

EESTI STANDARDIKESKUS

EVS TEATAJA

4/2003

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KVALITEEDIKULUD

IT SÖNASTIK ILMUNUD

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EESTI UUDISED

20. märtsil esitas Standardikeskus avalduse CEN ja CENELEC täisliikmeks saamiseks.

Eesti standardiorganisatsiooni kuulumine Euroopa standardiorganisatsioonidesse on oluliseks eeltingimuseks Eesti vastuvõtmisel Euroopa Liitu.

Täisliikmeks saamiseks peab EVS täitma mitmed tingimused. Ta peab olema suuteline osalema Euroopa standardite koostamises ja hääletamises, omama selleks vajalikku IT baasi ja kompetentset personali. Eesti standardiks peab olema üle võetud vähemalt 80 % Euroopa standarditest. Auditi positiivsete tulemuste korral otsustatakse EVS täisliikmeks saamine Euroopa Standardikomiteede aastakoosolekul.

4. märtsil 2003 toimus Standardikeskuses seminar teemal "**Standarditele viitamine õigusaktides**". Ettekannetega esinesid EVS tegevdirektor Sven Kasemaa ja Majandus- ja Kommunikatsiooniministeriumi tööstusosakonna juhataja Merike Kompus. Standardiinfo leidmist tutvustas EVS peaspetsialist Signe Ruut.

20. märtsil toimus Standardikeskuses seminar "**Sissejuhatus standardimisse**". Ettekannetega esinesid EVS tegevdirektor Sven Kasemaa, standardiosakonna juhataja Raul Juhanson, tehniliste komiteede spetsialist Mare Annsoo ning Majandus- ja Kommunikatsiooniministeriumi tööstusosakonna peaspetsialist Priit Kikas.

27. märtsil külastas EVS-i Rotterdami Erasmuse Ülikooli standardimisprofessor ning Hollandi Standardiinstituudi standardimise vanemkonsultant **Dr Henk J. de Vries**, kes kohtus EVS juhtkonna ja standardiosakonna töötajatega ning tegi ettekande teemal "Rahvuslik standardiorganisatsioon oma kliente teenindamas".

Majandus- ja kommunikatsiooniministri 4. märtsi 2003. a määrusega nr 40 kehtestati "**Aktiisikauba mõõtmiseks kasutatavate mõõtevahendite metrooloogilistele omadustele esitatavad nõuded**"

Käesolevas määruses on metroloogiaalaseid põhimõisteid kasutatud vastavalt Eesti standardile EVS 758:1998 «Metroloogia. Terminid ja määratlused».

§ 3. Nõuded mõõtevahendite metrooloogilistele omadustele

(4) Mahuühikutes mõõdetud kütuse koguse väljendamiseks massiühikutes tuleb tagada arvutuse laiendmääramatuse väärtus tõenäosustasemel 95% ±0,02%. Selle nõude täidetust eeldatakse, kui arvutustes on kasutatud rahvusvahelise standardi ISO 91-1 naftasaaduste mõõtmiste tabelleid 53A, 53B, 54A, 54B².



20. märtsil esitas EVS avalduse CEN/CENELEC täisliikmeks saamiseks. See paneb EVS ette uued ülesanded - lisaks kavandite arvamusküsitluse korraldamisele tuleb hakata osalema ka kavandite hääletamisel. Täisliikme staatus tähendab ühtlasi, et peab hakkama aktiivsemalt osa võtma Euroopa standardite koostamisest. Samas tekib aga suurem võimalus mõjutada uute standardite sisu Eestile vajalikus suunas.

Selles EVS Teataja numbris on arvamusküsitlusele pandud eestikeelsed pakendistandardite kavandid. Uute standarditena on ilmunud neli viimast osa infotehnoloogia sõnastikust. Seega on IT valdkond kaetud eestikeelsete terminite ja määratlustega. Terminoloogial on standardimises üldse tähelepanuväärne koht. Selle tunnistuseks on ka aprillis EVS korraldusel toimuv terminoloogia jätkuseminar.

Kaks pikemat artiklit on seekord kvaliteedi- ja metroloogiavallast. Huvitavat mõtteainet pakub Eesti Kvaliteedijuhtimiskeskuse ja Kvaliteediühingu koostöös valminud sertifitseeritud ettevõtete kvaliteedikulude võrdlusuuring. Elektripaigaldiste parameetrite võrdlusmõõtmine muutus oluliseks seoses akrediteerimisnõuete esitamisega mõõtelaboritele seadusandluse (Elektriohutusseadus) poolt. Võrdlusmõõtmiste tulemustega saate tutvuda E. Kulderknupi artiklis.

Anne Laimets

8. aprillil 2003 algusega kell 13:00

Eesti Standardikeskuses

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DIREKTIIVID LIHTSAMAKS

Euroopa Komisjon tegi ettepaneku lihtsustada elektromagnetilisest ühilduvuse direktiivi (89/336/EEC).

Elektromagnetilise ühilduvuse direktiiv kehtib Euroopa Liidus alates 1. jaanuarist 1996. Direktiiv peaks piirama ning vähendama võimalike häirete teket erinevate elektriliste ning elektrooniliste seadeldiste puhul nagu nt kodumasinad, jõujaamad, telekommunikatsiooni- või elektrivõrgustikud. Euroopa Komisjoni liige, ettevõtluse ja infoühiskonna volinik Erkki Liikanen ütles ühes oma viimastest sõnavõttudest, et tehtud ettepanek demonstreerib olukorda, kus siseturu toimimist ning ettevõtete konkurentsivõimet püütakse efektiivselt parandada just regulatiivsete tekstide lihtsustamise kaudu.

Direktiivil on kaks põhilist suunist, mida tuleb järgida.

Elektromagnetiline emissioon ei tohi takistada teiste seadeldiste korrektset töötamist. Näiteks ei tohi mikrolaineahi

takistada raadiosignaali vastuvõtmist. Teisest küljest peab seadis olema piisavalt immuunne kõikvõimalikele elektromagnetilistele lainetele, mis keskkonnas eksisteerivad - näiteks ei tohiks raadio alarm hakata tööle mobiiltelefoni lähedusest.

Elektromagnetilise ühilduvuse direktiiv on loodud eesmärgiga kaitsta eelkõige tarbijaid, kuid samas ka tööstust ning selle seadmeid elektromagnetiliste võngete tagajärgede eest.

Komisjoni ettepanekul on muudatuste tegemise eesmärgiks eelkõige protseduuride lihtsustamine tootjatele (teatud protseduurireeglite kaotamine, kulutuste vähendamine), samal ajal tahetakse suunata enam tähelepanu informatsiooni levikule ning põhjaliku dokumentatsiooni koostamisele erinevate toodete ning tootegruppide kohta.

Praeguses direktiivis eksisteerib kolm erinevat vastavushindamise protseduuri, mille vahel peab ettevõtja valima

olenevalt seadeldisest ning sellest, kas harmoneeritud standardid on konkreetsele tootele kohaldatavad või mitte. Kaks neist protseduuridest nõuaksid kohustuslikku sõltumatu inspeksiooni või sertifitseeritud asutuste osalemist protsessis. Uus tekst teeb tootjad ainuisikuliselt vastutavaks oma toodete vastavushindamise ning CE-märgistuse kinnitamise eest. See teeb protseduuri-reeglid lihtsamaks ning vähendab tootjate kulutusi, suurendab aga seejuures ettevõtjate vastutust.

Rangemad nõudmised on informatsiooni ning dokumentatsiooni täpsuse, täielikkuse ja läbipaistvuse osas. Näiteks peab tootja edastama toote identifitseerimiseks selle täpsed andmed (tüüp, seerianumber jne), samuti enda või oma agendi nime ning aadressi ning juhul, kui

vajalik, ka Euroopa Liidu territooriumil asuva importööri kontaktandmed. Sellega tekkiv suurem läbipaistvus peaks võimuorganitele turusituatsiooni jälgimise kergemaks tegema.

Turult kõrvaldatakse tooted, mille päritolu on võimatu tegelikkuses kindlaks teha, mis omakorda soodustab ausat konkurentsi ettevõtjate vahel.

Eestis reguleerib vastavat valdkonda "Elektriohutuseseadus". Eesti standardiks ülevõetud harmoneeritud standardite loeteluga saate tutvuda aadressil <http://www.evs.ee/images/pdf/89-336.pdf>

Eesti Kaubandus-Tööstuskoja Teatajas ilmunud artiklit refereeris AL

MÄRTSIKUU STANDARDID

Eesti keeles on nüüd ilmunud tervikuna 35-osaline infotehnoloogia sõnastik. Viimasena ilmus sõnastiku neli osa, mis käsitlevad teemasid - hüpermeedium ja multimeedium, võrgundus ning virtuaalreaalsus. Infotehnoloogia sõnastiku ilmunud neli järgnevat osa on ISO tehnilise alamkomitee JTC1/SC1 töödokumentide tõlked. Töödokumentide tõlked seetõttu, et seoses terminoloogialase alamkomitee JTC1/SC1 töö lõpetamisega ei ole kavas antud töödokumente viia standardi kujule. Samas peeti otstarbekaks terminoloogia katvuse vajadusest tulenevalt ka need osad avaldada Eesti standardina.

EVS 2382-30:2003 Infotehnoloogia. Sõnastik. Osa 30: Raalnägemine

Standard on mõeldud soodustama rahvusvahelist suhtlust infotehnoloogias. Ta esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Standard määratleb raalnägemisega seotud mõisteid. Raalnägemine e tehisnägemine on funktsionaalüksuse võime hõivata,

töödelda ja interpreteerida visuaalandmeid.

EVS 2382-33:2003 Infotehnoloogia. Sõnastik. Osa 33: Hüpermeedium ja multimeedium.

Standard esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Standard määratleb hüpermeediumiga ning multimeediumiga seotud mõisteid. Meedium on vahend, millega andmeid tajutakse, kuvatakse, salvestatakse või edastatakse. Multimeedium on omane mitme meediumitüübi kombinatsiooni kasutamisele. Hüpermeedium on hüpermeediumiliste mõistete, rakenduste ja meetodite valdkond.

EVS 2382-35:2003 Infotehnoloogia. Sõnastik. Osa 35: Võrgundus

Standard esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Standard määratleb võrgundusega seotud mõisteid. Võrgundus on arvutivõrkude rajamise, eksploatatsiooni

ja kasutamisega seotud meetodite kogum.

EVS 2382-37:2003 Infotehnoloogia. Sõnastik. Osa 37: Virtuaalreaalsus
Standard esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete

terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Standard määratleb virtuaalreaalsusega seotud mõisteid. Virtuaalreaalsus on virtuaalilmas osaleja tajumused ja kogetav.

KVALITEET



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SERTIFITSEERITUD ETTEVÖTETE KVALITEEDIKULUDE VÕRDLUSUURING

Analüüs ja järeldused

Üldist

Eesti Juhimiskvaliteedi Keskus koostöös Eesti Kvaliteediühinguga teostas jaanuaris 2003 uuringu, mille eesmärgiks oli:

1. selgitada välja, kui võrd on ISO 9000 seeria standardi alusel sertifitseeritud ettevõtted teadlikud oma kvaliteedisüsteemi olemasolu finantsmõjudest ettevõttele;
2. anda tagasisidet kvaliteedikuludest võrdlusinformatsioonina küsitluses osalenud ettevõtetele;
3. saada informatsiooni selle kohta, mil määral ISO 9000 sertifikaat ja sellele vastav kvaliteedisüsteem täidavad ettevõtete ootusi;
4. leida juhtimise parimaid praktikaid kvaliteedisüsteemi mõjude mõõtmisel.

Uuringu ühe põhihüpoteesi kohaselt ei ole sertifitseeritud ettevõtted enamasti küllaldaselt teadlikud oma kvaliteedikuludest ja kvaliteedisüsteemi olemasolu finantsmõjudest.

Küsitlus saadeti E-maili teel 130-le ettevõttele ning sellele vastas 40 ettevõtet (30,7%).

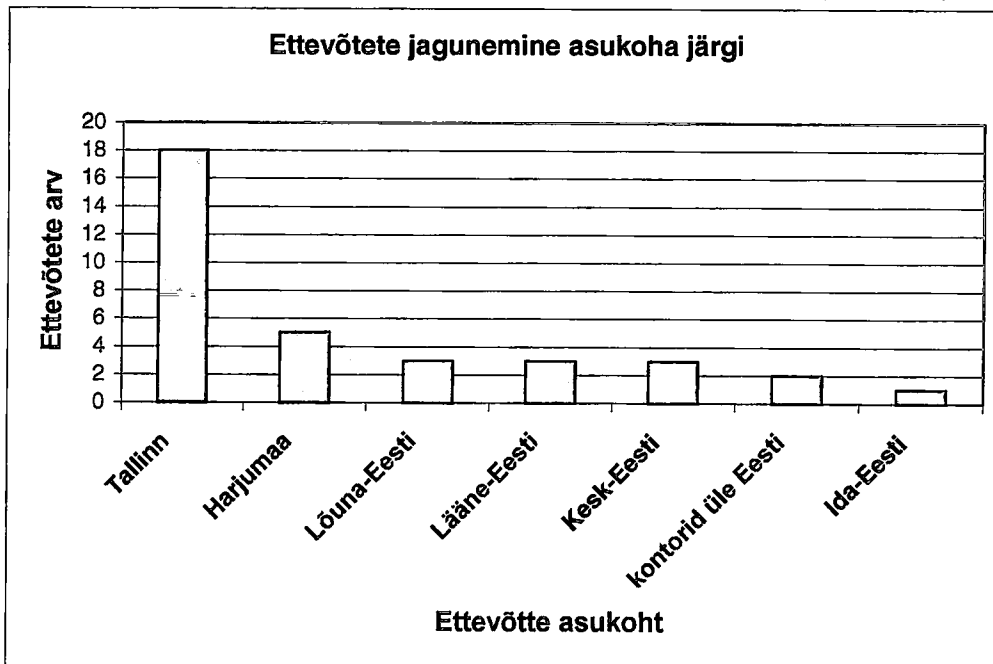
Käesolevas analüüsis on käsitletud tulemusi küsimuste kaupa ning lõpuks esitatud küsitluse tulemused tervikuna. Toodud protsentarvud ei moodusta alati 100 %, kuna vastajatele jäeti valikuvõimalus jätta osale küsimustest vastamata.

Tulemused ja järeldused küsimuste lõikes

I osa: ÜLDANDMED

Küsitletud ettevõtete tegevusvaldkonnad on väga erinevad. Üle poole (57 %) tegelevad tootmisega. Teenuse osutajaid on 43 %, neist enamus (53%) tegutseb ehituse valdkonnas. Ehitusega tegelevaid ettevõtteid oli vastanute üldarvust 23%. ISO 9000 seeria standardile vastava kvaliteedisüsteemi populaarsust ehituse valdkonnas seletab kindlasti järjest sagedamini ehitajale esitatav vastava sertifikaadi olemasolu nõue – eriti just riigihangetel osalemisel. Ehitusettevõtetel puuduvad alternatiivid oma kvaliteedisüsteemi olemasolu tõestamise kohta.

Enamus vastanud ettevõtetest paikneb Harju maakonnas ja Tallinnas, mis vastab üldisele ettevõtete jaotumisele Eestis. Seevastu on sertifitseeritud ettevõtete arv vähene Eesti idapoolses osas. Põhjus võib seisneda selles, et ettevõtete arendustegevuse jaoks vajalikud teenused pole venekeelsetele ettevõtetele piisavalt kättesaadavad. (vt tabel 1)



Tabel 1: Ettevõtete jagunemine asukoha järgi

Vastajad olid enamasti kvaliteedijuhid (57%), paaril korral vastas küsitlusele finantsjuht. Paljudel juhtudel, sealhulgas isegi suuremate ettevõtete puhul vastas küsitlusele peadirektor (14%), mis on väga positiivne, kuna tippjuhi pühendumisest sõltub oluliselt ettevõtte jätkusuutlik areng.

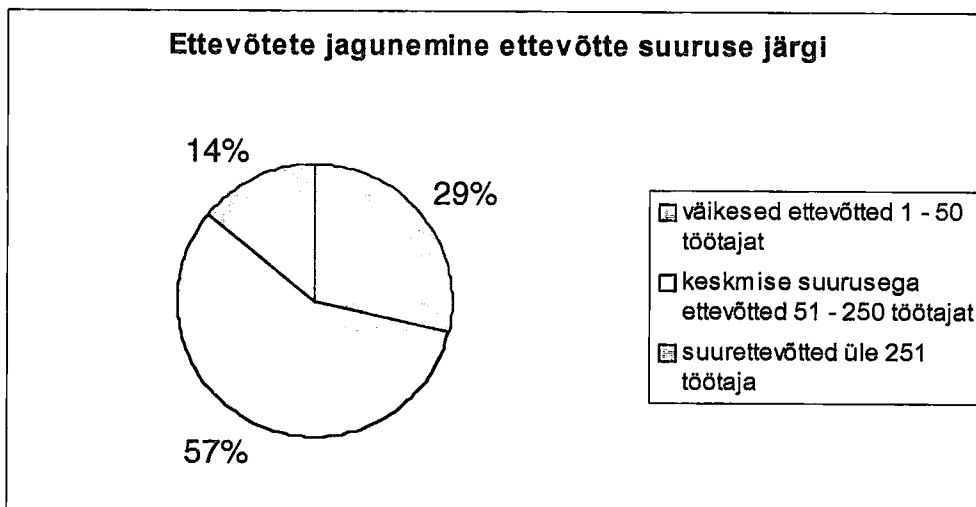
Töötajate arvu järgi jaotusid ettevõtted järgmiselt:

Väikese suurusega ettevõtted (1 – 50 töötajat) - 10 ettevõtet

Keskmise suurusega ettevõtted (51 – 250 töötajat) – 20 ettevõtet

Suurettevõtted (üle 251 töötaja) – 5 ettevõtet

(vt tabel 2)



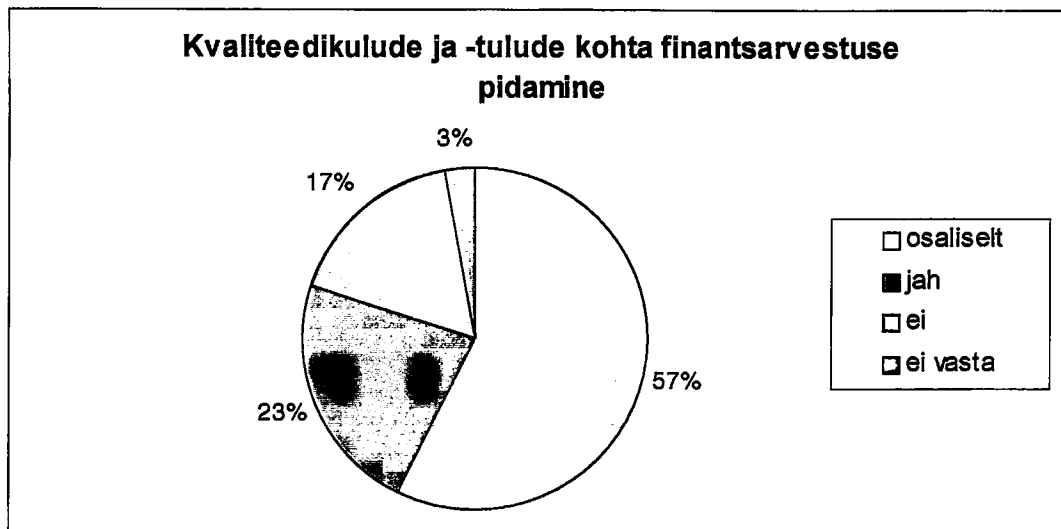
Tabel 2: Ettevõtete jagunemine ettevõtte suuruse järgi

Kvaliteedisüsteemi sertifitseerimise populaarsus kasv on märgatav alates 30 töötajaga ettevõtetest. Väiksematel firmadel on tõenäoliselt takistuseks ressursside vähesus. Samuti on väikese kollektiivi puhul vähem võimalusi rakendada süsteemseid juhtimismetoodikaid. Juhtimiskvaliteedi alase arendustegevuse tunnustamise võimalused on eriti piiratud alla 30 töötajaga ettevõtetes.

