | Additive manufacturing – Finished part properties – Orientation and location dependence of mechanical properties for metal powder bed fusion (ISO/ASTM 52909:2022)   | 25.030                       | 2022-11      |
| EN ISO 80369-3/A1      | Small-bore connectors for liquids and gases in healthcare applications – Part 3: Connectors for enteral applications – Amendment 1 (ISO 80369-3:2016/Amd 1:2019)   | 11.040.25                    | 2022-11      |
| HD 60269-2/A1          | 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 60269-2:2013/A1:2016)           | 29.120.50                    | 2022-11      |
| HD 60269-3/A2          | Low-voltage fuses – Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) – Examples of standardized systems of fuses A to F (IEC 60269-3:2010/A2:2019) | 29.120.50                    | 2022-11      |
| HD 60364-5-52/A12      | Low-voltage electrical installations – Part 5-52: Selection and erection of electrical equipment – Wiring systems  | 13.260; 29.120.50; 91.140.50 | 2022-11      |
| HD 60364-5-54/A1       | Low-voltage electrical installations – Part 5-54: Selection and erection of electrical equipment – Earthing arrangements and protective conductors (IEC 60364-5-54:2011/A1:2021)   | 29.020; 91.140.50            | 2022-11      |

## Europska normizacija (CENELEC)

| Oznaka norme           | Naslov norme   | ICS                          | Datum objave |
|------------------------|--|------------------------------|--------------|
| EN 16602-70-61         | Space product assurance – High-reliability soldering for surface mount, mixed technology and hand-mounted electrical connections   | 25.160.50; 49.140            | 2022-11      |
| EN 17669               | Energy Performance Contracts – Minimum requirements  | 27.015                       | 2022-11      |
| EN 50187               | High-voltage switchgear and controlgear – Gas-filled compartments of AC switchgear and controlgear with rated voltages above 1 kV up to and including 52 kV  | 29.130.99                    | 2022-11      |
| EN 50525-1/A1          | Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 1: General requirements  | 29.060.20                    | 2022-11      |
| EN IEC 60071-12        | Insulation co-ordination – Part 12: Application guidelines for LCC HVDC converter stations (IEC 60071-12:2022)   | 29.080.30                    | 2022-11      |
| EN 60320-3/A2          | Appliance couplers for household and similar general purposes – Part 3: Standard sheets and gauges (IEC 60320-3:2014/AMD2:2022)  | 29.120.30                    | 2022-11      |
| EN 60335-2-8/A2        | Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances (IEC 60335-2-8:2012/A2:2018)  | 13.120; 97.100.10; 97.170    | 2022-11      |
| EN 60335-2-8/A11       | Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances   | 13.120; 97.170               | 2022-11      |
| EN 60335-2-8/A12       | Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances   | 13.120; 97.170               | 2022-11      |
| EN IEC 60738-1         | Thermistors – Directly heated positive temperature coefficient – Part 1: Generic specification (IEC 60738-1:2022)  | 31.040.30                    | 2022-11      |
| EN IEC 60749-37        | Semiconductor devices – Mechanical and climatic test methods – Part 37: Board level drop test method using an accelerometer (IEC 60749-37:2022)  | 31.080.01                    | 2022-11      |
| EN IEC 61010-2-101     | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-101: Safety requirements for in vitro diagnostic (IVD) medical equipment (IEC 61010-2-101:2018)                                 | 11.040.55; 11.100.10; 19.080 | 2022-11      |
| EN IEC 61010-2-101/A11 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-101: Safety requirements for in vitro diagnostic (IVD) medical equipment  | 11.040.55; 11.100.10; 19.080 | 2022-11      |
| EN IEC 61169-4         | Radio-frequency connectors – Part 4: RF coaxial connectors with inner diameter of outer conductor 16 mm (0,63 in) with screw lock – Characteristic impedance 50 Ω (type 7-16) (IEC 61169-4:2008)                                   | 29.120.10; 33.120.30         | 2022-11      |
| EN IEC 62196-1         | Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 1: General requirements (IEC 62196-1:2022)  | 29.120.30; 43.040.10; 43.120 | 2022-11      |
| EN IEC 62196-2         | Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 2: Dimensional compatibility requirements for AC pin and contact-tube accessories (IEC 62196-2:2022)                | 29.120.30; 43.040.10; 43.120 | 2022-11      |
| EN IEC 62196-3         | Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 3: Dimensional compatibility requirements for DC and AC/DC pin and contact-tube vehicle couplers (IEC 62196-3:2022) | 29.120.30; 43.040.10; 43.120 | 2022-11      |
| EN IEC 62232           | Determination of RF field strength, power density and SAR in the vicinity of base stations for the purpose of evaluating human exposure (IEC 62232:2022)   | 13.280; 17.240               | 2022-11      |
| EN IEC 62391-1         | Fixed electric double-layer capacitors for use in electric and electronic equipment – Part 1: Generic specification (IEC 62391-1:2022)   | 31.060.10; 31.060.99         | 2022-11      |
| EN IEC 62680-4-1       | Universal Serial Bus interfaces for data and power – Part 4-1: Universal Serial Bus 4 (tm) Specification (IEC 62680-4-1:2022)  | 29.200; 33.120.20; 35.200    | 2022-11      |

| Oznaka norme           | Naslov norme   | ICS   | Datum objave |
|------------------------|--|---|--------------|
| EN IEC 62714-2         | Engineering data exchange format for use in industrial automation systems engineering – Automation markup language – Part 2: Semantics libraries (IEC 62714-2:2022)  | 25.040.40; 35.060;<br>35.240.50                       | 2022-11      |
| EN IEC 62947           | Electrically operated spray seats for household and similar use – Methods for measuring the performance – General test methods of spray seats (IEC 62947:2022)   | 91.140.70; 97.180                                     | 2022-11      |
| EN IEC 62980           | Parasitic communication protocol for radio-frequency wireless power transmission (IEC 62980:2022)  | 29.240.99; 33.040.40;<br>35.110                       | 2022-11      |
| EN IEC 63119-2         | Information exchange for electric vehicle charging roaming service – Part 2: Use cases (IEC 63119-2:2022)  | 35.240.60; 43.040.15;<br>43.120                       | 2022-11      |
| EN IEC 63207           | Measurement methods of blue light characteristics and related optical performance for visual display terminals (IEC 63207:2022)  | 17.180.20; 31.120;<br>33.160.60; 33.160.99;<br>35.180 | 2022-11      |
| EN IEC 63254           | Management and interfaces for WPT – Device-to-device wireless charging (D2DWC) for mobile devices with wireless power TX/RX module (IEC 63254:2022)  | 29.200; 29.240.99;<br>33.160.01                       | 2022-11      |
| EN IEC 63286           | Flexible organic light emitting diode (OLED) panels for general lighting – Performance requirements (IEC 63286:2022)   | 29.140.99; 31.260                                     | 2022-11      |
| EN IEC 63356-1         | LED light source characteristics – Part 1: Data sheets (IEC 63356-1:2022)  | 29.140.99   | 2022-11      |
| EN IEC 63356-2         | LED light source characteristics – Part 2: Design parameters and values (IEC 63356-2:2022)   | 29.140.99   | 2022-11      |
| EN IEC 63365           | Industrial process measurement, control and automation – Digital nameplate (IEC 63365:2022)  | 33.080; 35.040.50                                     | 2022-11      |
| EN ISO/IEC 27002       | Information security, cybersecurity and privacy protection – Information security controls (ISO/IEC 27002:2022)  | 35.030  | 2022-11      |
| CEN ISO/IEC/TS 27006-2 | Requirements for bodies providing audit and certification of information security management systems – Part 2: Privacy information management systems (ISO/IEC TS 27006-2:2021)  | 03.120.20; 35.030                                     | 2022-11      |
| EN ISO 80369-3/A1      | Small-bore connectors for liquids and gases in healthcare applications – Part 3: Connectors for enteral applications – Amendment 1 (ISO 80369-3:2016/Amd 1:2019)   | 11.040.25   | 2022-11      |
| HD 60269-2/A1          | 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 60269-2:2013/A1:2016)           | 29.120.50   | 2022-11      |
| HD 60269-3/A2          | Low-voltage fuses – Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) – Examples of standardized systems of fuses A to F (IEC 60269-3:2010/A2:2019) | 29.120.50   | 2022-11      |
| HD 60364-5-52/A12      | Low-voltage electrical installations – Part 5-52: Selection and erection of electrical equipment – Wiring systems  | 13.260; 29.120.50;<br>91.140.50                       | 2022-11      |
| HD 60364-5-54/A1       | Low-voltage electrical installations – Part 5-54: Selection and erection of electrical equipment – Earthing arrangements and protective conductors (IEC 60364-5-54:2011/A1:2021)   | 29.020; 91.140.50                                     | 2022-11      |

## Europska normizacija (ETSI)

| Oznaka norme                | Naslov norme   | ICS                    | Datum objave |
|-----------------------------|--|------------------------|--------------|
| ETSI SR 000314 V 2.32.1     | Intellectual Property Rights (IPRs) – Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards  | 01.120; 03.140; 33.020 | 2022-11      |
| ETSI TS 101220 V 17.0.1     | Smart Cards – ETSI numbering system for telecommunication application providers (Release 17)   | 33.070.50; 35.240.15   | 2022-11      |
| ETSI TS 102731 V 2.0.0      | Intelligent Transport Systems (ITS) – Security – Security Services and Architecture – Release 2  | 35.240.60              | 2022-11      |
| ETSI TS 103141 V 2.2.1      | Intelligent Transport Systems (ITS) – Facilities layer function – Multi-Channel Operation (MCO) for Cooperative ITS (C-ITS) – Release 2                              | 35.240.60              | 2022-11      |
| ETSI TS 103248 V 2.2.1      | Intelligent Transport Systems (ITS) – GeoNetworking – Port Numbers for the Basic Transport Protocol (BTP) – Release 2  | 35.240.60              | 2022-11      |
| ETSI TR 103300-1 V 2.3.1    | Intelligent Transport Systems (ITS) – Vulnerable Road Users (VRU) awareness – Part 1: Use Cases definition – Release 2   | 35.240.60              | 2022-11      |
| ETSI TR 103305-4 V 3.1.1    | Cyber Security (CYBER) – Critical Security Controls for Effective Cyber Defence – Part 4: Facilitation Mechanisms  | 33.040.99; 35.030      | 2022-11      |
| ETSI TS 103481 V 11.4.0     | Smart Cards – Test specification for the Remote APDU structure for UICC based applications – UICC features (Release 11)  | 35.240.15              | 2022-11      |
| ETSI TS 103666-1 V 15.10.0  | Smart Secure Platform (SSP) – Part 1: General characteristics (Release 15)   | 35.240.15              | 2022-11      |
| ETSI TS 103666-1 V 16.6.0   | Smart Secure Platform (SSP) – Part 1: General characteristics (Release 16)   | 35.240.15              | 2022-11      |
| ETSI TS 103666-1 V 17.1.0   | Smart Secure Platform (SSP) – Part 1: General characteristics (Release 17)   | 35.240.15              | 2022-11      |
| ETSI TS 103695 V 2.1.1      | Intelligent Transport Systems (ITS) – Access layer specification in the 5 GHz frequency band – Multi-Channel Operation (MCO) for Cooperative ITS (C-ITS) – Release 2 | 35.240.60              | 2022-11      |
| ETSI TS 103836-5-1 V 2.0.0  | Intelligent Transport Systems (ITS) – Vehicular Communications – GeoNetworking – Part 5: Transport Protocols – Sub-part 1: Basic Transport Protocol – Release 2      | 35.240.60              | 2022-11      |
| ETSI TS 103999-1 V 15.1.0   | Smart Secure Platform (SSP) – Part 1: Test Specification, general characteristics (Release 15)   | 35.240.15              | 2022-11      |
| ETSI TS 119322 V 1.1.1      | Electronic Signatures and Infrastructure (ESI) – Schema for machine-readable cryptographic algorithms, and cipher suites catalogues                                  | 33.040.01              | 2022-11      |
| ETSI TS 119495 V 1.6.1      | Electronic Signatures and Infrastructures (ESI) – Sector Specific Requirements – Certificate Profiles and TSP Policy Requirements for Open Banking                   | 33.040.01              | 2022-11      |
| ETSI TS 138521-2 V 17.0.1   | 5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 2: Range 2 standalone (3GPP TS 38.521-2 version 17.0.1 Release 17) | 33.070.99              | 2022-11      |
| ETSI TS 138533 V 17.4.0     | 5G – NR – User Equipment (UE) conformance specification – Radio Resource Management (RRM) (3GPP TS 38.533 version 17.4.0 Release 17)                                 | 33.070.50              | 2022-11      |
| ETSI GR CDM 001 V 2.1.1     | Common Information Sharing Environment Service and Data Model (CDM) – Use Cases definition – Release 2   | 03.220.40; 35.240.60   | 2022-11      |
| ETSI GR MEC-DEC 042 V 3.1.1 | Multi-access Edge Computing (MEC) – Guidelines on Interoperability testing   | 33.070.99; 35.110      | 2022-11      |
| ETSI GR MEC 038 V 3.1.1     | Multi-access Edge Computing (MEC) – MEC in Park Enterprises deployment scenario  | 33.070.99; 35.110      | 2022-11      |
| ETSI GS NFV-IFA 007 V 3.7.1 | Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Or-Vnfm reference point – Interface and Information Model Specification            | 33.040.40; 35.110      | 2022-11      |
| ETSI GS NIN 005 V 1.1.1     | Non-IP Networking (NIN) – Signalling messages and protocols  | 35.110                 | 2022-11      |
| EN 300132-1 V 2.2.1         | Environmental Engineering (EE) – Power supply interface at the input to Information and Communication Technology (ICT) equipment – Part 1: Alternating Current (AC)  | 33.050.01              | 2022-11      |
| EN 300176-1 V 2.4.1         | Digital Enhanced Cordless Telecommunications (DECT) – Test specification – Part 1: Radio   | 33.070.30              | 2022-11      |