II osa: ETTEVÕTTE KVALITEEDIKULUD JA -TULUD

Pooltel vastanutest (51%) katab kvaliteedisüsteem ettevõtte kogu töötajaskonna. Küsitlusest ei selgu, mis põhjusel ülejäänud ettevõtete puhul osa töötajaskonnast on sertifikaadiga katmata ning näiteks ettevõtte tegevusalal või suurusel ei tundu olevat seost osalise kattuvusega. Samas on teada, et ettevõtted ei pruugi sertifitseerida kõiki tootmisliine või tegevusalasid. Samuti võib osa tugiteenuseid (näiteks raamatupidamine, koristamine) olla väljaspool kvaliteedisüsteemi. ISO 9000 standard pole oma olemuselt terviklik kogu organisatsiooni hõlmav standard, vaid keskendub toote ja teenuse kvaliteedi tagamisele.

Finantsarvestust kvaliteedikulude ja -tulude kohta peetakse kas osaliselt või täies mahus 80% vastanud ettevõttest. See tulemus näitab, et ettevõtted on enamasti huvitatud kvaliteedisüsteemi finantsmõjudest. 17 % (6 ettevõtet) siiski ei arvesta oma kvaliteedikulusid ja -tulusid. (vt tabel 3)



Tabel 3: Kvaliteedikulude ja -tulude kohta finantsarvestuse pidamine

See tõstatab küsimuse, mille alusel teostab juhtkond nendes ettevõtetes ISO 9000 standardis nõutud juhtkonna-poolset ülevaatus, hindamaks kvaliteedisüsteemi toimivust. Võiks oletada, et mitteamvestajad on väike- või mikroettevõtted, kuid küsitlusest ilmneb, et viies ettevõttes kuuest kvaliteedikulude ja -tulude mitteamvestajast on töötajaid vahemikus 30 – 70 ning ühel mitteamvestajal on töötajaid üle kaheksaja. Võib väita, et peaaegu viies küsitlusele vastanutest (kvaliteedikulusid- ja -tulusid mitteamvestajad) esindab ettevõtteid, kus kvaliteedisüsteem on sertifitseeritud rohkem välistel kui sisemistel põhjustel.

Erinevaid kululiike ja nende mõõtmist teostatakse järgmiselt:

Väliseid tõrkekulusid (*kvaliteediprobleemidega seotud kulud, mis tekivad pärast toote või teenuse müüki kliendile, näiteks reklamatsioonide labendamise seotud kulud, müüdüd toodete parandamine ja remont, garantiiasendused, tagasitoimetuskulud, halvenenud maine tõttu kaotatud kliendid*)

mõõdetakse 60 % vastanud ettevõtetest, kuid uurimusest ei selgu, mida konkreetsed ettevõtted tegelikult mõõdavad. 37 % ettevõtetest ei mõõda väliseid tõrkekulusid.

Mittemõõtjate hulgas on võrdselt tootmis- ja teenindusettevõtteid.

Sisemisi tõrkekulusid (*kvaliteediprobleemidega seotud kulud, mis tekivad ettevõtte sees, enne toote või teenuse müüki kliendile, näiteks praak, ümbertegemine, tõrgete analüüs jms*) mõõdetakse vähemalt osaliselt 40 % vastanud ettevõtetest. Väiksem arv kui väliste kulude mõõtmise osas on põhjendatav sellega, et sisemisi tõrkekulusid on välistest tõrkekuludest keerulisem hinnata. 51 % vastanuist ei mõõda sisemisi tõrkekulusid.

Ennetuskulusid (*kulud, mis tehakse kvaliteediprobleemide vältimiseks, näiteks toote või teenuse spetsifitseerimine, kvaliteedisüsteemi arendamine, koolitus jms*) jälgib 57 % ettevõtetest.

Ennetuskulud on veidi laialivalgum mõiste ning küsitlusest ei selgu, kui suures ulatuses ennetuskulusid jälgitakse.

Kvaliteedisüsteemi töökorras hoidmisega seotud kulud (*näiteks siseauditid*) jälgivad pooled (51 %) vastanutest.

Sertifitseerimiskulud (*sertifitseerimisauditid, järeldauditid jne*) on välised kulud, kuid siiski üllatavalt 11 % küsitlusele vastanud sertifitseeritud ettevõtetest ei arvesta neid kulusid.

Võimalik, et need kulud on kantud kokku teiste samaliigiliste kuludega ning seega ei leia eraldi kajastamist.

Konsultatsioonikulud (*kvaliteedijuhtimissüsteemi juurutamine ja arendamine*) ei arvesta 20 % ettevõtetest. Küll aga on osa vastanutest märkinud mitteamvestamise ka sel juhul, kui konsultante pole kasutatud ning seega suur number tingimata ei kajasta arvestuse pidamise ebatäpsust.

Kvaliteedieesmärkide finantsväärtused 2002. aastal

a) Kulude osas:

Välised tõrkekulud on 37 %-l vastanutest vähenenud võrreldes aastaga 2001.

Finantsväärtuste küsimus tundub olevat küsitletavate jaoks sensitiivne, kuna 20 % otsustas mitte avalikustada informatsiooni välise tõrkekulude vähenemise kohta.

Sisemised tõrkekulud on võrreldes aastaga 2001 vähenenud 26%-l vastanutest. 31 % jättis küsimusele vastamata. Sisemiste tõrkekulude mõõtmine on välise kulude mõõtmisest keerulisem.

Vastanute erinevused ja suhteliselt vähene arv ei luba teha lisajäreldusi tõrke-, ennetus- ning töökorras hoidmise kulude suuruse osas.

Sertifitseerimiskulud olid ettevõtetel keskmisel 50000 krooni.

Töötajate arvu järgi jaotusid sertifitseerimiskulud järgmiselt (vt tabel 4):

1 – 5 töötajat, keskmiselt 10000 krooni

6 – 15 töötajat, keskmiselt 10900 krooni

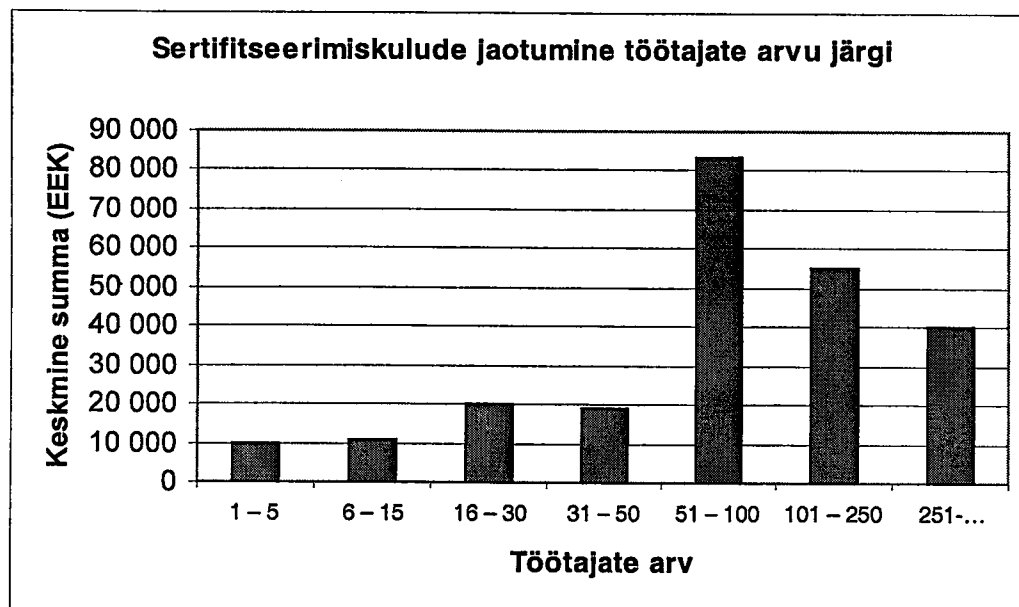
16 – 30 töötajat, keskmiselt 20000 krooni

31 – 50 töötajat, keskmiselt 19000 krooni

51 – 100 töötajat, keskmiselt 83125 krooni kuid miinimum oli 17000 ja maksimum 300000 krooni!

101 – 250 töötajat, keskmiselt 55258 krooni

üle 250 töötaja, keskmiselt 40000 krooni



Tabel

4: Sertifitseerimiskulude jaotumine töötajate arvu järgi

Sertifitseerimiskulude kõikumist võib seletada sellega, et sertifitseerimisteenust on raske diferentseerida ja seega on võimalik hindade osas kaubelda. Kuid see fakt ei põhjenda uurimuses ilmnevat maksumuste suurt erinevust, kuna on võimalik, et vastajad on saanud küsimusest erinevalt aru. Osa vastajatest võis arvestada üksnes järelvalve auditite maksumusi ning sertifitseerimiskuludesse võidi kanda lisaks sertifitseerimisasutuste kuludele ka muid sertifitseerimisega seondunud kulutusi.

Konsultatsioonikulud olid summa avalikustanud ettevõtetel keskmiselt 28000 krooni, varieerudes vahemikus 1.500 kuni 170000 krooni. Vastanute erinevused ja suhteliselt vähene arv ei luba teha lisajäreldusi konsultatsioonikulude suuruse osas.

b) Tulude osas:

ISO sertifikaadi omamine on andnud eeliseid partnerite leidmisel 43 % vastanutest ning 46% arvates ka klientide leidmisel. Välisklientide leidmisel on sertifikaat aidanud 26 % vastanutest. See on kõrge protsent, arvestades seda, et suur osa ettevõtetest ei tegele ekspordiga. On selgelt näha, et sertifikaat, mis on kolmanda osapoole sõltumatu tunnustus, mõjutab suhtlemist klientide ja partneritega positiivselt ja loob aluse usaldusele.

Enamus ettevõtetest (77%) ei mõõda kasvanud tellimuste arvu. Kaks erineva tegevusala (tootmine ja ehitus) ettevõtet töid välja konkreetse kasvanud tellimuste arvu.

Kokkuvõte:

Uuringu üks põhihüpoteesidest oli, et sertifitseeritud ettevõtted pole enamasti piisavalt teadlikud oma kvaliteedikuludest ja kvaliteedisüsteemi olemasolu finantsmõjudest.

Küsitluse tulemused kinnitasid selle hüpoteesi paikapidavust.

Tulude ja kulude arvestamise osas võib järeldada, et arvestamise praktika on enamasti puudulik ja väga ebaühtlane. Ebaühtlane praktika välistab kulude võrdlemise ettevõtete vahel. Selleks et teostada võrdlusi, tuleks hoolega jälgida võrreldavate ettevõtete arvestussüsteemide kokkusobivust. Ulatuslikumate järelduste tegemiseks ISO 9001 järgi sertifitseeritud ettevõtte kvaliteedisüsteemi mõjudest tuleks ettevõtet võrrelda sarnase mittesertifitseeritud ettevõttega. Kindlasti on järelduste tegemisel piiravaks lisateguriks sertifitseeritud ettevõtete vähesus, mis põhjustab vigu statistilistes analüüsid.

Umbkaudsed arvestused lubavad väita, et ettevõtetel on suur arenguruum täpsemate kvaliteedieesmärkide püstitamise osas. Siin võiksid tõhusalt kaasa aidata sertifitseerimisorganite audiitorid, kes peaksid praegusest rohkem otsima tõendeid pideva arengu kohta kvaliteedikulude ja –tulude arvestamise süsteemide arenemisest. Pidev areng nõuab loogiliselt pidevat arengunäitajate edenemist.

Finantsväärtuste ebatäpne arvestamine ja samas positiivsed tulemused partnerite leidmisel näidavad, et sertifikaadi omamise rõhuasetus ja tähendus ettevõtte jaoks on nii ettevõttesisesel kui -välisel kommunikatsioonil. Sertifikaadi olemasolu loob usaldusbaasi, olles organisatsiooni jaoks eelkõige tähtis väline tunnustus. Samas on väliste, autoriteeti omavate tunnustuskeemide valik praegu Eesti ühiskonnas liiga kitsas.

METROLOOGIA

ELEKTRIPAIGALDISTE PARAMEETRITE VÕRDLUSMÕÖTMINE

Edi Kulderknup
Eesti Akrediteerimiskeskus

1. Võrdlusmõõtmiste vajalikkus ja korraldus

Tasemekatsed on laboritevahelise võrdluse kasutamine, et määrata konkreetse labori esitus määratletud katse või kalibreerimiste osas ning võimaldada jälgida labori tulemuste vastavust ja võrreldavust. Tulemuste alusel on võimalik:

- hinnata labori võimet sooritada katset/kalibreerimist usaldavalt ja kompetentselt;
- paremini demonstreerida oma oskusi kliendile/hindajatele;
- kinnitada akrediteerimisnõuete täitmist;
- esitada riigiesindajatele tõendust;
- rakendada vajaduse korral parandusmeetmeid.

Elektripaigaldiste parameetrite võrdlusmõõtmine muutus oluliseks seoses akrediteerimisnõuete esitamise ja mõõtelaboritele seadusandluse (Elektriohutuseseadus) poolt. Võrdlusmõõtmine viidi läbi Eesti Akrediteerimiskeskuse ja TTÜ Katsekoja poolt Katsekoja Kalibreerimislabori ruumis elektripaigaldiste imitaatori AT abil. Mõõdeti elektripaigaldiste olulisemad parameetrid. Korraldamise aeg oli 02. – 09.12.2002.

Mõõtmisel osalesid 25 laborit ja lõplikult vormistatud tulemused esitati Eesti Akrediteerimiskeskusesse kahe nädala jooksul pärast mõõtmist kõigi osalejate laborite poolt.

2. Mõõtmiste läbiviimine

Iga labor viis läbi mõõtmised oma meetodi alusel ja seadmetega. Mõõdeti elektripaigaldiste järgmised parameetrid: rikkevoolukaitse kontroll/kaitsetagatis (näivtakistus; lühisvool I_k); kaitse- ja PEN-juhtide katkematus (takistus); isolatsioonitakistus (takistus teimipingetel 250 V, 500 V ja 1000 V); kaitse rakendusae (rakendumine vooludega $0,5I_{dn}$, I_{dn} ; ja $5I_{dn}$ ning faasidega 0° ja 180°) ja maandustakistus (takistus).

Imitaatoril oli tagatud:

- mõõtepunkt nr 6. $I_n = 40 \text{ A} / I_{dn} = 30 \text{ mA}$ ja mõõtepunkt nr 7. $I_n = 40 \text{ A} / I_{dn} = 100 \text{ mA}$ kaitse rakendusaja kontrollimiseks;
- mõõtepunkt nr 8. omadustega $0,5 \ \Omega / 2 \text{ mH}$; $1 \ \Omega / 1 \text{ mH}$ ja $5 \ \Omega / 0,2 \text{ mH}$ rikkevoolukaitse kontrollimiseks;

- mõõtepunktid nr 3. omadustega 2 MΩ/ 5 μH, 1000 V; nr 6. omadustega 4 mA ja 34 mA; 250 V ja nr 7. omadustega 1 MΩ, 4 MΩ ja 4 MΩ, 500 V isolatsioonitakistuse mõõtmiseks;

- pesa nr 8. omadustega 0,5 Ω/ 2 mH; 1 Ω/ 1 mH ja 5,0 Ω/ 0,2 mH kaitse- ja PEN-juhtide katkematus kontrollimiseks;

- lüliti 17. (1 Ω; 10 Ω; 100 Ω; 1 kΩ; 1,8 kΩ ja 2,2 kΩ) maandustakistuse mõõtmiseks.

Imitaatori parameetrite väärtuste liigse triivi vältimiseks viidi mõõtmised läbi nädala jooksul ning tagati ühtsed keskkonnatingimused. Kuivõrd imitaatori kaitselülitid olid elektroonsed, siis lülituste ajaline hajuvus ei tohiks ületada 10 μs ja sellest tulenev määramatus on vähene.

Imitaatori kasutamisel olid tagatud objekti vähene mõju mõõtmistele ja seetõttu oli rakendatud parima mõõtevõime mõiste kasutamine ning laboritel oli võimalus kontrollida oma parima mõõtevõime vastavust enda poolt eelnevalt deklareerituga. Laborid mõõtsid üksteisele järgnevalt ning mõõtmiseks anti ettemääratud aeg.

Korrektset vormistatud mõõteprotokollid täideti laborite poolt hiljem.

Kokkuvõtlikud mõõte- ja arvutustulemused on esitatud:

- tabelis 1, isolatsioonitakistus;
- tabelis 2, maandustakistus;
- tabelis 3, kaitse- ja PEN-juhtide katkematus kontroll;
- tabelis 4, rikkevoolukaitseseadmete kontroll;
- tabelis 5, kaitse rakendusaja kontroll.

3. Osavõtjad

Võrdlusmõõtmistes osalesid AS Ako Elekter, OÜ Alfard, AS BLRT ERA, AS Danite-Elekter, AS Fortum Termest, OÜ Elab; AS Elektrikontrollikeskus, AS Elektriteenused, AS Elektrisentrum, AS Elektrotherm, AS Eleväli, OÜ Elrato; OÜ Eltam Elekter, AS Elwo, AS Empower EEE; AS Erg Järva, OÜ Erko Elekter, AS E-Service, AS F-Elekter, AS KH Energia-Konsult, OÜ L.T.V.Projekt, OÜ Risaku, AS Ruubel TAM, Siemens Elektriservices AS Kõrgepingelabor ja AS Siivert.

4. Tulemuste töötlemise põhimõtted

Tulemused töötlesid Eesti Akrediteerimiskeskuse spetsialistid. Arvesse olid võetud laborite poolt esitatud mõõtetulemused, kuid liialt suure hälbega mõõtetulemusi ei arvestatud andmete statistilises töötlemises selleks, et vältida keskmise tulemuse ebaõigsust.

Tulemuste hindamiseks kasutati Z parameetri arvutamise põhimõtet, kuivõrd puudusid võimalused etalonväärtuse määramiseks. Mõõtetulemus on ISO Guide 43-1 järgi hea kui Z-väärtus on väiksem 1 ning rahuldav kui Z-väärtus on väiksem 2. Väärtus Z suurem kui 3 eeldab korrigeerivate meetmete rakendamist labori poolt. Sisuliselt näitab Z arv labori taset antud mõõtmistel osalenute keskmise tulemuse suhtes ja seetõttu elektripaigaldiste mõõtmistel on vahest olulisem suhteline hälve keskmisest väärtusest ning see ei tohiks olla suurem kui üldiselt heakskiidetud väärtus.

Mõõtetulemustele on arvatud osavõtjate tulemuste aritmeetiline keskmine iga parameetri kohta valemiga:

$$D_a = \frac{\sum_{i=1}^n D_i}{n}$$

kus D_i on labori mõõtetulemus antud mõõtekohtas ja n laborite arv.