## Međunarodna normizacija (ISO)

| Oznaka norme     | Naslov norme  | ICS                                | Datum objave |
|------------------|---|------------------------------------|--------------|
| IEC 80000-6      | Quantities and units – Part 6: Electromagnetism   | 01.040.29; 01.060;<br>17.220.01    | 2022-11      |
| IWA 42           | Net zero guidelines   | 13.020.40                          | 2022-11      |
| ISO 306          | Plastics – Thermoplastic materials – Determination of Vicat softening temperature (VST)   | 83.080.20                          | 2022-11      |
| ISO 362-1        | Acoustics – Engineering method for measurement of noise emitted by accelerating road vehicles – Part 1: M and N categories  | 17.140.30; 43.020                  | 2022-11      |
| ISO 404 AMD 1    | Steel and steel products – General technical delivery requirements; Amendment 1   | 77.080.20; 77.140.01               | 2022-11      |
| ISO 923          | Coal – Density separation equipment for coal – Performance evaluation   | 73.120                             | 2022-11      |
| ISO 1151-8       | Flight dynamics – Vocabulary – Part 8: Dynamic behaviour of aircraft  | 01.060; 49.020                     | 2022-11      |
| ISO 1179-2       | Connections for general use and fluid power – Ports and stud ends with ISO 228-1 threads with elastomeric or metal-to-metal sealing – Part 2: Heavy-duty (S series) and light-duty (L series) stud ends with elastomeric sealing (type E) | 23.100.40                          | 2022-11      |
| ISO 1522         | Paints and varnishes – Pendulum damping test  | 87.040                             | 2022-11      |
| ISO 3037         | Corrugated fibreboard – Determination of edgewise crush resistance (non-waxed edge method)  | 85.080.30                          | 2022-11      |
| ISO 3079         | Two-electrode method using acetic acid to measure pitting potential of aluminium and aluminium alloys in chloride solutions   | 77.060                             | 2022-11      |
| ISO 3163         | Adventure tourism – Vocabulary  | 01.040.03; 03.080.30;<br>03.200.10 | 2022-11      |
| ISO 3600         | Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Operator's manuals – Content and format   | 65.060.01                          | 2022-11      |
| ISO 3679         | Determination of flash point – Method for flash no-flash and flash point by small scale closed cup tester   | 75.080; 87.040                     | 2022-11      |
| ISO 4437-4       | Plastics piping systems for the supply of gaseous fuels – Polyethylene (PE) – Part 4: Valves  | 75.200; 83.140.30                  | 2022-11      |
| ISO 4628-5       | Paints and varnishes – Evaluation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 5: Assessment of degree of flaking  | 87.040                             | 2022-11      |
| ISO 4698         | Iron ore pellets for blast furnace feedstocks – Determination of the free-swelling index  | 73.060.10                          | 2022-11      |
| ISO 4754         | Traditional Chinese medicine – Fermented Cordyceps powder   | 11.120.10                          | 2022-11      |
| ISO 4769         | Hardware for furniture – Strength and durability of hinges and their components – Hinges pivoting on a vertical axis  | 97.140                             | 2022-11      |
| ISO 5149-4       | Refrigerating systems and heat pumps – Safety and environmental requirements – Part 4: Operation, maintenance, repair and recovery  | 27.080; 27.200                     | 2022-11      |
| ISO 5431         | Leather – Wet blue goat skins – Specification   | 59.140.30                          | 2022-11      |
| ISO 5432         | Leather – Wet blue sheep skins – Specification  | 59.140.30                          | 2022-11      |
| ISO 5433         | Leather – Bovine wet blue – Specification   | 59.140.30                          | 2022-11      |
| ISO/TS 5568      | Health informatics – Traditional Chinese medicine – Labelling metadata of human biological sample information   | 35.240.80                          | 2022-11      |
| ISO/TS 5594      | Soil and water quality – Guidance and requirements for designing an interlaboratory trial for validation of biotests  | 13.060.70; 13.080.30               | 2022-11      |
| ISO 5667-26      | Water quality – Sampling – Part 26: Guidance on sampling for the parameters of the oceanic carbon dioxide system  | 13.060.45                          | 2022-11      |
| ISO 6469-1 AMD 1 | Electrically propelled road vehicles – Safety specifications – Part 1: Rechargeable energy storage system (RESS) – Amendment 1: Safety management of thermal propagation  | 43.120                             | 2022-11      |

| Oznaka norme         | Naslov norme  | ICS                  | Datum objave |
|----------------------|---|----------------------|--------------|
| ISO 7097-2           | Nuclear fuel technology – Determination of uranium in solutions, uranium hexafluoride and solids – Part 2: Iron(II) reduction/cerium(IV) oxidation titrimetric method                         | 27.120.30            | 2022-11      |
| ISO 7278-2           | Petroleum measurement systems – Part 2: Pipe prover design, calibration and operation   | 75.180.30            | 2022-11      |
| ISO 7623             | Steel cord conveyor belts – Cord-to-coating bond test – Initial test and after thermal treatment  | 53.040.20            | 2022-11      |
| ISO 8872             | Aluminium caps and aluminium/plastic caps for infusion bottles and injection vials – General requirements and test methods  | 11.040.20            | 2022-11      |
| ISO 9094             | Small craft – Fire protection   | 47.080               | 2022-11      |
| ISO 9227             | Corrosion tests in artificial atmospheres – Salt spray tests  | 77.060               | 2022-11      |
| ISO 9277             | Determination of the specific surface area of solids by gas adsorption – BET method   | 19.120               | 2022-11      |
| ISO 10062            | Corrosion tests in artificial atmosphere at very low concentrations of polluting gas(es)  | 77.060               | 2022-11      |
| ISO 10088            | Small craft – Permanently installed fuel systems  | 47.080               | 2022-11      |
| ISO 10240            | Small craft – Owner's manual  | 47.080               | 2022-11      |
| ISO 10447            | Resistance welding – Testing of welds – Peel and chisel testing of resistance spot and projection welds   | 25.160.40            | 2022-11      |
| ISO 10993-2          | Biological evaluation of medical devices – Part 2: Animal welfare requirements  | 11.100.20            | 2022-11      |
| ISO 11127-7          | Preparation of steel substrates before application of paints and related products – Test methods for non-metallic blast-cleaning abrasives – Part 7: Determination of water-soluble chlorides | 25.220.10            | 2022-11      |
| ISO 11140-6          | Sterilization of health care products – Chemical indicators – Part 6: Type 2 indicators and process challenge devices for use in performance testing of small steam sterilizers               | 11.080.01            | 2022-11      |
| ISO 11382            | Optics and photonics – Optical materials and components – Characterization of optical materials used in the infrared spectral range from 0,78 µm to 25 µm                                     | 37.020               | 2022-11      |
| ISO 11745            | Brazing for aerospace applications – Qualification test for brazers and brazing operators – Brazing of metallic components  | 25.160.01            | 2022-11      |
| ISO 12604-3          | Aircraft ground handling – Checked baggage – Part 3: Workstation ergonomics   | 13.180; 49.100       | 2022-11      |
| ISO 13165-1          | Water quality – Radium-226 – Part 1: Test method using liquid scintillation counting  | 13.060.60; 17.240    | 2022-11      |
| ISO/TS 14074         | Environmental management – Life cycle assessment – Principles, requirements and guidelines for normalization, weighting and interpretation  | 13.020.10; 13.020.60 | 2022-11      |
| ISO 14093            | Mechanism for financing local adaptation to climate change – Performance-based climate resilience grants – Requirements and guidelines  | 13.020.20            | 2022-11      |
| ISO/IEC 14496-10     | Information technology – Coding of audio-visual objects – Part 10: Advanced video coding  | 35.040.40            | 2022-11      |
| ISO 14606            | Surface chemical analysis – Sputter depth profiling – Optimization using layered systems as reference materials   | 71.040.40            | 2022-11      |
| ISO/IEC/IEEE 15026-2 | Systems and software engineering – Systems and software assurance – Part 2: Assurance case  | 35.080               | 2022-11      |
| ISO 15118-9          | Road vehicles – Vehicle to grid communication interface – Part 9: Physical and data link layer conformance test for wireless communication  | 43.120               | 2022-11      |
| ISO/TS 15791-2       | Plastics – Development and use of intermediate-scale fire tests for plastics products – Part 2: Use of intermediate-scale tests for semi-finished and finished products                       | 13.220.40; 83.080.01 | 2022-11      |
| ISO 15830-3          | Road vehicles – Design and performance specifications for the WorldSID 50th percentile male side-impact dummy – Part 3: Mechanical requirements for electronic subsystems                     | 43.020               | 2022-11      |