Keskmise mõõtetulemuse standardhälve on arvatud valemiga:

$$s = \sqrt{\frac{1}{n(n-1)} \sum_{i=1}^n (D_i - D_a)^2}$$

Labori mõõtetulemuse suhteline hälve keskmisest on arvatud valemiga:

$$dx_i = \frac{D_i - D_a}{D_a} 100\%.$$

Labori Z-väärtus on arvatud valemiga:

$$Z = \frac{D_i - D_a}{s}$$

Mõõtetulemuse suhteline hälve peaks jääma väiksemaks kui mõõtmisel laiendmääramatus, et labori tegelik mõõtetulemus saaks asetseda laborite keskväärtusel \bar{E} (vt. joon 1).

Elektripaigaldiste mõõteprotsessi määramatus tuleneb järgmistest olulistest komponentidest:

- mõõtevahendist, liitmääramatus on saadav kalibreerija andmetest u_{mi} või $u_{mi} = \Delta/2$, kus Δ on mõõteriista veapiir taatlusel;
- skaala resolutsioonist ja lugemi võtmisest $u_r = JV/\sqrt{3}$, kus JV on digitaalskaala jaotiseväärtus;
- mõõtetulemuste erinevusest mõõtmiste vähesel kordamisel $u_v = (E_{max} - E_{min})/2\sqrt{3}$, kus E_{max} ja E_{min} on mõõtetulemuse piirväärtused kogumis;
- mõõteobjekti mittehomoogeensusest/-stabiilsusest u_{nh} ;
- ümbruskeskonna mõjust u_{env} ;
- teimi ja/või toitepinge erinevusest nimiväärtusest u_v .

Antud võrdlusmõõtmiste tingimuste korral omased arvutuslikku mõju ainult kolm esimest komponenti.

Võrdlusmõõtmise tulemuste alusel on võimalik hinnata lisaks nõ Eesti keskmist labori parimat mõõtevõimet. Võrdluskatsetel osales piisavalt suur arv osavõtjaid erinevate omadustega ja mõõteriistadega ning see tagab eeldatavasti mõõtetulemuste normaaljaotumist kokkuvõtlikult. See võimaldab leida laboritevahelist mõõtetulemuste hälvet 2 sigma tasemel, so $Z=2$ vastav hälve ongi keskmiseks parimaks mõõtevõimeks mõõteliigi osas. Antud suurus on lisatud iga tabeli lõppu.

5. Järeldused

Tabelites on küllaltki palju tulemusi, kus Z väärtus ületab 5 ning nendel laboritel tuleb kasutusele võtte konkreetsed parandusmeetmed.

Laborid esitati reeglina piisava põhjalikkusega mõõteprotokolle. Mõõteprotokollides peab nähtuma minimaalselt kõik olulised mõõteprotsessi mõjurite andmed. Mitmel juhul esines siiski andmete esitamisel ebatäpsusi mõõdetingimuste esitamisel (nt kaitse rakendusmisaja katsevoolu tüübi määratlemisel).

Laborite poolt viidati kasutamisel labori enda mõõtemetoodikatele. Õigem oleks aga viidata ka üldtunnustatud (standardiseeritud) meetodile, kuivõrd labori mõõtemetoodikad on sisuliselt meetodi täpsed töökirjeldused ning meetod ei ole välja mõeldud labori enda poolt.

Kasutati erinevaid mõõtevahendeid ning üldjuhul ei nähtunud korrelatsiooni mõõtetulemuse hälbe suuruse ja kasutatud mõõteriista tüübi vahel.

Mõõtetulemust on soovitatav usaldatavama tulemuse saamiseks korrata vähemalt 2 korda, mille vajalikkust nähtus ka laborite esitatud tulemustest.

Laborite poolt hinnati mõõteprotsessi määramatus, mis erinesid väärtustelt oluliselt.

Lubamatult suur on parim mõõtevõime 20 % kuni 30 % mõõtetulemusest antud tingimuste korral. Ligikaudu ¼ osavõtjatest ei olnud mõõtemääramatust hinnanud üldse.

Eeltoodust nähtub, et vajalik on määramatuse hindamise oskuste parandamine.

Mõõtemääramatuse tundmine on oluline vastavushinnangu andmisel piirväärtustele lähedastel väärtustel.

Tabel 1		ISOLATSIOONITAKISTUS											
Jrk	Mõõtekoht nr 7	Teimipinge			500 V			1000 V			250 V		
		L-N	L-PE	N-PE	L-N	L-PE	N-PE	L-N	L-PE	N-PE	L-N	L-PE	N-PE
		Δx_i [%]	Δx_i [%]	Δx_i [%]	Δx_i [%]	Δx_i [%]	Δx_i [%]	Δx_i [%]	Δx_i [%]	Δx_i [%]	Δx_i [%]	Δx_i [%]	Δx_i [%]
		z	z	z	z	z	z	z	z	z	z	z	z
		U	U	U	U	U	U	U	U	U	U	U	U
1	0,95	-0,3	-0,7	1,2	1,3	1,0	1,1	10%	2,01	10%	54	7	U niilap100X
2	0,94	-1,3	-3,3	-2,9	-3,1	-3,1	-3,2	0,12	2,0	0,12	50±3	7±2	BM403/2
3	0,95	-0,3	-0,7	-2,4	-2,6	-2,6	-2,7	-	2,0	-	60	10	BM223
4	0,92	-3,4	-8,5	-3,4	-3,6	-3,1	-3,2	0,17	1,98	0,17	50 *±4	10 **±0,04	BMM2000
5	0,944	-0,9	-2,2	-2,4	-2,6	-2,6	-2,7	0,039	2	0,039	54±4	7±3,8	CM500
6	0,946	-0,7	-1,7	-2,4	-2,6	-2,6	-2,7	15%	2,005	15%	50	10	KEW601
7	0,944	-1	-2,2	-2,4	-2,6	-2,6	-2,7	94 k	2,01	0,41	54±5,4	7±0,7	CM 500
8	0,982	3,1	7,8	8,0	8,5	7,8	8,1	18 k	2,00	0,16	54±4	7,0±0,6	CM300
9	0,982	3,1	7,8	8,0	8,5	7,8	8,1	22 k	2,00	0,11	54±3	7±2	CM300
10	0,96	0,8	2,0	-2,2	-2,3	-2,3	-2,5	0,22	2,03	0,29	60±210	10±200	BM222
11	0,94	-1,3	-3,3	-3,6	-3,8	-3,8	-4,0	20%	1,99	20%	50	10	BM403/2
12	0,93	-2,4	-5,9	-2,9	-3,1	-3,1	-3,2	(3)	1,99	(3)	54(2)	7(1)	CM500
13	0,982	3,1	7,8	8,0	8,5	7,8	8,1	6%	2	6%	54	7	CM500
14	0,979	2,8	7,0	7,7	8,2	7,5	7,9	15%	2,00	15%	54	7	CM500
15	0,981	3,0	7,5	8,0	8,5	7,8	8,1	10%	2	10%	54	7	CM500
16	0,979	2,8	7,0	8,0	8,5	7,8	8,1	0,023	2	0,069	54	7	CM300
17	0,95	-0,3	-0,7	-2,6	-2,8	-2,8	-3,0	10%	2,01	10%	60	10	BM123
18	0,944	-0,9	-2,2	-2,9	-3,1	-3,1	-3,2	10%	2,03	10%	55	7	Ultratest
19	0,97	1,8	4,6	0,7	0,8	0,5	0,6	20%	1,98	20%	54	7	CM500
20	0,94	-1,3	-3,3	-2,9	-3,1	-3,1	-3,2	3%	2,0	3%	54	-	CM100
21	0,93	-2,4	-5,9	-3,6	-3,8	-3,8	-4,0	10%	1,98	10%	-	-	M6010
22	0,93	-2,4	-5,9	-3,8	-4,1	-	-	0,09	1,98	0,09	-	-	Multiteste
23	0,94	-1,3	-3,3	-3,4	-3,6	-3,5	-3,7	-	2,01	-	54	7	CM100
24	0,95	-0,3	-0,7	-2,6	-2,8	-2,8	-3,0	30 k	2,0	30 k	-	-	Profitest1
25	0,95	-0,3	-0,7	-3,1	-3,3	-3,1	-3,2	0,14	2,01	0,14	100±20	60±20	BM223
	0,953								2,00				Keskmine
	0,004								0,003				Keskmine st.hälve
		0,8 %	z=2		2,0 %	z=2							Keskmine parim mõõtevõime
						2,2 %	z=2						

Tabel 2 (järg)		MAANDUSTAKISTUS														Mõõte- vahend
Jrk	1 k Ω	1,8 k Ω														2,2 k Ω
	Sond	Sond														Sond
n r	1 Ω	100 Ω	dx_i [%]	z	4,7 k Ω	U	1 Ω	100 Ω	dx_i [%]	z	4,7 k Ω	U	1 Ω	100 Ω	4,7 k Ω	U
1	990	990	-1,9	-11,8	1006	15%	1760	1770	-2,7	-14,4	1816	15%	2150	2140	2230	15%
2	1013	1013	0,4	2,6	1013	52,8	1825	1825	0,4	1,9	1829	94,3	-	-	-	-
3	1010	1010	0,1	0,7	1010	-	-	-	-	-	-	-	-	-	-	-
4	1016	1016	0,7	4,5	1016	100	1826	1827	0,5	2,5	1827	180	-	-	-	-
5	-	1000	-0,9	-5,5	1000	20	-	1804	-0,8	-4,3	1805	37	-	2211	2211	45
6	-	1004	-0,5	-3,0	-	30%	-	1813	-0,3	-1,6	-	30%	2219	-	-	30%
7	998	998	-1	-6,8	1000	100	1804	1804	-1	-4,3	1807	180	-	-	-	-
8	-	1004	-0,5	-3,0	-	60	-	-	-	-	-	-	-	-	-	-
9	1018	1018	0,9	5,7	1018	53,9	1829	1829	0,6	3,1	1829	94,5	-	-	-	-
10	-	1016	0,7	4,5	-	31	-	1824	0,3	1,6	-	72	2250	-	-	310
11	1018	1018	0,9	5,7	1018	20%	1828	1827	0,5	2,5	1827	20%	2270	2270	2270	20%
12	-	1014	0,5	3,2	-	(10)	-	1826	0,4	2,2	-	(12)	2260	-	-	(12)
13	1000	1000	-0,9	-5,5	1000	30%	-	-	-	-	-	-	-	-	-	-
14	1016	1015	0,6	3,9	1016	20%	1826	1825	0,4	1,9	1826	20%	2260	2260	2260	20%
15	1020	1020	1,1	7,0	-	75	-	-	-	-	-	-	-	-	-	-
16	1006	1006	-0,3	-1,8	1006	11,5	1817	1817	-0,1	-0,4	1817	19,7	-	-	-	-
17	-	1000	-0,9	-5,5	-	-	-	-	-	-	-	-	-	-	-	-
18	1010	1010	0,1	0,7	1011	30%	1827	1828	0,5	2,8	1828	30%	-	-	-	-
19	1014	1014	0,5	3,2	1014	30%	1828	1828	0,5	2,8	1828	30%	-	-	-	-
20	-	1008	-0,1	-0,5	-	16%	-	1820	0,1	0,4	-	16%	-	-	-	-
21	1010	1010	0,1	0,7	1001	15%	1823	1823	0,2	1,3	1806	15%	-	-	-	-
22	1012	-	-	-	1003	30%	-	-	-	-	-	30%	-	-	-	-
23	-	1006	-	-	-	-	-	1818	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	1013	0,4	2,6	-	10	-	1825	0,4	1,9	-	18	-	2240	-	22
		1009						1819								Keskmine X
		1,6						3,4								
Parim keskmine mv			0,3 %	$z=2$					0,3 %	$z=2$						
																Keskmine st.hälve

Tabel 3		KAITSE- JA PEN JUHTIDE KATKEMATUSE KONTROLL														
Jrk	PE-N	nr 8 p.pesa				1,0 Ω/				5,0 Ω/				0,2 mH	Mõõte- vahend	
nr	R	U	z	Ω	R	U	z	Ω	R	U	z	Ω	R	U		
	dx ₁ [%]				dx ₁ [%]				dx ₁ [%]				dx ₁ [%]			
1	0,58	0,11	-0,1	0,91	0,91	0,11	-0,1	0,91	0,91	0,11	-0,1	0,91	0,91	0,11	0,55	Unilap100
2	0,6	0,02	1,4	0,92	0,92	0,02	1,4	0,92	0,92	0,02	1,4	0,92	0,92	0,02	0,11	-
3	1,0e	-	-	1,2	1,2	-	-	1,2	1,2	-	-	1,2	1,2	-	-	BM223
4	0,56	0,05	-1,5	0,88	0,88	0,05	-1,5	0,88	0,88	0,05	-1,5	0,88	0,88	0,05	0,20	BMM2000
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	0,55	20%	-2,2	0,9	0,9	20%	-2,2	0,9	0,9	20%	-2,2	0,9	0,9	20%	20%	KEW6012
7	0,51	0,05	-5,1	0,86	0,86	0,05	-5,1	0,86	0,86	0,05	-5,1	0,86	0,86	0,05	0,51	CM500
8	0,51	0,034	-5,1	1,07	1,07	0,034	-5,1	1,07	1,07	0,034	-5,1	1,07	1,07	0,034	0,37	CM300
9	0,61	0,03	2,1	0,95	0,95	0,03	2,1	0,95	0,95	0,03	2,1	0,95	0,95	0,03	0,12	CM300
10	0,60	0,212	1,4	0,93	0,93	0,212	1,4	0,93	0,93	0,212	1,4	0,93	0,93	0,212	0,212	BM222
11	0,8	20%	15,8	1,1	1,1	20%	15,8	1,1	1,1	20%	15,8	1,1	1,1	20%	20%	BM403/2
12	0,55	(2)	-2,2	0,89	0,89	(2)	-2,2	0,89	0,89	(2)	-2,2	0,89	0,89	(2)	(2)	CM500
13	0,61	6%	2,1	0,94	0,94	6%	2,1	0,94	0,94	6%	2,1	0,94	0,94	6%	6%	CM500
14	0,56	20%	-1,5	0,93	0,93	20%	-1,5	0,93	0,93	20%	-1,5	0,93	0,93	20%	20%	CM500
15	0,54	0,14	-2,9	0,87	0,87	0,14	-2,9	0,87	0,87	0,14	-2,9	0,87	0,87	0,14	0,49	CM500
16	0,57	0,017	-0,8	0,9	0,9	0,017	-0,8	0,9	0,9	0,017	-0,8	0,9	0,9	0,017	0,125	CM300
17	0,53	16%	-3,7	0,93	0,93	16%	-3,7	0,93	0,93	16%	-3,7	0,93	0,93	16%	16%	Saturn100
18	0,51	0,11	-5,1	0,94	0,94	0,11	-5,1	0,94	0,94	0,11	-5,1	0,94	0,94	0,11	0,57	Ultratest
19	0,66	30%	5,7	1,25	1,25	30%	5,7	1,25	1,25	30%	5,7	1,25	1,25	30%	30%	CM500
20	0,54	7,50%	-2,9	0,95	0,95	7,50%	-2,9	0,95	0,95	7,50%	-2,9	0,95	0,95	7,50%	7,50%	CM100
21	0,55	10%	-2,2	1,15	1,15	10%	-2,2	1,15	1,15	10%	-2,2	1,15	1,15	10%	10%	M6010
22	0,58	0,16	-0,1	0,88	0,88	0,16	-0,1	0,88	0,88	0,16	-0,1	0,88	0,88	0,16	0,49	M6010
23	0,70	-	8,6	0,94	0,94	-	8,6	0,94	0,94	-	8,6	0,94	0,94	-	-	CM100
24	0,54	0,03	-2,9	0,93	0,93	0,03	-2,9	0,93	0,93	0,03	-2,9	0,93	0,93	0,03	0,03	Profitest1
25	0,60	0,04	1,4	0,89	0,89	0,04	1,4	0,89	0,89	0,04	1,4	0,89	0,89	0,04	0,17	BM223
	0,58			0,96	0,96			0,96	0,96			0,96	0,96			Keskmine
Keskmine	0,01		z=2	0,02	0,02		z=2	0,02	0,02		z=2	0,02	0,02			Keskmise
parim mõõtevõime	4,4 %		4,5 %	4,5 %	4,5 %		4,5 %	4,5 %	4,5 %		4,5 %	4,5 %	4,5 %		0,7 %	z=2

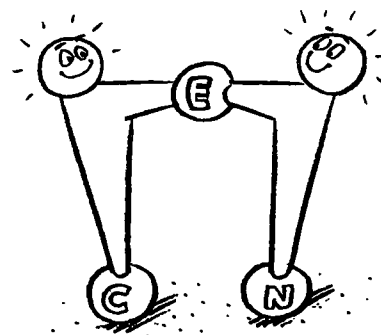
Tabel 4		RIKKVOOLUKATSEADMETE KONTROLL										(Rakendustagatis)					
Jrk	Näivtakistus		Ω		mH		dx_i [%]		z		U		Määratud lühisvool I_k [A]		Mõõte- vahend		
	Mõõtepunkt Nr 8	dx_i [%]	z	U	1 Ω /1mH	dx_i [%]	z	U	5 Ω /0,2m	dx_i [%]	z	U	0,5 Ω /2m	1 Ω /1mH		5 Ω /0,2mH	
1	1,54	5,1	3,3	0,2	1,80	3,1	3,5	0,20	6,10	5,5	10,1	0,2	141	121	36	Unilap100XE	
2	1,49	1,7	1,1	0,07	1,79	2,5	2,8	0,075	5,83	0,9	1,6	0,23	-	-	-	LT5	
3	1,46	-0,3	-0,2	-	1,73	-0,9	-1,0	-	5,84	1,0	1,9	-	0,16	0,13	0,03	LT7	
4	1,67	14,0	9,0	0,15	1,63	-6,6	-7,3	0,15	5,60	-3,1	-5,7	0,45	137,7	142	41,1	LCB2500	
5	1,48	1,1	0,7	-	1,77	1,4	1,6	-	5,84	1,0	1,9	-	142	119	36	CM500	
6	1,47	0,4	0,2	15%	1,74	-0,3	-0,4	15%	5,77	-0,2	-0,3	15%	156	132	40	KEW 6015	
7	1,56	6,5	4,2	0,16	1,77	1,4	1,6	0,18	5,87	1,5	2,8	0,59	-	-	-	CM500	
8	1,42	-3,0	-2,0	0,09	1,68	-3,8	-4,2	0,11	5,45	-5,7	-10,5	0,36	154,9	131,0	40,4	KEW 610A	
9	1,2	-18,1	-11,6	0,078	1,7	-2,6	-2,9	0,098	5,64	-2,4	-4,5	0,78	-	-	-	CM300	
10	1,43	-2,4	-1,5	0,35	1,72	-1,5	-1,6	0,50	5,61	-3,0	-5,4	0,92	161	133	40	LCB2500	
11	-	-	-	-	1,73	-0,9	-1,0	20%	5,70	-1,4	-2,6	20%	-	133	40	LT5	
12	1,46	-0,3	-0,2	(4)	1,74	-0,3	-0,4	(4)	5,69	-1,6	-2,9	(4)	-	-	-	CM500	
13	1,47	0,4	0,2	6%	1,76	0,8	0,9	6%	5,71	-1,2	-2,2	6%	149,66	125,00	38,53	CM500	
14	1,47	0,4	0,2	15%	1,75	0,3	0,3	15%	5,97	3,3	6,0	15%	156	131	39	CM500	
15	1,48	1,1	0,7	0,3	1,76	0,8	0,9	0,4	5,81	0,5	0,9	0,8	155	130	40	CM500	
16	1,48	1,1	0,7	-	1,69	-3,2	-3,5	-	5,85	1,2	2,2	-	155,40	136,09	39,31	CM300	
17	1,43	-2,4	-1,5	10%	1,70	-2,6	-2,9	10%	5,8	0,3	0,6	10%	159	134	39	Saturn 100	
18	1,49	1,7	1,1	0,18	1,78	2,0	2,2	0,18	5,78	0,0	0,0	0,18	146	121	37	Ultratest	
19	1,22	-16,7	-10,8	20%	1,55	-11,2	-12,4	20%	5,44	-5,9	-10,8	20%	180	142	40	CM500	
20	1,61	9,9	6,4	7,5%	1,78	2,0	2,2	7,50%	5,79	0,2	0,3	7,50%	148,7	134,8	41,4	CM100	
21	1,46	-0,3	-0,2	10%	1,75	0,3	0,3	10%	5,74	-0,7	-1,3	10%	151	126	38	M6010	
22	1,50	2,4	1,6	0,19	1,80	3,1	3,5	0,19	5,84	1,0	1,9	0,19	139	116	35	M6010	
23	1,66	13,3	8,6	-	1,82	4,3	4,7	-	5,84	1,0	1,9	-	144	132	41	LT5	
24	1,4	-4,4	-2,8	0,03	1,7	-2,6	-2,9	0,03	6,01	4,0	7,3	0,03	161	135	38	Profitest100S	
25	1,3	-11,2	-7,2	0,18	2,0	14,6	16,2	0,18	6,0	3,8	6,9	0,18	-	-	-	LT7	
	1,46				1,75				5,78							Keskmine X	
	0,023				0,016				0,032							Keskmine st.hälve	
Keskmine parim																	
mõõtevõime		3,0 %	z=2			1,9 %	z=2			1,1 %	z=2						

Tabel 5 KAITSE RAKENDUSAJA KONTROLL

Jrk	Voo- lülilik	Mõõtepunkt nr 6 $I_n = 40 \text{ A} / I_{dn} = 30 \text{ mA}$				Mõõtepunkt nr 7 $I_n = 40 \text{ A} / I_{dn} = 100 \text{ mA}$				Rakendumisaeg ms												
		nr 6	nr 7	dx_i [%]	z	U	nr 7	dx_i [%]	z	U	nr 7	dx_i [%]	z	U								
		$I_{dn}; \text{faas} = 0^\circ$				$I_{dn}; \text{faas} = 180^\circ$																
1	-	ei	-	20	2,3	4,1	-	4	1,2	324	16,4	6,3	36	36	30	2,4	1,4	5	350	24,0	8,1	39
2	A/A	ei	ei	28,6e	-	-	-	1,2	-	260,9	-6,3	-2,4	3,6	3,6	30	2,4	1,4	1,3	259,0	-8,2	-2,8	3,6
3	A/A	ei	ei	18,7	-4,4	-7,8	-	-	-	254,0	-8,8	-3,3	-	-	28,6	-2,4	-1,4	-	248,0	-12,1	-4,1	-
4	AC/A	ei	ei	19,1	-2,3	-4,2	-	2,0	-	254	-8,8	-3,3	5	5	11,2e	-	-	2,0	248	-12,1	-4,1	5
5	A	ei	ei	ja	-	-	-	-	-	ja	-	-	-	-	ja	-	-	-	ja	-	-	-
6	A/A	ei	ei	20,2	3,3	5,9	10%	10%	10%	271	-2,6	-1,0	10%	10%	31,2	6,5	3,7	10%	271	-4,0	-1,3	10%
7	AC/A	ei	ei	19,5	-0,3	-0,5	-	-	-	-	-	-	-	-	29,4	0,4	0,2	-	-	-	-	-
8	AC/AC	ei	ei	19,4	-0,8	-1,4	1,2	1,2	1,2	241	-13,4	-5,1	-	-	29,3	0,0	0,0	1,3	248	-12,1	-4,1	-
9	-	ei	ei	19,4	-0,8	-1,4	1,2	1,2	1,2	266	-4,4	-1,7	3,7	3,7	29,5	0,7	0,4	1,5	264	-6,5	-2,2	3,7
10	-	ei	ei	19,7	0,7	1,3	1,4	1,4	1,4	249	-10,5	-4,0	15	15	29,2	-0,3	-0,2	1,5	262	-7,2	-2,4	15
11	-	ei	ei	18,7	-4,4	-7,8	20%	20%	20%	287,6	3,3	1,3	20%	20%	31,2	6,5	3,7	20%	288,2	2,1	0,7	20%
12	-	ei	ei	19,4	-0,8	-1,4	(5)	(5)	(5)	263	-5,5	-2,1	(6)	(6)	29,4	0,4	0,2	(6)	265	-6,1	-2,1	(6)
13	AC/AC	ei	ei	ja	-	-	-	-	-	ja	-	-	-	-	ja	-	-	-	ja	-	-	-
14	AC/A	ei	ei	19,4	-0,8	-1,4	10%	10%	10%	-	-	-	-	-	29,4	0,4	0,2	10%	-	-	-	-
15	-	ei	ei	ja	-	-	-	-	-	ja	-	-	-	-	ja	-	-	-	ja	-	-	-
16	AC/AC	ei	ei	19,5	-0,3	-0,5	1,2	1,2	1,2	277	-0,5	-0,2	3,8	3,8	29,5	0,7	0,4	1,3	258	-8,6	-2,9	3,6
17	AC/A	ei	ei	20,6	5,3	9,6	10,8%	10,8%	10,8%	260	-6,6	-2,5	10,8%	10,8%	30,5	4,1	2,3	10,8%	255	-9,6	-3,3	10,8%
18	AC/A	ei	ei	19,9	1,8	3,2	6,0	6,0	6,0	267	-4,1	-1,6	31	31	20,0	-31,7	-18,1	6,0	261	-7,5	-2,5	30
19	AC/AC	ei	ei	19,5	-0,3	-0,5	20%	20%	20%	348	25,0	9,5	20%	20%	29,4	0,4	0,2	20%	355	25,8	8,7	20%
20	AC/AC	ei	ei	19,3	-1,3	-2,3	7,50%	7,50%	7,50%	269	-3,4	-1,3	7,50%	7,50%	30,2	3,1	1,8	7,50%	294	4,2	1,4	7,50%
21	AC/A	ei	ei	20	2,3	4,1	8%	8%	8%	343	23,2	8,9	8%	8%	30	2,4	1,4	8%	350	24,0	8,1	8%
22	209V	ei	ei	19	-2,8	-5,1	5,0	5,0	5,0	319	14,6	5,6	31	31	30	2,4	1,4	5,7	322	14,1	4,8	32
23	-	-	ei	20,1	2,8	5,0	-	-	-	282	1,3	0,5	-	-	30,5	4,1	2,3	-	300	6,3	2,1	-
24	A/A	ei	ei	ja	-	-	-	-	-	ja	-	-	-	-	ja	-	-	-	ja	-	-	-
25	A/A	ei	ei	19,7	0,7	1,3	2,2	2,2	2,2	253,4	-9,0	-3,4	4,2	4,2	28,6	-2,4	-1,4	2,2	263,9	-6,5	-2,2	4,2
	Keskmine			19,6						278,36					29,3				282,2			
	Keskmise st.hälve			0,11						7,30					0,51				8,36			
	Parim keskmine mõõtevõime			1,1 %	z=2	z=2				5,2 %	z=2	z=2			3,4 %	z=2	z=2		6,2 %	z=2	z=2	

Tabel 5 järg		KAITSE RAKENDUSAJA KONTROLL												Mõõte-		
Jrk	nr	5 / _{dn} ; faas = 0°			Rakendumisaeg ms			5 / _{dn} ; faas = 180°			Rakendus-			vahend		
		nr 6	dx _i [%]	z	U	nr 7	dx _i [%]	z	U	nr 6	dx _i [%]	z	U		nr 6	nr 7
1	18	4,8	10,2	4	-	-	-	8	-3,8	-1,5	3	-	-	18	78	Unilap 100X
2	16,8	-2,2	-4,6	1,2	0,3	0,5	1,7	7,6	-8,6	-3,3	1,1	66,7	0,4	0,7	1,7	CBT4
3	17,0	-1,0	-2,1	-	-7,6	-11,3	-	8,5	2,2	0,8	-	66,6	0,2	0,4	-	CBT4
4	17,0	-1,0	-2,1	2	2,3	3,4	2,4	7,8	-6,2	-2,4	2,0	65,8	-1,0	-1,8	2,4	LCB2500
5	17,3	0,7	1,6	-	0,0	0,0	-	7,4	-11,0	-4,2	-	66,3	-0,2	-0,4	-	CM500
6	17,7	3,1	6,5	10%	2,6	3,9	10%	8,7	4,6	1,8	10%	67,4	1,4	2,6	10%	KEW601E
7	17,2	0,2	0,3	-	-	-	-	27,3A	-	-	-	-	-	-	-	CM500
8	17,2	0,2	0,3	1,2	-	-	-	27,2A	-	-	1,3	-	-	21,0	72	CM300
9	17,3	0,7	1,6	1,2	-	-	-	11,1	33,5	12,8	1,1	-	-	22,2	80	CM300
10	16,9	-1,6	-3,3	1,4	-0,3	-0,4	11	7,5	-9,8	-3,8	1,2	64,9	-2,3	-4,3	11	LCB2500
11	16,7	-2,7	-5,8	20%	-1,6	-2,4	20%	7,6	-8,6	-3,3	20%	62,5	-5,9	-11	20%	CBT4
12	17,4	1,3	2,8	(5)	-	-	-	9,4	13,0	5,0	(5)	-	-	20	78	CM500
13	17,6	2,5	5,2	6%	-0,3	-0,4	6%	27,5A	-	-	6%	66,2	-0,4	-0,7	6%	CM500
14	17,7	3,1	6,5	10%	-	-	-	9,5	14,2	5,5	10%	-	-	20,0	76	CM500
15	17,5	1,9	4,0	5,1	-0,4	-0,6	8,0	27,5A	-	-	5,6	66,1	-0,5	-1,0	7,9	CM500
16	17,2	0,2	0,3	67	1,5	2,3	1,7	27,3A	-	-	1,3	66	-0,7	-1,3	1,7	CM300
17	16,8	-2,2	-4,6	10,8%	0,0	0,0	10,8%	7,6	-8,6	-3,3	10,8%	66,3	-0,2	-0,4	10,8%	CBT4
18	17,3	0,7	1,6	5,7	3,4	5,0	10,8	27,2A	-	-	6,7	67,5	1,6	2,9	10,8	Ultratest
19	17,2	0,2	0,3	20%	1,5	2,3	20%	8,1	-2,6	-1,0	20%	69	3,8	7,0	20%	CM500
20	17,6	2,5	5,2	7,50%	-	-	-	9,5	14,2	5,5	7,50%	-	-	21	80	CM100
21	17	-1,0	-2,1	8%	-1,5	-2,2	8%	8	-3,8	-1,5	8%	67	0,8	1,5	8%	M6010
22	16	-6,8	-14,4	4,4	3,1	4,6	8,9	8	-3,8	-1,5	3,7	69	3,8	7,0	9,2	M6010
23	16,9	-1,6	-3,3	-	-	-	-	7,8	-6,2	-2,4	-	-	-	-	-	CM100
24	17	-1,0	-2,1	3,35	-4,5	-6,7	3,35	8	-3,8	-1,5	3,35	67	0,8	1,5	3,35	6010
25	17,0	-1,0	-2,1	2,1	1,4	2,1	1,6	7,9	-5,0	-1,9	2,1	65,4	-1,6	-2,9	1,6	RCD
17,2					66,0			8,32				66,5				Keskmine X
0,08					0,44			0,22				0,36				Keskmine st.häve
Parim km		1,0 %	z=2		1,3 %	z=2			5,2 %	z=2			1,0 %	z=2		

CEN UUDISED



Toiduainete standardimisest CEN-is

CEN on koostanud 266 toiduainete standardit, peamiselt proovivõtu ja katsemeetodite kohta, mis on välja töötatud seitsmes tehnilises komitees:

TC 174	Puu- ja juurviljamahlad. Analüüsimetodid
TC 194	Toiduga kokkupuutuvad nõud
TC 275	Toiduainete analüüs. Horisontaalmeetodid
TC 302	Piim ja piimatooted. Analüüsi- ja proovivõtu meetodid
TC 307	Õlikultuuride seemned. Loomsed ja taimsed rasvad ja õlid ning nende kõrvalsaadused. Proovivõtu ja analüüsi meetodid
TC 327	Loomasöödad. Proovivõtu ja analüüsi meetodid
TC 338	Teraviljad ja teraviljatooted

CEN/TC 275 on koostanud üle 50 standardi, mis käsitlevad mikrobioloogia meetodeid, raskemetallide ja lisainete sisaldust toiduainetes, toidu kiiritamise avastamist jne

Viis CEN-i standardit kiirituse avastamise kohta toiduainetes on üle võetud kui CODEX Alimentariuse põhimeetodid.

EN 1784:1996	Foodstuffs - Detection of irradiated food containing fat - Gas chromatography of hydrocarbons
EN 1785:1996	Foodstuffs - Detection of irradiated food containing fat - Gas chromatographic analysis of 2-alkylcyclobutanones
EN 1786:1996	Foodstuffs - Detection of irradiated food containing bone - Method by ESR spectroscopy
EN 1787:2000	Foodstuffs - Detection of irradiated food containing cellulose by ESR spectroscopy
EN 1788:2001	Foodstuffs - Thermoluminescence detection of irradiated food from which silicate materials can be isolated

Harmoneeritud standarditest

Surveseadmete direktiivi PED alusel kavandatakse muuta harmoneeritud standardite klassifikatsiooni.

Surveseadmete direktiivi juurde kuuluvad enam kui 800 standardit jagunevad käesoleval ajal alljärgnevalt:

Harmoneeritud standardid (Harmonised standards H)

Standardid, mis on koostatud EÜ/EFTA mandaadi alusel direktiivi oluliste nõuete toetuseks ning mille täitmise tulemusena saab toode CE märgistuse. Neile tootestandarditele viidatakse EÜ Ametlikus Teatajas.

Harmoneeritud tugistandardid (Harmonised supporting standards HS)

Standardid, mis on koostatud EÜ/EFTA mandaadi alusel direktiivi oluliste nõuete toetuseks, kuid mille järgi ei saa CE märgistust. Siia kuuluvad nt materjalide ja keevituse standardid ja neile ei viidata EÜ Ametlikus Teatajas.

Tugistandardid (Supporting standards S)

Standardid, mis on koostatud EÜ/EFTA mandaadi alusel või mis on lülitatud mandaadi koosseisu ning mis on olulised vastavuse korral harmoneeritud standarditele, kuid ei täida surveseadmete direktiivi mõnda olulist ohutusnõuet. Nendele standarditele ei viidata EÜ Ametlikus Teatajas.

Edaspidi on kavas jaotada harmoneeritud standardid kaheks tüübiks.

Tüüp 1: standardid, mis pakuvad tehnilisi lahendusi spetsiifiliste oluliste ohutusnõuete täitmiseks. Need võivad olla nt toote-, materjali või personali sertifitseerimise standardid. Tüüp 1 standarditele viidatakse EÜ Ametlikus Teatajas.

Tüüp 2: Standardid, mis pakuvad kasulikke elemente oluliste ohutusnõuete täitmise tõendamiseks, kuid ei anna omaette vastavuseeldust olulistele ohutusnõuetele. Siia kuuluvad näiteks katsestandardid, üldpõhimõtete ja terminoloogia standardid. Nendele standarditele ei avaldata viidet EÜ Ametlikus Teatajas, neid võib kasutada normatiivviidetena tüüp 1 standardites.

ISO UUDISED

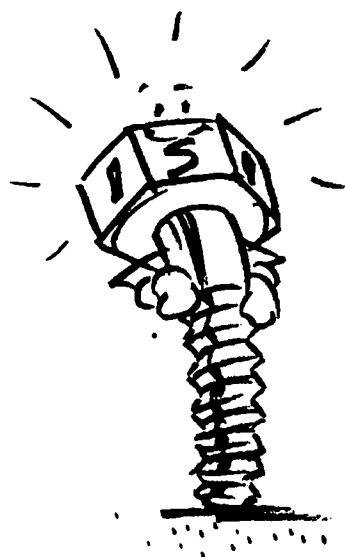
ISO ARVUDES

ISO ARVUDES 2003 JAANUAR

LIIKMED	146	Rahvuslikku standardiorganit s.h
	94	täisliiget
	37	kirjavahetajaliiget
	15	abonentliiget

TEHNILISTE KOMITEEDE STRUKTUUR	2937 s.h	Komiteed
	188	tehnilist komiteed
	550	alamkomiteed
	2175	töögrupp
	24	ühelikordset uurimisgrupp

Üksikasjalikumalt vt. ISO Memento



PERSONAL

Tehnilised sekretariaadid

36 liikmesriigis on mingi tehnilise komitee või alamkomitee tööd organiseeriv ja teenindav sekretariaat

Komiteede teenindamisega tegeleb

500 täiskohaga töötajat

Kesksekretariaat Genfis

163 täiskohaga töötajat

25 riigist koordineerivad ISO ülemaailmset tegevust

FINANTSEERIMINE 140

miljonit CHF ISO tegevuse eelarvelisteks kuludeks, millest

80% finantseeritakse otse

36 TC või SC sekretariaati teenindava liikmesriigi poolt

20% liikmete tellimustest ja kirjastustuludest, millega

kaetakse Kesksekretariaadi kulud

RAHVUSVAHELISED STANDARDID

Kokku seisuga 31.12.2002	13 736	rahvusvahelist standardit ja standardilaadset dokumenti s.o
2002. aastal	459 035	lehekülge inglise ja prantsuse keeles
	889	rahvusvahelist standardit ja standardilaadset dokumenti
	41 112	lehekülge 2002. a

TÖÖS ON

31. detsembri 2002. seisuga	4437	kavandit tehniliste komiteede programmides sealhulgas
	1243	kavandit ettevalmistusstaadiumis
	1092	registreeritud komitee kavandit
	2102	rahvusvahelise standardi kavandit (DIS, FDIS)
2002. aastal	587	uut tööd registreeritud
	528	uut kavandit, mis on saavutanud komitee kavandi staatuse
	1875	rahvusvahelise standardi kavandit (DIS; FDIS) registreeritud

Üksikasjalikumalt vaata ISO Technical Programme

Tegevusalad ICS järgi	ISO Standardite kavandid DIS, FDIS		Standardid			
	uued	kokku	uued	lk	kokku	lk
Üldküsimumused, infrastruktuurid ja teadus	160	197	73	2938	1269	39007
Tervis, ohutus ja keskkond	103	111	46	1928	557	16511
Inseneritehnoloogiad	466	573	229	11721	3330	126724
Elektroonika, IT ja telekommunikatsioon	305	298	209	13358	2168	135264
Transport ja logistika	222	255	97	3780	1494	35057
Põllumajandus ja toiduainete tehnoloogia	108	87	51	1444	877	17293
Materjalide tehnoloogiad	443	494	168	5495	3617	78266
Ehitus	58	74	12	336	286	8123
Eritehnoloogiad	10	13	4	112	118	2790
Kokku	1875	2102	889	41112	13736	459035

Märkus: Uued 1. jaan kuni 31. dets 2002

Kokku: 31. detsembril 2002

TÖÖKOOSOLEKUD 2002.aastal	11	tehnilist koosolekut keskmiselt igal tööpäeval üle kogu maailma
	1152	töökooolekut viidi läbi 29 riigis, s.h
	97	tehnilise komitee koosolekut
	294	alamkomitee koosolekut
	761	töögruppide koosolekut

KOOSTÖÖPARTNERID 562 rahvusvahelist organisatsiooni teevad koostööd ISO tehniliste komiteede ja alakomiteedega

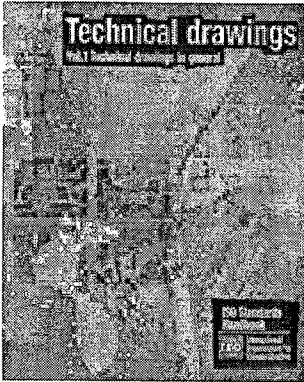
Üksikasjalikumalt vt ISO Liaisons

**TEHNILISE INFO KÄTTE-
SAADAVUS
ELEKTROONILISELT**

Kogu info ISO standardimistegevusest (k.a Kataloog ja Memento) on kättesaadav ka www.iso.org
Kasutajad leiavad siit
13 736 ISO standardi bibliograafilist kirjet ja
4 437 ISO standardikavandi bibliograafilist kirjet
ISO Online kaudu World Standards Services Network (WSSN) on võimalik saada otse infot rahvusvaheliste, Euroopa ja rahvuslike standardiorganisatsioonide standardi, tehnilisele eeskirja jm standardilaadse dokumendi kohta
700 000

UUED TRÜKISED

WTO TBT Standards Code Directory



WTO TBT CODE (Code of Good Practice for the Preparation, Adoption and Application of Standards) 9. väljaanne toob ära nüüdseks 143- ni tõusnud koodiga liitunud standardiorganisatsioonide aadressid ja info nende tööprogrammide kättesaadavuse kohta.