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| ISO 16053             | Paints and varnishes – Coating materials and coating systems for exterior wood – Natural weathering test  | 87.040               | 2022-11      |
| ISO/TS 17321-4        | Graphic technology and photography – Colour characterization of digital still cameras (DSCs) – Part 4: Programmable light emission system   | 37.040.10            | 2022-11      |
| ISO/TS 17975          | Health informatics – Principles and data requirements for consent in the collection, use or disclosure of personal health information   | 35.240.80            | 2022-11      |
| ISO 18122             | Solid biofuels – Determination of ash content   | 27.190; 75.160.40    | 2022-11      |
| ISO 18314-3           | Analytical colorimetry – Part 3: Special indices  | 87.060.10            | 2022-11      |
| ISO 18314-5           | Analytical colorimetry – Part 5: Procedure for colorimetric determination of colour differences of object colours according to equidistant colour spaces  | 87.060.10            | 2022-11      |
| ISO 18418-2           | Gasoline engines – High pressure liquid fuel supply connections – Part 2: Pipe assemblies   | 43.060.40            | 2022-11      |
| ISO 18951-1           | Imaging materials – Scratch resistance of photographic prints – Part 1: General test method   | 37.040.20            | 2022-11      |
| ISO 18951-2           | Imaging materials – Scratch resistance of photographic prints – Part 2: Sclerometer test method   | 37.040.20            | 2022-11      |
| ISO/TS 19159-4        | Geographic information – Calibration and validation of remote sensing imagery sensors and data – Part 4: Space-borne passive microwave radiometers  | 35.240.70            | 2022-11      |
| ISO 19409             | Footwear – Sizing – Measurement of last dimensions  | 61.060               | 2022-11      |
| ISO 19609-3           | Traditional Chinese medicine – Quality and safety of raw materials and finished products made with raw materials – Part 3: Testing for contaminants   | 11.120.10            | 2022-11      |
| ISO 19721             | Plastics – Abrasion test method for artificial turfs using combined UV exposure and mechanical wear   | 83.080.01            | 2022-11      |
| ISO 20691             | Biotechnology – Requirements for data formatting and description in the life sciences   | 7.080                | 2022-11      |
| ISO 20730-2           | Road vehicles – Vehicle interface for electronic Periodic Technical Inspection (ePTI) – Part 2: Application and communication requirements conformance test plan  | 43.180               | 2022-11      |
| ISO/IEC 21000-23      | Information technology – Multimedia framework (MPEG-21) – Part 23: Smart Contracts for Media  | 35.040.40            | 2022-11      |
| ISO/IEC 21122-2 AMD 1 | Information technology – JPEG XS low-latency lightweight image coding system – Part 2: Profiles and buffer models – Amendment 1: Profile and sublevel for 4:2:0 content   | 35.040.30            | 2022-11      |
| ISO 21243             | Radiation protection – Performance criteria for laboratories performing initial cytogenetic dose assessment of mass casualties in radiological or nuclear emergencies – General principles and application to dicentric assay | 13.280; 27.120.20    | 2022-11      |
| ISO 21487             | Small craft – Permanently installed petrol and diesel fuel tanks  | 47.080               | 2022-11      |
| ISO 21634             | Rubber flaps for tyres – Requirements and test methods  | 83.160.01            | 2022-11      |
| ISO 21734-1           | Intelligent transport systems – Performance testing for connectivity and safety functions of automated driving buses in public transport – Part 1: General framework  | 03.220.20; 35.240.60 | 2022-11      |
| ISO/IEC TR 21897      | Information technology – Data centres – Impact of the ISO 52000 series on energy performance of buildings   | 35.020               | 2022-11      |
| ISO 21911-1           | Solid recovered fuels – Determination of self-heating – Part 1: Isothermal calorimetry  | 75.160.10            | 2022-11      |
| ISO 21940-21          | Mechanical vibration – Rotor balancing – Part 21: Description and evaluation of balancing machines  | 21.120.40            | 2022-11      |
| ISO 21994             | Passenger cars – Stopping distance at straight-line braking with ABS – Open-loop test method  | 43.040.40            | 2022-11      |
| ISO 22010             | Space systems – Mass properties control   | 49.140               | 2022-11      |
| ISO 22138             | Heavy commercial vehicles – Vehicle stability during tipper body operation – Tilt-table test method   | 43.080.01            | 2022-11      |
| ISO/IEC 23090-7       | Information technology – Coded representation of immersive media – Part 7: Immersive media metadata   | 35.040.40            | 2022-11      |

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| ISO/IEC 23090-10 AMD 1  | Information technology – Coded representation of immersive media – Part 10: Carriage of visual volumetric video-based coding data – Amendment 1: Support of packed video data               | 35.040.40                               | 2022-11      |
| ISO/IEC 23090-15        | Information technology – Coded representation of immersive media – Part 15: Conformance testing for versatile video coding  | 35.040.40                               | 2022-11      |
| ISO 23265               | Soil quality – Test for estimating organic matter decomposition in contaminated soil  | 13.080.30                               | 2022-11      |
| ISO 23318               | Milk, dried milk products and cream – Determination of fat content – Gravimetric method   | 67.100.10                               | 2022-11      |
| ISO/TR 23358            | Health informatics – A case study on establishing standardized measurement data in cardiac examination reports  | 35.240.80                               | 2022-11      |
| ISO/TS 23471            | Experimental designs for evaluation of uncertainty – Use of factorial designs for determining uncertainty functions   | 03.120.30; 17.020                       | 2022-11      |
| ISO 23586               | Conveyor belts – Indentation rolling resistance related to belt width – Requirements and testing  | 53.040.20                               | 2022-11      |
| ISO 23604               | Method of determining specific surface area of coal   | 73.040                                  | 2022-11      |
| ISO 23659               | Sports and recreational facilities – Trampoline parks – Safety requirements   | 97.220.10                               | 2022-11      |
| ISO 23668               | Ships and marine technology – Marine environment protection – Continuous on-board pH monitoring method  | 13.020.99; 47.020.99                    | 2022-11      |
| ISO 23669               | Corrosion of metals and alloys – Requirements for localised corrosion and environmentally assisted cracking testing of additively manufactured metals and alloys                            | 77.060                                  | 2022-11      |
| ISO 23806               | Ships and marine technology – Cyber safety  | 47.020.01                               | 2022-11      |
| ISO 23942               | Determination of hydroxytyrosol and tyrosol content in extra virgin olive oils – Reverse phase high performance liquid chromatography (RP-HPLC) method                                      | 67.200.10                               | 2022-11      |
| ISO 24048               | Plastics – Determination of bound acrylonitrile content in the continuous phase of acrylonitrile-butadiene-styrene (ABS) by Dumas combustion method   | 83.080.20                               | 2022-11      |
| ISO 24057               | Geotechnics – Array measurement of microtremors to estimate shear wave velocity profile   | 93.020                                  | 2022-11      |
| ISO 24084               | Curtain walling – Inter-storey displacement resistance – Test method  | 91.060.10                               | 2022-11      |
| ISO 24139-1             | Petroleum and natural gas industries – Corrosion resistant alloy clad bends and fittings for pipeline transportation system – Part 1: Clad bends  | 75.200                                  | 2022-11      |
| ISO 24197               | Vapour products – Determination of e-liquid vaporised mass and aerosol collected mass   | 65.160                                  | 2022-11      |
| ISO 24229               | Information and documentation – Codes for written language conversion systems   | 01.140.10; 01.140.20                    | 2022-11      |
| ISO 24239               | Corrosion control engineering life cycle in fossil fuel power plants – General requirements   | 27.100; 77.060                          | 2022-11      |
| ISO 24525               | Drinking water, wastewater and stormwater systems and services – Operation and maintenance of on-site domestic wastewater services  | 03.080.30; 13.060.20; 13.060.30         | 2022-11      |
| ISO 24564               | Space systems – Adhesives – General requirements  | 49.140; 83.180                          | 2022-11      |
| ISO/IEC 24668           | Information technology – Artificial intelligence – Process management framework for big data analytics  | 35.020                                  | 2022-11      |
| ISO/IEC/IEEE 24748-7000 | Systems and software engineering – Life cycle management – Part 7000: Standard model process for addressing ethical concerns during system design   | 03.100.02; 25.040.30; 35.080; 35.240.01 | 2022-11      |
| ISO/DTR 25060           | Systems and software engineering – Systems and software Quality Requirements and Evaluation (SQuaRE) – General framework for Common Industry Format (CIF) for usability-related information | 35.080                                  | 2022-11      |
| ISO/IEC 27553-1         | Information security, cybersecurity and privacy protection – Security and privacy requirements for authentication using biometrics on mobile devices – Part 1: Local modes                  | 35.030                                  | 2022-11      |