ISO Standards Handbook

Technical drawings (2 volumes)

Osa 1: Tehniline joonestamine (*Technical drawings in general*) CHF 230.-

Osa 2: Masinaehitusjoonestamine, ehitusjoonestamine, joonestamisvahendid (*Mechanical engineering drawings; construction drawings; drawing equipment*) CHF 258.-

HARMONEERITUKS TUNNISTATUD STANDARDID

Tehnilise normi ja standardi seaduse muutmise seaduse (RT I 2002, 32, 186) kohaselt avaldab Eesti Standardikeskus oma veebilehel ja väljaandes teavet harmoneeritud standarditest.

Harmoneeritud (ühtlustatud) standardid on EL Uue lähenemisviisi direktiividega liituvad standardid. Harmoneeritud standarditeks loetakse need standardid, millele on viidatud EL ametlikus väljaandes *Official Journal*. Harmoneeritud standardite kasutamine on kõige lihtsam viis tõendada direktiivide oluliste nõuete täitmist. Lisainfo <http://www.newapproach.org/>

EVS Teatajas ja EVS kodulehel (www.evs.ee) saab tutvuda Uue lähenemisviisi direktiivide all harmoneeritud standarditega. Ühtlasi avaldame ka, millised neist standarditest on üle võetud Eesti standarditeks. Seekord on avaldatud **ehitustoodete, lõbusõidulaevade, elektromagnetilise ühilduvuse ja meditsiinivahendite** standardid (avaldatud detsembri 2002 ja veebruari 2003 Euroopa Ühenduste Teataja C-seerias).

Kõik seekord viidatud standardid on üle võetud Eesti standarditeks.

EUROOPA PARLAMENDI JA NÕUKOGU DIREKTIIV 98/79/EÜ meditsiiniliste in vitro diagnostikavahendite kohta 27. oktoober 1998

(2002/C 314/07)
17.12.2002

Viidatud standardi tähis

Standardi nimetus

N 61010-2-101:2002

Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2- 101: Particular requirements for in vitro diagnostic (IVD) medical equipment
(IEC 61010-2-101:2002, modified)

(2002/C 314/06)

17.12.2002

Viidatud standardi tähis	Standardi nimetus
EN 13612:2002	Performance evaluation of in vitro diagnostic medical devices
EN 13532:2002	General requirements for in vitro diagnostic medical devices for self-testing
EN 13640:2002	Stability testing of in vitro diagnostic reagents
EN 13641:2002	Elimination or reduction of risk of infection related to in vitro diagnostic reagents

90/385/EMÜ aktiivsed siirdatavad meditsiiniseadmed

(2003/C 32/04)

11.2.2003

Viidatud standardi tähis	Standardi nimetus
EN ISO 13485:2000	Quality systems - Medical devices - Particular requirements for the application of EN ISO 9001 (revision of EN 46001:1996) (identical to ISO 13485:1996)
EN ISO 13488:2000	Quality systems - Medical devices - Particular requirements for the application of EN ISO 9002 (revision of EN 46002:1996) (identical to ISO 13488:1996)

NÕUKOGU DIREKTIIV 93/42/EMÜ meditsiiniseadmete kohta 14. juuni 1993

(2002/C 310/04)

13.12.2002

Viidatud standardi tähis	Standardi nimetus
EN ISO 10651-4:2002	Lung ventilators – Part 4: Particular requirements for operator-powered resuscitators (ISO 10651-4:2002)
EN ISO 14534:2002	Ophthalmic optics – Contact lenses and contact lens care products – Fundamental requirements (ISO 14534:2002)
EN 738-1:1997/A1:2002	Pressure regulators for use with medical gases – Part 1: Pressure regulators and pressure regulators with flow metering devices
EN 738-3:1997/A1:2002	Pressure regulators for use with medical gases – Part 3: Pressure regulators integrated with cylinder valves
EN 738-4:1997/A1:2002	Pressure regulators for use with medical gases – Part 4: Low-pressure regulators intended for incorporation into medical equipment

EN 739:1998/A1:2002	Low-pressure hose assemblies for use with medical gases
EN 12218:1998/A1:2002	Rail system for supporting medical equipment
EN 1060-1:1998/A1:2002	Non-invasive sphygmomanometers – Part 1: General requirements

EUROOPA PARLAMENDI JA NÕUKOGU Direktiiv 94/25/EÜ 16. juunist lõbusõidulaevade kohta
(2002/C 318/05)
19.12.2002

Viidatud standardi tähis	Standardi nimetus
EN ISO 12216:2002	Small craft - Windows, portlights, hatches, dead- lights and doors - Strength and watertightness requirements (ISO 12216:2002)

NÕUKOGU DIREKTIIV 89/106/EMÜ liikmesriikide ehitustooteid käsitlevate seaduste, määruste ja haldusnormide ühtlustamisest 21. detsember 1988

(2002/C 320/05)
20.12.2002

Viidatud standardi tähis	Standardi nimetus	Vastavalt Direktiivi 89/106/EMÜ artiklile 4(2)(a) harmoneeritud Euroopa standardina rakendamise kuupäev	Standardi ülemineku- perioodi lõpu- kuupäev ⁽²⁾
EN 12620:2002	Aggregates for concrete	1.7.2003	1.6.2004
EN 1344:2002	Clay pavers – Requirements and test methods	1.1.2003	1.1.2004
EN 13502:2002	Chimneys - Requirements and test methods for clay/ceramic flue terminals	1.8.2003	1.8.2004
EN 13564-1:2002	Anti-flooding devices for buildings - Part 1: Requirements	1.5.2003	1.5.2004
EN 13813:2002	Screed material and floor screeds - Screed material - Properties and requirements	1.8.2003	1.8.2004
EN 1917:2002	Concrete manholes and inspection chambers, unreinforced, steel fibre and reinforced	1.8.2003	23.11.2004
EN 54-3:2001/A1:2002	Fire detection and fire alarm systems - Part 3: Fire alarm devices – Sounders	1.4.2003	30.6.2005

EN 54-5:2000/A1:2002	Fire detection and fire alarm systems - Part 5: Heat detectors - Point detectors	1.4.2003	30.6.2005
EN 54-7:2000/A1:2002	Fire detection and fire alarm systems - Part 7: Smoke detectors - Point detectors using scattered light, transmitted light or ionization	1.4.2003	30.6.2005

(²) standardi üleminekuperioodi lõpukuupäev on sama mis konfliktse rahvusliku tehnilise spetsifikatsiooni kehtetuks tunnistamise kuupäev, peale mida vastavuseeldus peab põhinema harmoneeritud Euroopa spetsifikatsioonil (Euroopa heakskiidetud harmoneeritud standardid).

(2003/C 47/02)
27.2.2003

Viidatud standardi tähis	Standardi nimetus	Vastavalt Direktiivi 89/106/EMÜ artiklile 4(2)(a) harmoneeritud Euroopa standardina rakendamise kuupäev	Standardi üleminekuperioodi lõpukuupäev (²)
EN 12259-5:2002	Fixed firefighting systems - Components for sprinkler and water spray systems - Part 5: Water flow detectors	1.7.2003	1.9.2005
EN 13043:2002	Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas	1.7.2003	1.6.2004
EN 13450:2002	Aggregates for railway ballast	1.10.2003	1.6.2004
EN 13986:2002	Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking	1.4.2003	1.4.2004
EN 1916:2002	Concrete pipes and fittings, unreinforced, steel fibre and reinforced	1.8.2003	23.11.2004

(²) standardi üleminekuperioodi lõpukuupäev on sama mis konfliktse rahvusliku tehnilise spetsifikatsiooni kehtetuks tunnistamise kuupäev, peale mida vastavuseeldus peab põhinema harmoneeritud Euroopa spetsifikatsioonil (Euroopa heakskiidetud harmoneeritud standardid).

NÕUKOGU DIREKTIV 89/336/EMÜ elektromagnetilist ühilduvust käsitlevate liikmesriikide õigusnormide ühtlustamise kohta 3. mai 1989

(2002/C 304/02)
7.12.2002

Viidatud standardi tähis	Standardi nimetus	Asendatud standardi tähis	Vastavushindamise lõpu-kuupäev asendatud standardi järgi
EN 60730-2-8:2002	Automatic electrical controls for household and similar use - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements (IEC 60730-2-8:2000, modified)	EN 60730-1:1995 ja selle muudatused Märkus 2.3	1.12.2008
EN 60730-2-9	Automatic electrical controls for household and similar use - Part 2-9: Particular requirements for temperature sensing controls (IEC 60730-2-9:2000, modified)	EN 60730-1:1995 ja selle muudatused Märkus 2.3	1.12.2008



**WTO SEKRETARIAADILT
SAABUNUD TEATISED**

Maaailma Kaubandusorganisatsiooni WTO sekretariaadilt saabunud õigusaktide eelnõud, milles sisalduvad tehnilised normid võivad saada kaubanduse tehnilisteks tõketeks.

Eelnõude kohta on võimalik esitada kommentaare 2 nädalat enne tabelis toodud kuupäeva

Majandusministeeriumi Karel Kangro tel 625 6397, faks 625 6404, kkangro@mkm.ee

Eelnõude terviktekstid ja info EVS Teabekeskusest Signe Ruut tel 605 5062, faks 605 5063, enquiry@evs.ee

**WTO SEKRETARIAADILT
SAABUNUD TBT TEATISED**

NUMBER & ESITAMIS-KUUPÄEV	RIIK	TOODE/KAUP/TEENUS	EESMÄRK	KOMMENTAARIDE ESITAMISE VIIMANE KUUPÄEV
G/TBT/N/GTM/5,6 21. jaanuar 2003	GUATEMALA	alkohoolsed joogid ICS: 67.160.10	toiduohutus ja inimeste tervise kaitse	15. märts 2003

G/TBT/N/MEX/44 4. veebruar 2003	MEHHIKO	käsitrimmerid ja lõikajad	tehnilised nõuded, kvaliteedi parandamine, kasutajate ohutus ja märgistusnõuded	28. veebruar 2003
G/TBT/N/MEX/45 4. veebruar 2003	MEHHIKO	transpordipakendid radioaktiivsetele materjalidele	inimeste ja keskkonnakaitse	28. veebruar 2003
G/TBT/N/MEX/46 4. veebruar 2003	MEHHIKO	radioaktiivsed materjalid ja pakendamine	inimeste ja keskkonnakaitse, klassifitseerimine	28. veebruar 2003
G/TBT/N/MEX/47 28. veebruar 2003	MEHHIKO	ohtlikud ained ja materjalid	identifitseerimine ja klassifitseerimine	8. aprill 2003
G/TBT/N/COL/23 27. veebruar 2003	KOLUMBIA	väetised	juhendid ohutuks turustamiseks ja kasutamiseks	20. mai 2003
G/TBT/N/NZL/14 28. veebruar 2003	UUS MEREMAA	töödeldud toidud sportlastele	ohutu tarbimine	10. juuni 2003
G/TBT/N/JPN/75 4. märts 2003	JAAPAN	kaabeltelevisiooni ringhäälingusüsteem	nõuded	28. aprill 2003
G/TBT/N/BRB/1 4. märts 2003	BARBADOS	liha ja lihatooted (ka linnuliha), kala ja kalatooted ICS: 67.120.10, 67.120.20, 67.120.30	märgistusnõuded	18. aprill 2003
G/TBT/N/TTO/15 4. märts 2003	TRINIDAD ja TOBAGO	kaasaskantavad petrooli- ja düslikanistrid ICS: 55.140	tarbijakaitse	22. märts 2003
G/TBT/N/TTO/16 5. märts 2003	TRINIDAD ja TOBAGO	kaasaskantavad bensiinkanistrid ICS: 55.140	tarbijakaitse	22. märts 2003
G/TBT/N/GBR/9 10. märts 2003	ÜHENDATUD KUNINGRIIK	mänguautomaadid (jackpot)	nõuded	11. juuni 2003
G/TBT/N/EEC/26 10. märts 2003	EUROOPA ÜHENDUSED	sardiinikonservid ja sarnased tooted, Codex Alimentarius standard Codex STAN 94	tarbijainfo	19. märts 2003
G/TBT/N/JPN/76 12. märts 2003	JAAPAN	raadiosagedus-identifitseerimissüsteemid	nõuded	6. mai 2003
G/TBT/N/CZE/68 12. märts 2003	TŠEHHI	kaupade vaba liikumine	vastastikune tunnustamine	30. aprill 2003
G/TBT/N/CHE/25 13. märts 2003	ŠVEITS	sideseadmed	muudatused seadusandluses	20. mai 2003
G/TBT/N/CAN/63 13. märts 2003	KANADA	retseptiravimid (ka veterinaarravimid) ICS: 11.120, 11.220	inimeste tervise kaitse	15. mai 2003
G/TBT/N/BRA/103 13. märts 2003	BRASIILIA	tulekustutid HS: 84.24	tarbijakaitse	-
G/TBT/N/BRA/104 13. märts 2003	BRASIILIA	lennukipetrol HS: 2710	tarbijate ohutus	7. märts 2003
G/TBT/N/BRA/105 13. märts 2003	BRASIILIA	lemmikloomatoit HS: 23.09	märgistamine ja kvaliteet	-
G/TBT/N/BRA/103 13. märts 2003	BRASIILIA	tsisternaurod	tarbijate ohutus	20. märts 2003
G/TBT/N/DOM/1 13. märts 2003	DOMINIKAANI VABARIIK	kala ja koorikloomad, värske kala	nõuded	-
G/TBT/N/DOM/2 13. märts 2003	DOMINIKAANI VABARIIK	heitvesi	keskkonnareostuse kontroll	-

G/TBT/N/DOM/3 13. märts 2003	DOMINIKAANI VABARIIK	piim ja piimatooted	füüsiliste, keemiliste, mikrobioloogiliste ja organoleptiliste omaduste määramine kvaliteedi tagamiseks	-
G/TBT/N/DOM/4 13. märts 2003	DOMINIKAANI VABARIIK	koduseks kasutamiseks mõeldud vesi	omaduste määramine	-
G/TBT/N/DOM/5 13. märts 2003	DOMINIKAANI VABARIIK	pakendatud joogivesi HS 2201.10	klassifitseerimine	-
G/TBT/N/DOM/ 6-8 13. märts 2003	DOMINIKAANI VABARIIK	töödeldud puu- ja juurviljatooted, mahlad ja nektarid, karastusjoogid	määramine ja klassifitseerimine	-
G/TBT/N/DOM/9 13. märts 2003	DOMINIKAANI VABARIIK	kuivelementpatareid	nõuded	-
G/TBT/N/DOM/10 13. märts 2003	DOMINIKAANI VABARIIK	majonees	üldised nõuded (mürgistamine, lisandid)	-
G/TBT/N/DOM/11 13. märts 2003	DOMINIKAANI VABARIIK	söödavad rasvad	nõuded	-
G/TBT/N/DOM/12 13. märts 2003	DOMINIKAANI VABARIIK	tsement	nõuded, ohutus	-
G/TBT/N/DOM/14 13. märts 2003	DOMINIKAANI VABARIIK	määrdeõlid	nõuded ja katsemeetodid	-
G/TBT/N/DOM/15 13. märts 2003	DOMINIKAANI VABARIIK	klaaspakendid ravimitele	kvaliteedinõuded	-
G/TBT/N/DOM/16 13. märts 2003	DOMINIKAANI VABARIIK	elektrilised pliiakud	mõõtmed	-
G/TBT/N/DOM/17 13. märts 2003	DOMINIKAANI VABARIIK	õõnsad betoonblokid	kvaliteet	-
G/TBT/N/DOM/18 13. märts 2003	DOMINIKAANI VABARIIK	või	nõuded	-
G/TBT/N/DOM/19 13. märts 2003	DOMINIKAANI VABARIIK	Cheddar juust	klassifitseerimine ja nõuded	-
G/TBT/N/DOM/20 13. märts 2003	DOMINIKAANI VABARIIK	valge kreemjuust	füüsikalised- keemilised, mikrobioloogilised ja organoleptilised nõuded tootmiseks	-
G/TBT/N/DOM/21 13. märts 2003	DOMINIKAANI VABARIIK	Edami juust	füüsikalised- keemilised, mikrobioloogilised ja organoleptilised nõuded tootmiseks	-
G/TBT/N/USA/34 13. märts 2003	USA	Naatriumi sisaldava toidu mürgistamine	tarbijainfo	6. mai 2003
G/TBT/N/HKG/14 13. märts 2003	HONG KONG	raadiotelefon	sertifitseerimine	10. mai 2003
G/TBT/N/HKG/15 13. märts 2003	HONG KONG	traadita telefonid	sertifitseerimine	10. mai 2003
G/TBT/N/NLD/57 13. märts 2003	HOLLAND	loomasööt	nõuded	27. aprill 2003
G/TBT/N/ARG/82 13. märts 2003	ARGENTIINA	Natural gas	ohutus ja kvaliteet	-
G/TBT/N/ARG/83 13. märts 2003	ARGENTIINA	kokkusurutud maagaas (CNG)	ohutus ja kvaliteet	-
G/TBT/N/ARG/84 13. märts 2003	ARGENTIINA	maagaas	ohutus ja kvaliteet	-
G/TBT/N/ARG/85 13. märts 2003	ARGENTIINA	ravimid	inimeste tervise kaitse	-

G/TBT/N/ARG/86 13. märts 2003	ARGENTIINA	elektter	ohutus	-
G/TBT/N/CHL/35 13. märts 2003	TŠIILI	toit	inimeste tervis ja tarbijainfo	5. mai 2003
G/TBT/N/SWE/27 14. märts 2003	ROOTSI	paagid, mahutid, torujuhtmed	seadusandluse uuendamine	19. mai 2003
G/TBT/N/DOM/22 14. märts 2003	DOMINIKAANI VABARIIK	Parmesani juust	nõuded	-
G/TBT/N/COL/25 14. märts 2003	KOLUMBIA	alkoholi sisaldav kütus	ohutus	12. juuni 2003
G/TBT/N/KOR/48 20. märts 2003	KOREA VABARIIK	toidu määrgistamine	üldinfo	8. aprill 2003
G/TBT/N/BRA/107 20. märts 2003	BRASIILIA	Red light violator eeskirjarikkuja equipment	vastavushindamine ja tarbijate ohutus	5. aprill 2003
G/TBT/N/USA/35 24. märts 2003	USA	püüm ja püümatooted	Suu -ja sõrataudi leviku vältimine	21. aprill 2003
G/TBT/N/CAN/64 24. märts 2003	KANADA	Small spark-ignition engines ICS: 13.040.50, 65.060.70, 65.060.80	inimeste tervise ja keskkonnakaitse	28. mai 2003

WTO SEKRETARIAADILT SAABUNUD SPS TEATISED

NUMBER & ESITAMIS- KUUPÄEV	RIIK	MÕJUTATAV PIIRKOND/ RIIK	TOODE	EESMÄRK	KOMMEN- TAARIDE ESITAMISE VIIMANE KUUPÄEV
G/SPS/N/COL/69 25. veebruar 2003	KOLUMBIA	Austraalia, India, Hiina, Indoneesia, Saudi Araabia, Filipiinid, Hong Kong, Hollandi Antillid, Grenada, Briti Neitsisaared, Saint Lucia, Trinidad ja Tobago, Havai ja Puerto Rico, Belize, Guyana ja Venetsueela	taimed ja taimetooted	taimekaitse	-
G/SPS/N/COL/70 25. veebruar 2003	KOLUMBIA	Kalifornia, USA	õunad, pirnid, virsikud ja nektariinid	taimekaitse	-
G/SPS/N/CHN/16 25. veebruar 2003	HIINA	Holland	Calathea ornate ja teised peremeestaimed Radopholus similes (Cobb) Thorne	taimekaitse	-
G/SPS/N/MYS/13 27. veebruar 2003	MALAIISIA	USA	eluslinnud, metslinnuliha ja munad ja muud tooted	loomatervis	-

G/SPS/N/EEC/190 3. märts 2003	EUROOPA ÜHENDUSED	EÜ liikmesriigid ja EÜ-sse eksportivad kolmandad riigid	veised, sead, lambad, kitsed	loomatervis	60 päeva
G/SPS/N/EEC/191 3. märts 2003	EUROOPA ÜHENDUSED	EÜ liikmesriigid ja EÜ-sse eksportivad kolmandad riigid	kõik loomsed või taimsed toidud	toiduohutus	60 päeva
G/SPS/N/EEC/ 192, 193 3. märts 2003	EUROOPA ÜHENDUSED	EÜ liikmesriigid ja EÜ-sse eksportivad kolmandad riigid	liha ja lihatooted	toiduohutus	60 päeva
G/SPS/N/NLD/59 4. märts 2003	HOLLAND	-	lamba- ja kitsejuust	toiduohutus	25. aprill 2003
G/SPS/N/CAN/161 4. märts 2003	KANADA	Keenia	Geraanium (Pelargonium spp.) (060210 ja 060290)	taimekaitse	-
G/SPS/N/USA/694 10. märts 2003	USA	kaubandus- partnerid	piim ja piimatooted	loomatervis	13. aprill 2003
G/SPS/N/JPN/95 12. märts 2003	JAAPAN	kõik riigid	õunamahl ja selle komponendid	toiduohutus	23. mai 2003
G/SPS/N/JPN/96 12. märts 2003	JAAPAN	kõik riigid	toidulisandid (Kojic acid, Methyl hesperidin)	toiduohutus	23. mai 2003
G/SPS/N/CAN/162 14. märts 2003	KANADA	-	anšoovisekaste (ICS: 67.220.10)	toiduohutus	-
G/SPS/N/KOR/124 18. märts 2003	KOREA VABARIIK	-	toidulisandid	toiduohutus	15. mai 2003
G/SPS/N/CAN/163 18. märts 2003	KANADA	kõik riigid välja arvatud USA	toidu pakendamise (ICS: 55.040, 79.040)	taimekaitse	10. mai 2003
G/SPS/N/JPN/97 20. märts 2003	JAAPAN	kõik riigid	kariloomade sööt, kala- ja kanasööt	loomatervis	21. mai 2003
G/SPS/N/NZL/200 20. märts 2003	UUS MEREMAA	kõik riigid	seemned külvamiseks	taimekaitse	16. mai 2003
G/SPS/N/CAN/164 20. märts 2003	KANADA	-	vahukoor (ICS: 67.100.10, 67.220.20)	toiduohutus	-
G/SPS/N/USA/695 20. märts 2003	USA	kõik kaubandus- partnerid	fungitsiid Cyprodinil (4- cyclopropyl- 6- methyl- N-phenyl- 2-pyrimidinamine)	toiduohutus	7. aprill 2003
G/SPS/N/USA/696 20. märts 2003	USA	kõik kaubandus- partnerid	Karbamiid	inimeste kaitsmine looma/taime haiguste eest	26. jaanuar 2003
G/SPS/N/USA/697 20. märts 2003	USA	kõik riigid	Pelargonium spp. ja Solanium spp paljundusmaterjal	taimekaitse	-
G/SPS/N/USA/698 21. märts 2003	USA	kaubandus- partnerid	loomad ja nendest tooted	loomatervis	5. mai 2003

UUED STANDARDID JA KAVANDID ARVAMUSKÜSITLUSEKS

See EVS Teataja osa avaldab andmed uutest vastuvõetud Eesti standarditest ja avalikuks arvamusküsitluseks esitatud standardite kavanditest Rahvusvahelise standardite klassifikaatori (ICS) järgi.

Samas jaotises on toodud andmed nii eesti keeles avaldatud kui ka jõustumisteatega Eesti standarditeks ingliskeelsetena vastuvõetud rahvusvahelistest ja Euroopa standarditest. Kuna võimalusel on ingliskeelsena vastuvõetud standardi nimetus ja käsitlusala tõlgitud eesti keelde ja loetelust ei ole see eristatav, millised standardid on tõlgitud eesti keelde, on eesti keeles avaldatud standardid toodud ka eraldi nimekirjana Teataja lõpus.

Eesmärgiga tagada standardite vastuvõtmine järgides konsensuse põhimõtteid, peab standardite vastuvõtmisele eelnema standardite kavandite avalik arvamusküsitlus, milleks ettenähtud perioodi jooksul on asjast huvitatuil võimalik tutvuda standardite kavanditega ning teha ettepanekuid.

EVS Teatajas on esitatud arvamusküsitlusele:

- 1) Euroopa ja rahvusvahelised standardid, mis on kavas vastu võtta Eesti standarditeks jõustumisteatega (kavandid kättesaadaval standardina inglise keeles EVS raamatukogus ja neid saab osta müügigrupist; EVS tehnilistel komiteedel on võimalik saada koopiaid oma käsitlusalaga kokkulangevatest standarditest EVS kontaktisiku kaudu);

- 2) Eesti standardite kavandid, mis Eesti standardimisprogrammi järgi on jõudnud arvamusküsitluse etappi (kavandid on kättesaadavad eesti keeles standardiosakonnas, neid saab osta müügigrupist);

- 3) Euroopa (prEN) standardite kavandid, mis on saadetud liikmetele arvamusküsitluseks (kavandid on kättesaadavad EVS raamatukogus, v.a Euroopa standarditeks ülevõetavate nende ISO tehniliste komiteede kavandid (prEN ISO), mille töös EVS ei osale, ja neid saab osta müügigrupist. EVS tehnilistel komiteedel on võimalik saada koopiaid oma käsitlusalaga kokkulangevatest kavanditest EVS kontaktisiku kaudu).

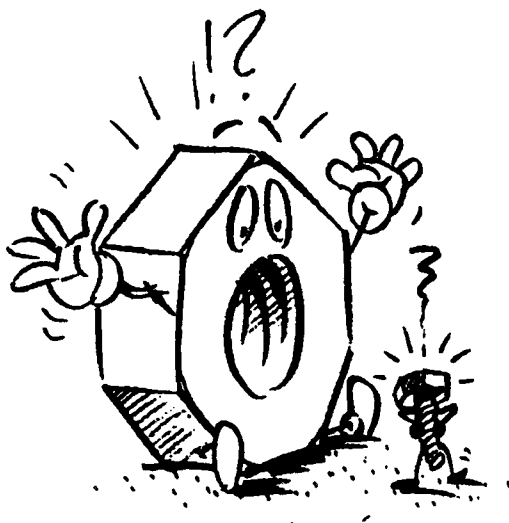
EVS Teatajas on kavandid identifitseeritud sellele standardite andmebaasis omistatud projekti numbriga järgi (nt prEVS 18958), kavandite saamiseks on soovitatav ära näidata ka kavandiga identse standardi tähis. Teavet Eesti standardimisprogrammist saab standardiosakonnast.

Kavandite arvamusküsitlusel on eriti oodatud teave, kui rahvusvahelist või Euroopa standardit ei peaks vastu võtma Eesti standardiks (vastuolu Eesti õigusaktidega, pole Eestis rakendatav jt põhjustel).

ICS PÕHIRÜHMAD

ICS	Nimetus
01	Üldküsimused. Terminoloogia. Standardimine. Dokumentatsioon
03	Sotsioloogia. Teenused. Ettevõtte organiseerimine ja juhtimine. Haldus. Transport
07	Matemaatika. Loodusteadused
11	Tervisehooldus
13	Keskkonna- ja tervisekaitse. Ohutus
17	Metrooloogia ja mõõtmine. Füüsikalised nähtused

19	Katsetamine
21	Üldkasutatavad masinad ja nende osad
23	Üldkasutatavad hüdro- ja pneumosüsteemid ja nende osad
25	Tootmistehnoloogia
27	Elektri- ja soojusenergeetika
29	Elektrotehnika
31	Elektroonika
33	Sidetehnika
35	Infotehnoloogia. Kontoriseadmed
37	Visuaaltehnika
39	Täppismehaanika. Juvelitooted
43	Maanteeõidukite ehitus
45	Raudteetehnika
47	Laevaehtus ja mereehtused
49	Õhusõidukid ja kosmosetehnika
53	Tõste- ja teisaldusseadmed
55	Pakendamine
59	Tekstiili- ja nahatehnoloogia
61	Rõivatööstus
65	Põllumajandus
67	Toiduainete tehnoloogia
71	Keemiline tehnoloogia
73	Mäendus ja maavarad
75	Nafta ja naftatehnoloogia
77	Metallurgia
79	Puidutehnoloogia
81	Klaasi- ja keraamikatööstus
83	Kummi- ja plastitööstus
85	Paberitehnoloogia
87	Värvide ja värvainete tööstus
91	Ehitusmaterjalid ja ehitus
93	Tsiviilehtus
95	Sõjatehnika
97	Olme. Meelelahutus. Sport
99	Muud



01.040.13**Keskkonna- ja tervisekaitse. Ohutus (sõnavara)**

Environment and health protection. Safety (Vocabularies)

KAVANDITE ARVAMUSKÜSITLUS

prEVS 55512

Tähtaeg: 2003-06-01

Identne EN 13193:2000

Pakend. Pakend ja keskkond. Terminoloogia

Standard määratleb pakendi- ja keskkonna valdkondades kasutatavad mõisted.

01.040.19**Katsetamine (sõnavara)**

Testing (Vocabularies)

UUED STANDARDID

EVS-EN ISO 12706:2003

Hind 117,00

Identne ISO 12706:2000

ja identne EN ISO 12706:2000

Non-destructive testing - Terminology - Terms used in penetrant testing

01.040.35**Infotehnoloogia. Kontoriseadmed (sõnavara)**

Information technology. Office machines (Vocabularies)

UUED STANDARDID

EVS 2382-30:2003

Hind 380,00

Identne

ISO/IEC CD2 2382-30:1996

Infotehnoloogia. Sõnastik.**Osa 30: Raalnägemine**

Standard on mõeldud soodustama rahvusvahelist suhtlust infotehnoloogias. Ta esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Teistesse keeltesse tõlkimise hõlbustamiseks on määratlused kavandatud nii, et võimalikult välistada ühele keelele omaseid iseärasusi. Standard

määratleb raalnägemisega seotud mõisteid.

EVS 2382-33:2003

Hind 306,00

Identne

ISO/IEC CD1 2382-

33:1997+CD2:1998

Infotehnoloogia. Sõnastik.**Osa 33: Hüpermeedium ja multimeedium**

Standard on mõeldud soodustama rahvusvahelist suhtlust infotehnoloogias. Ta esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Teistesse keeltesse tõlkimise hõlbustamiseks on määratlused kavandatud nii, et võimalikult välistada ühele keelele omaseid iseärasusi. Standard määratleb hüpermeediumiga ning multimeediumiga seotud mõisteid.

EVS 2382-35:2003

Hind 306,00

Identne

ISO/IEC CD2 2382-35:1998

Infotehnoloogia. Sõnastik.**Osa 35: Võrgundus**

Standard on mõeldud soodustama rahvusvahelist suhtlust infotehnoloogias. Ta esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Teistesse keeltesse tõlkimise hõlbustamiseks on määratlused kavandatud nii, et võimalikult välistada ühele keelele omaseid iseärasusi. Standard määratleb võrgundusega seotud mõisteid.

EVS 2382-37:2003

Hind 238,00

Identne

ISO/IEC WD2 2382-37:1998

Infotehnoloogia. Sõnastik.**Osa 37: Virtuaalreaalsus**

Standard on mõeldud soodustama rahvusvahelist suhtlust infotehnoloogias. Ta esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Teistesse keeltesse tõlkimise hõlbustamiseks on määratlused kavandatud nii, et võimalikult välistada ühele keelele omaseid iseärasusi. Standard määratleb virtuaalreaalsusega seotud mõisteid.

03.120.10**Kvaliteedijuhtimine ja -tagamine**

Quality management and quality assurance

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 33143

Tähtaeg: 2003-06-01

Identne EN 12798:1999

Transport Quality System - Road, rail and inland navigation transport - Quality system requirements to supplement EN ISO 9002 for the transport of dangerous goods with regard to safety

This European Standard specifies quality system requirements, supplementary to those of EN ISO 9002, for the management of safety in the field of the transport of dangerous goods by road, rail and inland navigation. Its application covers, and is limited by, the range of transport related services that the company claims to provide in compliance with this European Standard

03.220.20**Maanteetransport**

Road transport

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 28030

Tähtaeg: 2003-06-01

Identne prEN 12253:2003

Road transport and traffic telematics - Dedicated short-range communication - Physical layer using microwave at 5,8 GHz

This European Standard: Specifies a Physical Layer at 5.8 GHz for DSRC as applicable in the field of Road Transport and Traffic Telematics (RTTT). provides requirements for the communication medium to be used for exchange of information between roadside units (RSU) and on-board units (OBU). does not include associated measurement guidelines for verification of the formulated requirements in this European Standard
prEVS 38303
Tähtaeg: 2003-06-01
Identne prEN 13372:2003

Road transport and traffic telematics (RTTT) - Dedicated shortrange communication - Profiles for RTTT applications
The DSRC Standards EN 12253, EN 12795 and EN 12834, which together form a three-layered architecture for DSRC, are designed to encompass a wide range of services for different purposes in order to make the basic DSRC architecture suited for many different applications and for a wide range of possible products and systems

03.240

Postiteenus

Postal services

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 52851

Tähtaeg: 2003-06-01

Identne prEN 14615:2003

Postal services - Automated processing of mail items - Digital postage marks

The transition from letterpress to digital printing provides the opportunity for a more effective way to communicate information on postal items. Current Postmarks include information such as postage value, date of posting and equipment identification, but this information is not readily machine readable. The emergence of digital printing and image processing technologies offers the opportunity to encode critical data in a form which is more suitable for computer data capture

07.100.30

**Toiduainete
mikrobioloogia**

Food microbiology

UUED STANDARDID

EVS-EN 13401:2003

Hind 117,00

Identne ISO 7937:1997

Microbiology of food and animal feeding stuffs - Horizontal method for enumeration of Clostridium perfringens - Colony-count technique

This standard describes a horizontal method for the enumeration of viable Clostridium perfringens in products intended

for human consumption or feeding of animals.

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 34867

Tähtaeg: 2003-06-01

Identne ISO 4833:2003

ja identne EN ISO 4833:2003

Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of microorganisms - Colony-count technique at 30 degrees C

This International Standard specifies a horizontal method for the enumeration of microorganisms, by counting the colonies growing in a solid medium after aerobic incubation at 30 °C

11.040.10

Anesteesia-, hingamis- ja reanimatsioonivarustus

Anaesthetic, respiratory and reanimation equipment

UUED STANDARDID

EVS-EN ISO 9360-2:2003

Hind 75,00

Identne ISO 9360-2:2002

ja identne EN ISO 9360-2:2002

Anaesthetic and respiratory equipment - Heat and moisture exchangers (HMEs) for humidifying respired gases in humans - Part 2: HMEs for use with tracheostomized patients having minimum tidal volumes of 250 ml

This part of ISO 9360 is based on ISO 9360-1:2000 and specifies certain requirements and test methods for heat and moisture exchangers (HMEs) without machine connector ports, including those incorporating breathing system filters

11.040.20

Transfusiooni, infusiooni ja süstimise varustus

Transfusion, infusion and injection equipment

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 7820

Tähtaeg: 2003-06-01

Identne ISO 8362-3:2001

ja identne EN ISO 8362-3:2003

Injection containers and accessories - Part 3: Aluminium caps for injection vials

This part of ISO 8362 specifies aluminium caps for injection vials as described in ISO 8362-1 and ISO 8362-4

11.040.50

Radiograafiaseadmed

Radiographic equipment

UUED STANDARDID

EVS-EN 61676:2003

Hind 179,00

Identne IEC 61676:2002

ja identne EN 61676:2002

Medical electrical equipment - Dosimetric instruments used for non-invasive measurement of X-ray tube voltage in diagnostic radiology

Specifies the performance requirements of instruments as used in the non-invasive measurement of X-ray tube voltage up to 150 kV and the relevant compliance tests. Describes the method for calibration and gives guidance for estimating the uncertainty in measurements performed under conditions different from those during calibration. This standard is not concerned with the safety aspect of such instruments. The requirements for electrical safety applying to them are contained in IEC 61010-1.

EVS-EN 60601-2-44:2002/

A1:2003

Hind 83,00

Identne IEC 60601-2-44:2001/

A1:2002

ja identne EN 60601-2-44:2001/

A1:2003

Medical electrical equipment - Part 2-44: Particular requirements for the safety of X-ray equipment for computed tomography

This particular standard applies to X-ray equipment for computed tomography (CT SCANNERS). It does not cover the safety requirements for HV-generators which will be the subject of another standard. The object of this standard is to establish requirements for safe operation of CT SCANNERS in as far as those requirements have not yet been specified in the General Standard,

the Collateral Standards or other Particular Standards.