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| ISO/IEC 27557       | Information security, cybersecurity and privacy protection – Application of ISO 31000:2018 for organizational privacy risk management  | 35.030               | 2022-11      |
| ISO/IEC 27559       | Information security, cybersecurity and privacy protection – Privacy enhancing data de-identification framework                        | 35.030               | 2022-11      |
| ISO/IEC TR 29119-13 | Software and systems engineering – Software testing – Part 13: Using the ISO/IEC/IEEE 29119 series in the testing of biometric systems | 35.080               | 2022-11      |
| ISO 29766           | Thermal insulating products for building applications – Determination of tensile strength parallel to faces                            | 91.100.60            | 2022-11      |
| ISO/IEC 30105-4     | Information technology – IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes – Part 4: Key concepts        | 35.020               | 2022-11      |
| ISO 30400           | Human resource management – Vocabulary   | 01.040.03; 03.100.30 | 2022-11      |
| ISO 34502           | Road vehicles – Test scenarios for automated driving systems – Scenario based safety evaluation framework                              | 43.020               | 2022-11      |
| ISO/IEC/IEEE 42010  | Software, systems and enterprise – Architecture description  | 35.080               | 2022-11      |
| IEC 80000-6         | Quantities and units – Part 6: Electromagnetism  | 1.060                | 2022-11      |

## Međunarodna normizacija (IEC)

| Oznaka norme               | Naslov norme   | ICS   | Datum objave |
|----------------------------|--|---|--------------|
| IEC/TR 61850-90-7          | Communication networks and systems for power utility automation – Part 90-7: Object models for power converters in distributed energy resources (DER) systems                                | 33.040.40                                     | 2022-11      |
| IEC/TR 61850-90-21         | Communication networks and systems for power utility automation – Part 90-21: Travelling wave fault location   | 33.040.40                                     | 2022-11      |
| IEC/PAS 63086-2-3          | Household and similar electrical air cleaning appliances – Part 2-3: Method for Assessing the Reduction Rate of Key Bioaerosols by Portable Air Cleaners Using an Aerobiology Test Chamber   | 13.040.20; 23.120                             | 2022-11      |
| IEC/TR 61760-5-1           | IEC/TR 61760-5-1, Ed. 1.0: Surface mounting technology – Part 5-1: SURFACE STRAIN ON CIRCUIT BOARDS: 3-axis strain gauge measurement applied to chip components                              | 31.020; 31.180                                | 2022-11      |
| IEC/TR 62899-304-1         | Printed electronics – Part 304-1: Equipment – Temperature Measurement Method for Photonic Sintering System   | 31.180  | 2022-11      |
| IEC 60071-11               | Insulation co-ordination – Part 11: Definitions, principles and rules for HVDC system  | 01.040.29; 29.080.30                          | 2022-11      |
| IEC 60079-25 Corrigendum 2 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems; Corrigendum 2  | 29.260.20                                     | 2022-11      |
| IEC 60115-4                | Fixed resistors for use in electronic equipment – Part 4: Sectional specification: Power resistors for through hole assembly on circuit boards (THT) or for assembly on chassis              | 31.040.10                                     | 2022-11      |
| IEC 60216-5                | Electrical insulating materials – Thermal endurance properties – Part 5: Determination of relative temperature index (RTI) of an insulating material   | 19.020; 29.020;<br>29.035.01                  | 2022-11      |
| IEC 60216-6                | Electrical insulating materials – Thermal endurance properties – Part 6: Determination of thermal endurance indices (TI and RTI) of an insulating material using the fixed time frame method | 17.220.99; 29.035.01                          | 2022-11      |
| IEC 60286-2                | Packaging of components for automatic handling – Part 2: Tape packaging of components with unidirectional leads on continuous tapes  | 31.020; 31.240; 55.060                        | 2022-11      |
| IEC 60286-3                | Packaging of components for automatic handling – Part 3: Packaging of surface mount components on continuous tapes   | 31.020; 31.240; 55.060                        | 2022-11      |
| IEC 60404-3                | Magnetic materials – Part 3: Methods of measurement of the magnetic properties of electrical steel strip and sheet by means of a single sheet tester   | 17.220.20; 29.030                             | 2022-11      |
| IEC 60700-3                | Thyristor valves for high voltage direct current (HVDC) power transmission – Part 3: Essential ratings (limiting values) and characteristics   | 29.200; 31.080.20                             | 2022-11      |
| IEC 60747-16-7             | Semiconductor devices – Part 16-7: Microwave integrated circuits – Attenuators   | 31.080.99                                     | 2022-11      |
| IEC 60747-16-8             | Semiconductor devices – Part 16-8: Microwave integrated circuits – Limiters  | 31.080.99                                     | 2022-11      |
| IEC 60806                  | Determination of the maximum symmetrical radiation field of X-ray tube assemblies and X-ray source assemblies for medical diagnosis  | 11.040.50                                     | 2022-11      |
| IEC/TR 60878               | Graphical symbols for electrical equipment in medical practice   | 01.080.10; 01.080.40;<br>11.040.01; 11.040.60 | 2022-11      |
| IEC 60904-5 AMD 1          | Photovoltaic devices – Part 5: Determination of the equivalent cell temperature (ECT) of photovoltaic (PV) devices by the open-circuit voltage method; Amendment 1                           | 27.160  | 2022-11      |
| IEC 60904-5 Edition 2.1    | Photovoltaic devices – Part 5: Determination of the equivalent cell temperature (ECT) of photovoltaic (PV) devices by the open-circuit voltage method  | 27.160  | 2022-11      |
| IEC 60910                  | Nuclear power plants – Instrumentation important to safety – Containment monitoring for early detection of developing deviations from normal operation in light water reactors               | 27.120.20; 27.120.99                          | 2022-11      |
| IEC 60951-1                | Nuclear facilities – Instrumentation systems important to safety – Radiation monitoring for accident and post-accident conditions – Part 1: General requirements                             | 17.240; 27.120.20                             | 2022-11      |