11.040.55

Diagnostikaseadmed

Diagnostic equipment

UUED STANDARDID

EVS-EN 61676:2003

Hind 179,00

Identne IEC 61676:2002

ja identne EN 61676:2002

Medical electrical equipment - Dosimetric instruments used for non-invasive measurement of X-ray tube voltage in diagnostic radiology

Specifies the performance requirements of instruments as used in the non-invasive measurement of X-ray tube voltage up to 150 kV and the relevant compliance tests. Describes the method for calibration and gives guidance for estimating the uncertainty in measurements performed under conditions different from those during calibration. This standard is not concerned with the safety aspect of such instruments. The requirements for electrical safety applying to them are contained in IEC 61010-1.

EVS-EN 61010-2-101:2003

Hind 146,00

Identne IEC 61010-2-101:2002

ja identne EN 61010-2-101:2002

Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment

Applies to equipment intended for in vitro diagnostic (IVD) medical purposes. This is used for the examination of specimens, including blood and tissue samples, derived from the human body. The standard also covers self-test IVD medical equipment for use by lay persons.

11.040.70

Silmaraviseadmed

Ophthalmic equipment

UUED STANDARDID

EVS-EN 13503-6:2003

Hind 109,00

Identne ISO 11979-6:2002

ja identne EN 13503-6:2002

Ophthalmic implants -

Intraocular lenses - Part 6:

Shelf-life and transport stability

This part of EN 13503 specifies tests by which the shelf-life of sterile intraocular lenses (IOLs) in their final packaging can be determined. These tests include procedures to establish the stability of IOLs in distribution and storage

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 33490

Tähtaeg: 2003-06-01

Identne ISO 16672:2003

ja identne EN ISO 16672:2003

Ophthalmic implants - Ocular endotamponades

This international Standard applies to ocular endotamponades (OEs), a group of non-solid implants used in ophthalmology to flatten and position a detached retina onto the choroid, or to tamponade the retina

11.060.10

Hambaravimaterjalid

Dental materials

UUED STANDARDID

EVS-EN ISO 10139-2:2003

Hind 75,00

Identne ISO 10139-2:1999

ja identne EN ISO 10139-2:2001

Dentistry - Soft lining materials for removable dentures - Part 2: Materials for long-term use

This part of the standard specifies requirements for softness and elasticity of soft denture lining materials suitable for long-term use.

11.100

Laboratoorne meditsiin

Laboratory medicine

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 35526

Tähtaeg: 2003-06-01

Identne ISO 15189:2003

ja identne EN ISO 15189:2003
Medical laboratories - Particular requirements for quality and competence

This International Standard specifies requirements for quality and competence to medical laboratories

11.180

Puuetega inimeste abivahendid

Aids for disabled or handicapped persons

UUED STANDARDID

EVS-EN ISO 16021:2003

Hind 92,00

Identne ISO 16021:2000

ja identne EN ISO 16021:2000

Urine-absorbing aids - Basic principles for evaluation of single-use adult-incontinence-absorbing aids from the perspective of users and caregivers

13.020.50

Keskkonnamärgistus

Ecolabelling

UUED STANDARDID

EVS-EN ISO 14024:2003

Hind 92,00

Identne ISO 14024:1999

ja identne EN ISO 14024:2000

Environmental labels and declarations - Type I environmental labelling - Principles and procedure

13.030.01

Jäätmed üldiselt

Wastes in general

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 55512

Tähtaeg: 2003-06-01

Identne EN 13193:2000

Pakend. Pakend ja keskkond. Terminoloogia

Standard määratleb pakendi- ja keskkonna valdkondades kasutatavad mõisted.

13.030.10

Tahked jäätmed

Solid wastes

UUED STANDARDID

EVS-EN 12457-2:2003

Hind 155,00

Identne EN 12457-2:2002

Characterisation of waste - Leaching - Compliance test for leaching of granular waste materials and sludges - Part 2: One stage batch test at a liquid to solid ratio of 10 l/kg for materials with particle size below 4 mm (without or with size reduction)

This part of four European Standards specifies a compliance test providing information on leaching of granular wastes and sludges under the experimental conditions specified hereafter, and particularly a liquid to solid ratio of 10 l/kg dry matter. It applies to waste which has a particle size below 4 mm without or with size reduction (as specified in 4.3.2)

13.030.20

Vedelad jäätmed. Sete

Liquid wastes. Sludge

UUED STANDARDID

EVS-EN 12457-2:2003

Hind 155,00

Identne EN 12457-2:2002

Characterisation of waste - Leaching - Compliance test for leaching of granular waste materials and sludges - Part 2: One stage batch test at a liquid to solid ratio of 10 l/kg for materials with particle size below 4 mm (without or with size reduction)

This part of four European Standards specifies a compliance test providing information on leaching of granular wastes and sludges under the experimental conditions specified hereafter, and particularly a liquid to solid ratio of 10 l/kg dry matter. It applies to waste which has a particle size below 4 mm without or with size reduction (as specified in 4.3.2)

13.030.99

Muud jäätmetega seotud standardid

Other standards related to wastes

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 55510

Tähtaeg: 2003-06-01

Identne EN 13432:2000

Pakend. Kompostimise ja biolagunemise teel taaskasutatavale pakendile esitatavad nõuded. Pakendi lõplikult kõlblikuks tunnistamisel kasutatava testimise kord ja hindamiskriteeriumid

Standard piiritleb nõuded ja menetlused pakendi ja pakendimaterjalide kompostitavuse ja anaeroobseks töötlemiseks sobivuse määramiseks, lähtudes pakendi neljast omadusest: biolagunevus; lõhustumine bioloogilisel töötlemisel; mõju bioloogilistele töötusprotsessidele ning mõju tekkiva komposti kvaliteedile.

prEVS 55513

Tähtaeg: 2003-06-01

Identne EN 13427:2000

Pakend. Pakendi- ja pakendijäätmealaste Euroopa standardite kasutamise nõuded

Standard piiritleb nõuded ja korra, millest lähtudes võib pakendeid või pakendatud tooteid turundav isik või organisatsioon (tarnija) kokku sobitada viie (mandaadi alusel koostatud) pakendistandardi ja ühe (kaheosalise) CEN aruande rakendamist.

prEVS 55515

Tähtaeg: 2003-06-01

Identne EN 13428:2000

Pakend. Pakendi tootmisele ja koostisele rakendatavad spetsiifilised nõuded.

Jäätmetekke ennetamine tootmisel.

Ütandard määratleb protseduureeglid pakendi hindamiseks, et tagada vähim materjali mass ja/või maht, mis on vajalik, et säiliks pakendi funktsionaalsus kogu tarne- ja kasutusahela ulatuses; ohutus ja hügieenilisus nii toote kui ka kasutaja/tarbija seisukohast; pakendatud toote vastuvõetavus kasutajale/tarbijale. Tekkekohas vähendamise aluseks ei ole ühe materjali teisega asendamine.

13.040.01

Õhu kvaliteet üldiselt

Air quality in general

UUED STANDARDID

EVS-EN ISO 16017-1:2003

Hind 163,00

Identne ISO 16017-1:2000

ja identne EN ISO 16017-1:2000

Indoor, ambient and workplace air - Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography - Part 1: Pumped sampling

13.060

Vee kvaliteet

Water quality

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56088

Tähtaeg: 2003-06-01

Identne prEN 14622:2003

Devices to prevent pollution by backflow of potable water - Air gap with circular overflow (restricted) Family A-Type F

This European standard specifies the characteristics and the requirements of air gaps with circular overflow (restricted) Family A Type F for nominal flow velocity not exceeding 3 m/s. Air gaps are devices for protection of potable water in water installations from pollution. This standard applies to air gaps in factory assembled products and to constructed air gaps in situ, and defines the physicochemical characteristics of materials of construction used for the purpose and application to ensure compliance with this standard during normal working use

prEVS 56089

Tähtaeg: 2003-06-01

Identne prEN 14623:2003

Devices to prevent pollution by backflow of potable water - Air gap with overflow (tested by vacuum measurement) Family A Type G

This European standard specifies the characteristics and the requirements of air gaps with overflow Family A Type G for nominal flow velocity not exceeding 3 m/s. Air gaps are devices for protection of potable water in water installations from pollution. This standard applies to air gaps in factory assembled products and to constructed air gaps in situ, and defines the physicochemical characteristics of materials of construction used for the purpose and application to ensure compliance with this standard during normal working use

prEVS 56090

Tähtaeg: 2003-06-01

Identne prEN 12255-16:2003

Wastewater treatment plants - Part 16: Physical (mechanical) filtration

This part of the European Standard specifies design principles and performance requirements for tertiary clarification (receiving effluent from secondary treatment) by physical filtration plant at wastewater treatment works serving more than 50 PT

13.060.20

Joogivee kvaliteet

Drinking water

UUED STANDARDID

EVS-EN 13443-1:2003

Hind 130,00

Identne EN 13443-1:2002

Water conditioning equipment inside buildings - Mechanical filters - Part 1: Particle rating 80 µm to 150 µm - Requirements for performances and safety, testing

Part 1 of this European standard applies to mechanical filters for drinking water installations inside buildings, of nominal size from DN 15 to DN 100, minimum nominal pressure PN10, particle rating of 80 µm to 150 µm, and minimum design temperature of 30° C. It specifies requirements relating to the construction and mode of operation of filters and describes relevant methods of testing. It only concerns units which are permanently connected to the mains supply at the point of entry into the building

13.060.50

Vee keemilise koostise määramine

Examination of water for chemical substances

UUED STANDARDID

EVS-EN ISO 15061:2003

Hind 130,00

Identne ISO 15061:2001

ja identne EN ISO 15061:2001

Water quality - Determination of dissolved bromate - Method by liquid chromatography of ions

The standard specifies a method for the determination of dissolved bromate in water (e.g. drinking water, raw water, surface water, partially treated water or swimming pool water).

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 37508

Tähtaeg: 2003-06-01

Identne ISO 17495:2001

ja identne EN ISO 17495:2003

Water quality - Determination of selected nitrophenols - Method by solid-phase extraction and gas chromatography with mass spectrometric detection

This International standard specifies a method for the determination of selected nitrophenols in drinking, ground and surface water in mass concentrations > 0,5 mg/l

prEVS 38218

Tähtaeg: 2003-06-01

Identne ISO 15913:2000

ja identne EN ISO 15913:2003

Water quality - Determination of selected phenoxyalkanoic herbicides, including bentazones and hydroxybenzonnitriles by gas chromatography and mass spectrometry after solid phase extraction and derivatization

This International Standard specifies a method for the determination of phenoxyalkanoic acids in ground and drinkin water in mass concentrations >=50 ng/l (detailed information is given in Table A. 1 of annex A)

13.110

Masinate ohutus

Safety of machinery

UUED STANDARDID

EVS-EN 13861:2003

Hind 170,00

Identne EN 13861:2002

Safety of machinery - Guidance for the application of ergonomics standards in the design of machinery

This European standard provides a methodology to achieve a coherent application of various ergonomics standards for the design of machinery. This standard presents a step model calling upon specific standards. This standard can only

be used in combination with other relevant ergonomics standards

EVS-EN 12198-2:2003

Hind 101,00

Identne EN 12198-2:2002

Masinate ohutus. Masinatest lähtuvast kiirgusest tulenevate riskide hindamine ja vähendamine. Osa 2: Kiirguse mõõtmine

This European Standard defines basic technology and specifies general procedures for making and reporting measurements of quantities related to radiation emitted by machinery. It covers the different radiation emissions as defined in EN 12198-1

EVS-EN 12198-3:2003

Hind 92,00

Identne EN 12198-3:2002

Masinate ohutus. Masinatest lähtuvast kiirgusest tulenevate riskide hindamine ja vähendamine. Osa 3: Kiirguse vähendamine summutamise või ekraniseerimisega

The purpose of this European standard is to provide means to enable manufacturers of machinery concerned by a radiation hazard to design and manufacture efficient safeguards against radiations

13.120

Ohutus kodus

Domestic safety

UUED STANDARDID

EVS-EN 60335-2-35:2003

Hind 0,00

Identne IEC 60335-2-35:2002

ja identne EN 60335-2-35:2002

Safety of household and similar electrical appliances - Part 2: Particular requirements for instantaneous water heaters

This standard deals with the safety of electric instantaneous water heaters for household and similar purposes and intended for heating water below boiling temperature, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances. Note 1 - Instantaneous water heaters incorporating bare heating elements are within the scope of this standard.

EVS-EN 60335-2-45:2003

Hind 130,00

Identne IEC 60335-2-45:2002

ja identne EN 60335-2-45:2002

Safety of household and similar electrical appliances - Part 2: Particular requirements for portable heating tools and similar appliances

This standard deals with the safety of portable electric heating tools and similar appliances, their rated voltage being not more than 250 V.

EVS-EN 60335-2-96:2003

Hind 179,00

Identne IEC 60335-2-96:2002

ja identne EN 60335-2-96:2002

Safety of household and similar electrical appliances - Part 2-96: Particular requirements for flexible sheet heating elements for room heating

Deals with the safety of flexible sheet heating elements. These are incorporated into a building to heat rooms. The rated voltage is less than 250 V for single-phase installations and 480 V for other installations. For heated blankets and pads, see IEC 60335-2-17. For heated mats and foot warmers, see IEC 60335-2-81. This standard does not cover under-carpet heaters, nor flexible heating elements incorporated in other appliances.

13.180

Ergonoomia

Ergonomics

UUED STANDARDID

EVS-EN 13861:2003

Hind 170,00

Identne EN 13861:2002

Safety of machinery - Guidance for the application of ergonomics standards in the design of machinery

This European standard provides a methodology to achieve a coherent application of various ergonomics standards for the design of machinery. This standard presents a step model calling upon specific standards. This standard can only be used in combination with other relevant ergonomics standards

EVS-EN ISO 7726:2003

Hind 212,00

Identne ISO 7726:1998

ja identne EN ISO 7726:2001

Keskkonna soojuslikud omadused. Mõõteriistad füüsiliste suuruste mõõtmiseks

Käesolev rahvusvaheline standard määrab kindlaks miinimumparameetrid seadmete kohta, mida kasutatakse keskkonda iseloomustavate füüsiliste suuruste mõõtmiseks, ning samuti meetodid selle keskkonna füüsiliste parameetrite mõõtmiseks. Standardi eesmärgiks ei ole määratleda üldist mugavusastet ega soojuskoormust, vaid lihtsalt ühtlustada mugavusastme määramiseks vajaminevate andmete registreerimise protsessi.

13.220.20

Tulekaitsevahendid

Fire protection

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 28411

Tähtaeg: 2003-06-01

Identne ISO 9094-1:2003

ja identne EN ISO 9094-1:2003

Small craft - Fire protection - Part 1: Craft with a hull length of up to and including 15 m

This part of ISO 9094 defines procedure to achieve a partial degree of fire protection, specifies portable fire-fighting equipment and sets requirements for fixed fire-fighting systems

13.220.40

Materjalide ja toodete süttivus ning põlemislaad

Ignitability and burning behaviour of materials and products

UUED STANDARDID

EVS-EN ISO 15540:2003

Hind 66,00

Identne ISO 15540:1999

ja identne EN ISO 15540:2001

Ships and marine technology - Fire resistance of hose assemblies - Test methods

This standard specifies a test procedure for determining the fire resistance of hose assemblies with the nominal diameters of at least 100 mm. It serves for proving whether after the period of fire effect on the test bench specified in ISO 15541, hose assemblies continue to be tight, even when subjected to proof pressure.

13.220.50

Ehitusmaterjalide ja -elementide tulepüsivus

Fire-resistance of building materials and elements

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 33904

Tähtaeg: 2003-06-01

Identne prEN 1366-5:2003

Fire resistance tests for service installations - Part 5: Service ducts and shafts

This Part of EN1366 specifies a method for determining the fire resistance of horizontal service ducts and vertical service shafts, which pass through walls or floors and enclose pipes and cables. The test examines the behaviour of ducts and shafts exposed to fire from outside and from inside the duct. This standard is read in conjunction with EN 1363-1

13.260

Elektrilöögikaitse

Protection against electric shock

UUED STANDARDID

EVS-EN 61477:2003

Hind 0,00

Identne IEC 61477:2001 +

A1:2002

ja identne EN 61477:2002 +

A1:2002

Live working - Minimum requirements for the utilization of tools, devices and equipment

Gives the minimum requirements relative to specification, manufacture, selection, application and maintenance of tools, devices and equipment for live working. It provides the type of information which is useful to skilled persons in order to make the use of tools, devices and equipment safer.

13.280

Kiirguskaitse

Radiation protection

UUED STANDARDID

EVS-EN 12198-3:2003

Hind 92,00

Identne EN 12198-3:2002

Masinate ohutus. Masinatest lähtuvast kiirgusest tulenevate riskide hindamine ja vähendamine. Osa 3: Kiirguse vähendamine summutamise või ekraniseerimisega

The purpose of this European standard is to provide means to enable manufacturers of machinery concerned by a radiation hazard to design and manufacture efficient safeguards against radiations

13.300

Kaitse ohtlike kaupade eest

Protection against dangerous goods

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56111

Tähtaeg: 2003-06-01

Identne prEN 14629:2003

Products and systems for the protection and repair of concrete structures - Test methods - Determination of chloride content in hardened concrete

This standard describes a method for the determination of the acid soluble chloride content of concrete. This information is intended for use in estimating the risk of chloride induced corrosion of the reinforcement. It may be used on dust samples or powder obtained by drilling, cores fragments removed from hardened concrete structures or other appropriate laboratory specimens

prEVS 56112

Tähtaeg: 2003-06-01

Identne prEN 14630:2003

Products and systems for the protection and repair of concrete structures - Test methods - Determination of carbonation depth in hardened concrete by the phenolphthalein method

The phenolphthalein test method is intended for use in estimating the depth of the carbonated layer near the surface of hardened concrete. It is not suitable for concrete made with high-alumina cement. It may be used on site or in the laboratory, on test specimens or on cores or fragments removed from hardened concrete structures

13.320

Häire- ja hoiatussüsteemid

Alarm and warning systems

UUED STANDARDID

EVS-EN 50133-1:2002/A1:2003

Hind 66,00

Identne EN 50133-1:1996/A1:2002

Alarm systems - Access control systems for use in security applications - Part 1: System requirements

This standard specifies requirements for automated access control systems and components in and around buildings. It includes: - system architecture and general requirements of an access control system for security applications; - requirements for functions; - definition of the environmental and electromagnetic compatibility conditions; - requirements for communication of an access control with others, such as access point actuators and sensors, alarm system, etc. The standard does not apply to access point actuators and sensors.