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| IEC 60951-3             | Nuclear facilities – Instrumentation systems important to safety – Radiation monitoring for accident and post-accident conditions – Part 3: Equipment for continuous high range area gamma monitoring                              | 17.240; 27.120.20                                       | 2022-11      |
| IEC 61196-10            | Coaxial communication cables – Part 10: Sectional specification for semi-rigid cables with fluoropolymer dielectric  | 33.120.10   | 2022-11      |
| IEC 61196-10-1          | Coaxial communication cables – Part 10-1: Blank detail specification for semi-rigid cables with fluoropolymer dielectric   | 33.120.10   | 2022-11      |
| IEC 61400-50-1          | Wind energy generation systems – Part 50-1: Wind measurement – Application of meteorological mast, nacelle and spinner mounted instruments   | 27.180  | 2022-11      |
| IEC 61800-3             | Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods for PDS and machine tools   | 29.160.30; 29.200; 33.100.01                            | 2022-11      |
| IEC 61869-99            | Instrument transformers – Part 99: Glossary  | 01.040.01; 01.040.17; 17.220.20                         | 2022-11      |
| IEC 61980-3             | Electric vehicle wireless power transfer (WPT) systems – Part 3: Specific requirements for magnetic field wireless power transfer systems  | 43.120  | 2022-11      |
| IEC 62037-8             | Passive RF and microwave devices, intermodulation level measurement – Part 8: Measurement of passive intermodulation generated by objects exposed to RF radiation  | 33.040.20; 33.120.01; 33.120.30                         | 2022-11      |
| IEC 62040-1 AMD 2       | Uninterruptible power systems (UPS) – Part 1: Safety requirements; Amendment 2   | 29.160.40; 29.200                                       | 2022-11      |
| IEC 62040-1 Edition 2.2 | Uninterruptible power systems (UPS) – Part 1: Safety requirements  | 29.160.40; 29.200                                       | 2022-11      |
| IEC 62228-6             | Integrated circuit – EMC evaluation of transceivers – Part 6: PSI5 transceivers  | 31.200; 33.120.10                                       | 2022-11      |
| IEC 62275               | Cable management systems – Cable ties for electrical installations   | 29.120.10; 29.120.99                                    | 2022-11      |
| IEC 62287-1 AMD 1       | Maritime navigation and radiocommunication equipment and systems – Class B shipborne equipment of the automatic identification system (AIS) – Part 1: Carrier-sense time division multiple access (CSTDMA) techniques; Amendment 1 | 47.020.70   | 2022-11      |
| IEC 62287-1 Edition 3.1 | Maritime navigation and radiocommunication equipment and systems – Class B shipborne equipment of the automatic identification system (AIS) – Part 1: Carrier-sense time division multiple access (CSTDMA) techniques              | 47.020.70   | 2022-11      |
| IEC 62386-101           | Digital addressable lighting interface – Part 101: General requirements – System components  | 29.140.30; 29.140.50; 29.140.99; 35.240.99              | 2022-11      |
| IEC 62386-102           | Digital addressable lighting interface – Part 102: General requirements – Control gear   | 29.140.30; 29.140.50; 29.140.99; 35.240.99              | 2022-11      |
| IEC 62386-103           | Digital addressable lighting interface – Part 103: General requirements – Control devices  | 29.140.30; 29.140.50; 29.140.99; 35.240.99              | 2022-11      |
| IEC 62397               | Nuclear power plants – Instrumentation and control important to safety – Resistance temperature detectors  | 27.120.20   | 2022-11      |
| IEC/TS 62474-1          | Material declaration for products of and for the electrotechnical industry – Part 1: Guidance on the implementation of IEC 62474   | 01.110; 13.020.01; 13.020.30; 29.020; 29.100.01; 31.020 | 2022-11      |
| IEC/IEEE 62582-2        | Nuclear power plants – Instrumentation and control important to safety – Electrical equipment condition monitoring methods – Part 2: Indenter measurements   | 27.120.20   | 2022-11      |
| IEC/IEEE 62582-4        | Nuclear power plants – Instrumentation and control important to safety – Electrical equipment condition monitoring methods – Part 4: Oxidation induction techniques  | 27.120.20   | 2022-11      |
| IEC 62606 AMD 2         | General requirements for arc fault detection devices; Amendment 2  | 29.120.01; 29.120.50                                    | 2022-11      |

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| IEC 62606 Edition 1.2   | General requirements for arc fault detection and protection devices (AFDDs)   | 29.120.01; 29.120.50                               | 2022-11      |
| IEC/TS 62607-2-5        | Nanomanufacturing – Key control characteristics – Part 2-5: Carbon nanotube materials – Mass density of vertically-aligned carbon nanotubes: X-ray absorption method  | 07.030; 07.120                                     | 2022-11      |
| IEC/TS 62607-6-16       | Nanomanufacturing – Key control characteristics – Part 6-16: Two-dimensional materials – Carrier concentration: Field effect transistor method  | 07.030; 07.120                                     | 2022-11      |
| IEC/TS 62607-6-22       | Nanomanufacturing – Key control characteristics – Part 6-22: Graphene-based material – Ash content: incineration  | 7.120  | 2022-11      |
| IEC 62618               | Radiation protection instrumentation – Spectroscopy-based alarming personal radiation detectors (SPRD) for the detection of illicit trafficking of radioactive material   | 13.280; 17.240                                     | 2022-11      |
| IEC 62629-62-11         | 3D display devices – Part 62-11: Measurement methods for virtual-image type – Optical   | 31.120; 31.260                                     | 2022-11      |
| IEC 62694               | Radiation protection instrumentation – Backpack-type radiation detector (BRD) for the detection of illicit trafficking of radioactive material  | 13.280; 17.240                                     | 2022-11      |
| IEC 62705               | Nuclear facilities – Instrumentation and control important to safety – Radiation monitoring systems (RMS): Characteristics and lifecycle  | 27.120.20  | 2022-11      |
| IEC/TR 62715-6-21       | Flexible display devices – Part 6-21: Mechanical test methods – Foldable durability test for foldable display set   | 31.120; 31.260                                     | 2022-11      |
| IEC 62873-3-3           | Residual current operated circuit-breakers for household and similar use – Part 3-3: Specific requirements for devices with screw-type terminals for external untreated aluminium conductors and with aluminium screw-type terminals for use with copper or with aluminium conductors | 29.120.50  | 2022-11      |
| IEC/TS 62933-3-3        | Electrical energy storage (EES) systems – Part 3-3: Planning and performance assessment of electrical energy storage systems – Additional requirements for energy intensive and backup power applications   | 13.020.30; 27.010                                  | 2022-11      |
| IEC 63115-1 AMD 1       | Secondary cells and batteries containing alkaline or other non-acid electrolytes Sealed nickel-metal hydride cells and batteries for use in industrial applications – Part 1: Performance; Amendment 1  | 29.220.30  | 2022-11      |
| IEC 63115-1 Edition 1.1 | Secondary cells and batteries containing alkaline or other non-acid electrolytes Sealed nickel-metal hydride cells and batteries for use in industrial applications – Part 1: Performance   | 29.220.30  | 2022-11      |
| IEC 63203-402-1         | Wearable electronic devices and technologies – Part 402-1: Performance measurement of fitness wearables – Test methods of glove-type motion sensors for measuring finger movements  | 31.020; 31.080.99; 59.080.80                       | 2022-11      |
| IEC 63203-801-1         | Wearable electronic devices and technologies – Part 801-1: Smart body area network (SmartBAN) – Enhanced ultra-low power physical layer   | 31.080.99; 35.100.01; 35.110; 35.240.80; 59.080.80 | 2022-11      |
| IEC 63203-801-2         | Wearable electronic devices and technologies – Part 801-2: Smart body area network (SmartBAN) – Low complexity medium access control (MAC) for SmartBAN   | 31.080.99; 35.100.01; 35.110; 35.240.80; 59.080.80 | 2022-11      |
| IEC/TR 63377            | Procedures for the assessment of human exposure to electromagnetic fields from radiative wireless power transfer systems – Measurement and computational methods (frequency range of 30 MHz to 300 GHz)   | 13.280; 17.220.20; 33.050.10; 33.070.99            | 2022-11      |
| IEC/TS 63383            | Cybersecurity aspects of devices used for power metering and monitoring, power quality monitoring, data collection and analysis   | 17.220.20; 29.240.01; 35.030                       | 2022-11      |
| IEC/TR 63401-1          | Dynamic characteristics of inverter-based resources in bulk power systems – Part 1: Interconnecting inverter-based resources to low short circuit ratio AC networks   | 27.190; 29.020; 29.120.50; 29.240.01               | 2022-11      |
| IEC/PAS 63454           | Conductive charging of electric vehicles – DC vehicle coupler configuration GG  | 29.120.30; 43.040.10; 43.120                       | 2022-11      |



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| IEC 80000-6             | Quantities and units – Part 6: Electromagnetism   | 01.040.29; 01.060;<br>17.220.01            | 2022-11      |
| ISO/IEC 14496-10        | Information technology – Coding of audio-visual objects<br>– Part 10: Advanced video coding   | 35.040.40                                  | 2022-11      |
| ISO/IEC/IEEE 15026-2    | Systems and software engineering – Systems and software<br>assurance – Part 2: Assurance case   | 35.080                                     | 2022-11      |
| ISO/IEC 21000-23        | Information technology – Multimedia framework (MPEG-21)<br>– Part 23: Smart Contracts for Media   | 35.040.40                                  | 2022-11      |
| ISO/IEC 21122-2 AMD 1   | Information technology – JPEG XS low-latency lightweight<br>image coding system – Part 2: Profiles and buffer models<br>– Amendment 1: Profile and sublevel for 4:2:0 content       | 35.040.30                                  | 2022-11      |
| ISO/IEC TR 21897        | Information technology – Data centres – Impact of the<br>ISO 52000 series on energy performance of buildings  | 35.020                                     | 2022-11      |
| ISO/IEC 23090-7         | Information technology – Coded representation of immersive<br>media – Part 7: Immersive media metadata  | 35.040.40                                  | 2022-11      |
| ISO/IEC 23090-10 AMD 1  | Information technology – Coded representation of immersive<br>media – Part 10: Carriage of visual volumetric video-based<br>coding data – Amendment 1: Support of packed video data | 35.040.40                                  | 2022-11      |
| ISO/IEC 23090-15        | Information technology – Coded representation of immersive<br>media – Part 15: Conformance testing for versatile video<br>coding  | 35.040.40                                  | 2022-11      |
| ISO/IEC 24668           | Information technology – Artificial intelligence – Process<br>management framework for big data analytics   | 35.020                                     | 2022-11      |
| ISO/IEC/IEEE 24748-7000 | Systems and software engineering – Life cycle management<br>– Part 7000: Standard model process for addressing ethical<br>concerns during system design                             | 03.100.02; 25.040.30;<br>35.080; 35.240.01 | 2022-11      |
| ISO/IEC 27553-1         | Information security, cybersecurity and privacy protection<br>– Security and privacy requirements for authentication using<br>biometrics on mobile devices – Part 1: Local modes    | 35.030                                     | 2022-11      |
| ISO/IEC 27557           | Information security, cybersecurity and privacy protection<br>– Application of ISO 31000:2018 for organizational privacy<br>risk management   | 35.030                                     | 2022-11      |
| ISO/IEC 27559           | Information security, cybersecurity and privacy protection<br>– Privacy enhancing data de-identification framework  | 35.030                                     | 2022-11      |
| ISO/IEC TR 29119-13     | Software and systems engineering – Software testing<br>– Part 13: Using the ISO/IEC/IEEE 29119 series in the testing<br>of biometric systems  | 35.080                                     | 2022-11      |
| ISO/IEC 30105-4         | Information technology – IT Enabled Services-Business<br>Process Outsourcing (ITES-BPO) lifecycle processes<br>– Part 4: Key concepts   | 35.020                                     | 2022-11      |
| ISO/IEC/IEEE 42010      | Software, systems and enterprise – Architecture description   | 35.080                                     | 2022-11      |
| IEC 80000-6             | Quantities and units – Part 6: Electromagnetism   | 1.060                                      | 2022-11      |
| IEC/TR 61760-5-1        | Surface mounting technology – Part 5-1: Surface strain on<br>circuit boards: 3-axis strain gauge measurement applied to<br>chip components  | 31.020; 31.180                             | 2022-11      |