13.340.10

Kaitserõivad

Protective clothing

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 10578

Tähtaeg: 2003-06-01

Identne ISO/DIS 6530:2003

ja identne prEN ISO 6530:2003

Protective clothing - Protection against liquid chemicals - Determination of resistance of materials to penetration by liquids

This European Standard is concerned with the application of the described method of test, usually with chemicals of low volatility. Clothing made of these materials is not for use as the sole means of protection where resistance to permeation by chemicals at the molecular level (see EN ISO 6529) is essential and where a complete barrier to liquid (or gaseous) chemicals is required (e.g. risk of exposure to massive and forceful discharges of concentrated liquid chemicals)

prEVS 13309

Tähtaeg: 2003-05-01

Identne EN 340:1993

Kaitseriietus. Üldnõuded

Standard sätestab üldnõuded kaitseriietuse ergonoomika, aegumise, määrgistuse ja tootja poolt antava informatsiooni kohta

prEVS 34971

Tähtaeg: 2003-06-01

Identne prEN 1621-2:2003

Motorcyclists' protective clothing against mechanical impact - Part 2: Motorcyclists' back protectors - Requirements and test methods

This European Standard specifies the minimum coverage to be provided by motorcyclists back protectors worn by riders in normal traffic situations. The standard contains the requirements for the performance of the protectors under impact and details of the test methods. Requirements for sizing, ergonomic requirements, and requirements for innocuousness, labelling and the provision of information are included

prEVS 56074

prEVS 56074

Tähtaeg: 2003-06-01

Identne prEN 343:2003

Protective clothing - Protection against rain

This European Standard specifies requirements and test methods applicable to materials and seams of protective clothing against the influence of precipitation (e. g. rain, snowflakes), fog and ground humidity. The testing of rain proofness of ready made garments is excluded in this standard at this time because a separate test method for such a property is currently being prepared

13.340.20

Pea kaitsevahendid

Head protective equipment

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 55700

Tähtaeg: 2003-05-01

Identne EN 166:2001

Isiklikud silmade kaitsevahendid.

Spetsifikatsioonid

Standard määratleb erinevat tüüpi silmade kaitsevahenditele esitatavad funktsionaalsed nõuded ning sisaldab põhilisi kaitsevahenditega seonduvaid aspekte, nagu näiteks: tähistused,

klassifikatsioon, kõigi silmade kaitsevahendite osas kehtivad baasnõuded, erinevad eri- ja täiendavad nõuded, nõuete jagunemine, testimine ja rakendamine, märgistamine, kasutajale vajalik informatsioon.

13.340.30

Respiraatorid

Respiratory protective devices

UUED STANDARDID

EVS-EN 12942:1999/A1:2003

Hind 66,00

Identne EN 12942:1998/A1:2002

Hingamisteede kaitsevahendid.

Sundventilatsiooniga

filtreerimiseadised, millel on

täismaskid, poolmaskid või

veerandmaskid. Nõuded,

katsetamine, märgistus

Käesolev Euroopa standard määrab kindlaks miinimumnõuded hingamisteede sundventilatsiooniga kaitsevahenditele, mille hulka

kuulub täismask, poolmask või

veerandmask koos gaasifiltriga,

tahkete osakeste filtriga või

kombineeritud filtriga. Hõlmatud

ei ole seadiseid, mis on ette nähtud

kasutamiseks tingimustes, kus

esineb või võib esineda

hapnikuvaegus (hapnikku on

vähem kui 17 mahuprotsenti).

Seega ei hõlma standard

ohupiirkonnast pääsemiseks

kasutatavaid hingamisteede

kaitsevahendeid

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 55716

Tähtaeg: 2003-05-01

Identne EN 149:2001

Hingamisteede kaitsevahendid.

Lenduvate osakeste eest

kaitsvad filtreerivad

poolmaskid. Nõuded,

katsetamine, märgistus

Standard sätestab

miinimumnõuded filtreerivatele

poolmaskidele, mida kasutatakse

hingamisteede kaitsmiseks osakeste

eest erinevates olukordades,

hädaolukorras väljapääsemine välja

arvatud

prEVS 55853

Tähtaeg: 2003-05-01

Identne EN 141:2000

Hingamisteede kaitsevahendid.

Gaasifiltrid ja kombineeritud

filtrid. Nõuded, testimine,

märgistus

Standard käsitleb gaasifiltreid ja kombineeritud filtreid, mis on mõeldud kasutamiseks iseseisvate hingamisteede kaitsevahendite komponentidena. Standard ei käsitle kergkeevate orgaaniliste ühendite eest kaitsvaid AX filtreid, teatud erihendite eest kaitsvaid SX filtreid ja CO filtreid.

13.340.40

Kaitsekindad

Protective gloves

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 12049

Tähtaeg: 2003-05-01

Identne EN 420:1994

Üldnõuded kinnastele

Standard määratleb kõigi

kaitsekinnaste ergonoomika,

kinnaste materjali, hea nähtavuse,

ohutuse, puhastamise, mugavuse ja

efektiivsuse, tähistamise ja

lisainformatsiooni osas kehtivad

üldised nõuded.

prEVS 56073

Tähtaeg: 2003-06-01

Identne prEN 388:2003

Protective gloves against

mechanical risks

This European Standard specifies

requirements, test methods,

marking and information to be

supplied, for protective gloves

against the mechanical risks of

abrasion, blade cut, tear and

puncture. This standard is only

applicable in conjunction with EN

420

17.040.01

Joon- ja nurgamõõtmised üldiselt

Linear and angular

measurements in general

UUED STANDARDID

EVS-EN ISO 1119:2003

Hind 66,00

Identne ISO 1119:1998

ja identne EN ISO 1119:2002

Geometrical product

specifications (GPS) - Series of

conical tapers and taper angles

This International Standard gives a

series of conical tapers, ranging

from 120° to less than 1°, or ratios

from 1:0,289 to 1:500, intended for

general use in mechanical

engineering

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 15448

Tähtaeg: 2003-06-01

Identne ISO 2538:1998

ja identne EN ISO 2538:2003

Geometrical product

specifications (GPS) - Series of

angles and slopes on prisms

This international standard

specifies two series of prism angles

from 120 degrees to 30° and a

series of prism slopes from 1:10 to

1:500 for general mechanical

engineering purposes

17.040.20

Pindade omadused

Properties of surfaces

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56114

Tähtaeg: 2003-06-01

Identne prEN 13523-17:2003

Coil coated metals - Test

methods - Part 17: Adhesion of

strippable films

This Part of EN 13523 describes

two procedures for determining

the numerical evaluation of the

adhesion of strippable films which

have previously been applied to an

organic coating on a metallic

substrate. Samples can be tested

irrespective of whether the

strippable film has been applied in

the laboratory or on the

production line. Procedure 1 is

preferred for films with adhesive

and procedure 2 for films without

adhesive

prEVS 56115

Tähtaeg: 2003-06-01

Identne prEN 13523-11:2003

Coil coated metals - Test

methods - Part 11: Resistance to

solvents (rubbing test)

This part of EN 13523 specifies

the procedure for evaluating the

degree of curing by determining

the resistance of an organic coating

on a metallic substrate to solvents,

e.g. methyl ethyl ketone (M.E.K.)

prEVS 56116

Tähtaeg: 2003-06-01

Identne prEN 13523-12:2003

Coil coated metals - Test

methods - Part 12: Resistance to

scratching

This Part of EN 13523 describes the procedure for determining the resistance of an organic coating on a metallic substrate to penetration by scratching with a needle. It may be found that with some aluminium alloys and thin gauge steel substrate below 0,4 mm, that rather than scratching, the needle will deform the substrate. Under these conditions this test method is not applicable

prEVS 56117

Tähtaeg: 2003-06-01

Identne prEN 13523-16:2003

Coil coated metals - Test methods - Part 16: Resistance to abrasion

This Part of EN 13523 describes the procedure for determining the resistance to abrasion and wear of an organic coating on a metallic substrate

prEVS 56118

Tähtaeg: 2003-06-01

Identne prEN 13523-20:2003

Coil coated metals - Test methods - Part 20: Foam adhesion

This Part of EN 13523 describes the procedure for testing foam adhesion to an organic coating on a metallic substrate under dry and wet conditions. For this procedure the foam is applied on a lab-scale

prEVS 56119

Tähtaeg: 2003-06-01

Identne prEN 13523-24:2003

Coil coated metals - Test methods - Part 24: Resistance to blocking and pressure marking

This Part of EN 13523 describes the procedure for determining the resistance to blocking and/or pressure marking of an organic coating on a metallic substrate

17.140.01

Akustilised mõõtmised ja müra vähendamise üldküsimumused

Acoustic measurements and noise abatement in general

UUED STANDARDID

EVS-EN ISO 9614-3:2003

Hind 170,00

Identne ISO 9614-3:2002

ja identne EN ISO 9614-3:2002

Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 3: Precision method for measurement by scanning

This part of ISO 9614 specifies a method for measuring the component of sound intensity normal to a measurement surface which is chosen so as to enclose the sound source(s) of which the sound power level is to be determined

17.140.30

Sõidukimüra

Noise emitted by means of transport

UUED STANDARDID

EVS-EN ISO 14509:2003

Hind 109,00

Identne ISO 14509:2000

ja identne EN ISO 14509:2000

Small craft - Measurement of airborne sound emitted by powered recreational craft

17.220.20

Elektriliste ja magnetiliste suuruste mõõtmine

Measurement of electrical and magnetic quantities

UUED STANDARDID

EVS-EN 60044-3:2003

Hind 139,00

Identne IEC 60044-3:2002

ja identne EN 60044-3:2002

Instrument transformers - Part 3: Combined transformers

This part of IEC 60044 applies to newly manufactured combined transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15 Hz to 100 Hz. The requirements and tests of this standard, in addition to the requirements and tests of IEC 60044-1, IEC 60044-2 and IEC 60044-5 cover current, voltage and capacitor voltage transformers, that are necessary for combined instrument transformers. This standard shall be used in conjunction with IEC 60044-1 and IEC 60044-2.

EVS-EN 60044-1:2002/A2:2003

Hind 49,00

Identne IEC 60044-1:1996/

A2:2002

ja identne EN 60044-1:1999/

A2:2003

Instrument transformers - Part 1: Current transformers

This part of IEC 44 applies to newly manufactured current transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15 Hz to 100 Hz. Although the requirements are applicable primarily to transformers with separate windings, they are also applicable, where appropriate to autotransformers.

EVS-EN 60044-2:2002/A2:2003

Hind 49,00

Identne IEC 60044-2:1996/

A2:2002

ja identne EN 60044-2:1999/

A2:2003

Instrument transformers - Part 2: Inductive voltage transformers

This part of IEC 44 applies to new inductive voltage transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15 Hz to 100 Hz. Although, this standard relates basically to transformers with separate windings, it is also applicable, where appropriate, to autotransformers. This standard does not apply to transformers for use in laboratories.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 21370

Tähtaeg: 2003-06-01

Identne IEC 60-2:1994

ja identne EN 60060-2:1994

High voltage test techniques - Part 2: Measuring systems

Is applicable to complete Measuring Systems, and to their components, used for the measurement of high-voltages and currents during tests with direct voltage, alternating voltage, lightning and switching impulse voltages and for tests with impulse currents, or with combinations of them as specified in IEC 60-1. Replaces IEC 60-3 and 60-4

prEVS 56145

Tähtaeg: 2003-06-01

Identne IEC 62052-11:2003

ja identne EN 62052-11:2003

Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 11: Metering equipment

Covers type tests for electricity metering equipment for indoor and outdoor application and to newly manufactured equipment designed to measure the electric energy on 50 Hz or 60 Hz networks, with a voltage up to 600 V. It applies to electromechanical or static meters for indoor and outdoor application consisting of a measuring element and register(s) enclosed together in a meter case. It also applies to operation indicator(s) and test output(s)

17.240

Kiirgusmõõtmised

Radiation measurements

UUED STANDARDID

EVS-EN 12198-2:2003

Hind 101,00

Identne EN 12198-2:2002

Masinate ohutus. Masinatest lähtuvast kiirgusest tulenevate riskide hindamine ja vähendamise. Osa 2: Kiirguse mõõtmine

This European Standard defines basic technology and specifies general procedures for making and reporting measurements of quantities related to radiation emitted by machinery. It covers the different radiation emissions as defined in EN 12198-1

19.040

Keskkonnakatsetused

Environmental testing

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 23142

Tähtaeg: 2003-06-01

Identne IEC 68-2-6:1995 +

Corr.:1995

ja identne EN 60068-2-6:1995

Environmental testing - Part 2:

Tests - Test Fc: Vibration (sinusoidal)

Gives a method of test which provides a standard procedure to determine the ability of components, equipment and other articles to withstand specified severities of sinusoidal vibration. Has the status of a basic safety publication in accordance with IEC Guide 104

prEVS 25411

Tähtaeg: 2003-06-01

Identne IEC 68-2-60:1995

ja identne EN 60068-2-60:1996

Environmental testing - Part 2: Tests - Test Ke: Flowing mixed gas corrosion test

Determines the corrosive influence of operating and storage indoor environments on electrotechnical products components, equipment and materials, particularly contacts and connections, considered separately, integrated into a subassembly or assembled as a complete equipment. Has the status of a basic safety publication in accordance with IEC Guide 104

prEVS 25542

Tähtaeg: 2003-06-01

Identne IEC 68-4:1987 +

A1:1992+A2:1994

ja identne EN 60068-4:1996

Environmental testing. Part 4: Information for specification writers - Test summaries

Provides information on individual environmental tests for specification writers and others when a knowledge of the detailed provisions of the complete standard is not required. These summaries are not intended to be a substitute for the standards concerned

prEVS 26030

Tähtaeg: 2003-06-01

Identne IEC 68-2-70:1995

ja identne EN 60068-2-70:1996

Environmental testing - Part 2:

Tests - Test Xb: Abrasion of marking and letterings caused by rubbing of fingers and hands

Is intended to provide a standard method to determine the resistance of markings and letterings on flat or curved surfaces against abrasion as it may occur by manually operating actuators and keyboards. The method is also suitable to test the resistance against fluid contamination as it may occur under normal use

prEVS 26281

Tähtaeg: 2003-06-01

Identne IEC 68-2-69:1995

ja identne EN 60068-2-69:1996

Environmental testing - Part 2:

Tests - Test Te: Solderability testing of electronic components for surface mount technology by the wetting balance method

Describes two wetting balance methods. These methods determine quantitatively the solderability of terminations on surface mounted devices. The procedures describe the solder bath wetting balance method and the solder globuwetting balance method and are both applicable to components with metallic termination and metallized solder pads

prEVS 26947

Tähtaeg: 2003-06-01

Identne IEC 68-2-44:1995

ja identne EN 60068-2-44:1995

Environmental testing - Part 2: Tests - Guidance on test T: Soldering

Provides background information and recommendations for writers of specifications containing references to IEC 68-2-20, IEC 68-2-54 and IEC 68-2-58

prEVS 26996

Tähtaeg: 2003-06-01

Identne IEC 68-2-52:1996

ja identne EN 60068-2-52:1996

Environmental testing - Part 2: Tests - Test Kb: Salt mist, cyclic (sodium, chloride solution)

Determines the suitability of components and equipment for use or exposure in a salt-laden atmosphere

prEVS 34445

Tähtaeg: 2003-06-01

Identne IEC 68-2-17:1994

ja identne EN 60068-2-17:1994

Environmental testing - Part 2: Tests - Test Fc: Vibration (sinusoidal)

Gives a method of test which provides a standard procedure to determine the ability of components, equipment and other articles to withstand specified severities of sinusoidal vibration. Has the status of a basic safety publication in accordance with IEC Guide 104

prEVS 34455

Tähtaeg: 2003-06-01

Identne IEC 68-2-45 + Corr.:1981

+ A1:1993

ja identne EN 60068-2-45:1982 +

A1:1993

Environmental testing; part 2: test methods; test XA and guidance: immersion in cleaning solvents

Applies to electronic components and other parts mounted on printed circuit boards which may be subjected to cleaning operations. Also gives information on test solvents and test temperatures

prEVS 56160

Tähtaeg: 2003-06-01

Identne IEC 68-2-1:1993/A2:1994
ja identne EN 60068-2-1:1993/A2:1994

Environmental testing - Part 2: Tests - Tests A: Cold

The object of this standard is to provide a standard test procedure to determine the suitability of non heat-dissipating components, equipment or other articles for use and/or storage under conditions of low temperature and for which the subjection to a sudden change of temperature has no detrimental effect. This procedure is for specimens which are subjected to a low temperature for a time long enough for the specimen to achieve temperature stability.

prEVS 56161

Tähtaeg: 2003-06-01

Identne IEC 68-2-2:1974/A2:1994
ja identne EN 60068-2-2:1993/A2:1994

Basic environmental testing procedures - Part 2: Tests - Tests B: Dry heat

The object of this standard is to provide a test procedure to determine the suitability of non heat-dissipating components, equipment or other articles for use and/or storage under conditions of high temperature and for which the subjection to a sudden change of temperature has no detrimental effect. This procedure is for specimens which are subjected to an elevated temperature for a time long enough for the specimen to achieve temperature stability.

19.080

Elektrilised ja elektroonilised katse- ja mõõtevahendid

Electrical and electronic testing

UUED STANDARDID

EVS-EN 61010-2-032:2003

Hind 130,00

Identne IEC 61010-2-032:2002
ja identne EN 61010-2-032:2002

Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-032: Particular requirements for hand-held current clamps for electrical measurement and test

This International Standard applies to hand-held and hand-manipulated current clamps. These current clamps are for use in the measurement of current without interruption of the current path of the circuit in which it is measured. They may be stand-alone current clamps which are themselves within the scope of part 1, or accessories to other equipment within the scope of part 1.

EVS-EN 61010-2-101:2003

Hind 146,00

Identne IEC 61010-2-101:2002
ja identne EN 61010-2-101:2002

Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment

Applies to equipment intended for in vitro diagnostic (IVD) medical purposes. This is used for the examination of specimens, including blood and tissue samples, derived from the human body. The standard also covers self-test IVD medical equipment for use by lay persons.

KAVANDITE ARVAMUSKÜSITLUS

prEVS 21370

Tähtaeg: 2003-06-01

Identne IEC 60-2:1994
ja identne EN 60060-2:1994

High voltage test techniques - Part 2: Measuring systems

Is applicable to complete Measuring Systems, and to their components, used for the measurement of high-voltages and currents during tests with direct voltage, alternating voltage, lightning and switching impulse voltages and for tests with impulse currents, or with combinations of them as specified in IEC 60-1.

Replaces IEC 60-3 and 60-4
prEVS 30226

Tähtaeg: 2003-06-01

Identne IEC 60112:2003
ja identne EN 60112:2003

Method for the determination of the proof and the comparative tracking indices of solid insulating materials

Specifies the method of test for the determination of the proof and comparative tracking indices of solid insulating materials on pieces taken from parts of equipment and on plaques of material using alternating voltages. The standard provides for the det

19.100

Mittepurustav katsetamine

Non-destructive testing

UUED STANDARDID

EVS-EN ISO 12706:2003

Hind 117,00

Identne ISO 12706:2000
ja identne EN ISO 12706:2000

Non-destructive testing - Terminology - Terms used in penetrant testing

21.040.30

Erikeermed

Special screw threads

KAVANDITE ARVAMUSKÜSITLUS

prEVS 16397

Tähtaeg: 2003-06-01

Identne ISO 228-2:1987
ja identne EN ISO 228-2:2003

Pipe threads where pressure-tight joints are not made on the threads - Part 2: Verification by means of limit gauges

This part of ISO 228 specifies the verification by means of limit gauges, of cylindrical threads, the dimensions and tolerances of which are given in ISO 228-1
prEVS 18595

Tähtaeg: 2003-06-01

Identne ISO 228-1:2000
ja identne EN ISO 228-1:2003

Pipe threads where pressure-tight joints are not made on the threads - Part 1: Dimensions, tolerances and designation

This part of ISO 228 specifies the requirements for thread form, dimensions tolerances and designation for fastening pipe threads, thread sizes 1/16 to 6 inclusive

21.060.01

Kinnituselemendid üldiselt

Fasteners in general

UUED STANDARDID

EVS-EN ISO 16426:2003

Hind 92,00

Identne ISO 16426:2002

ja identne EN ISO 16426:2002

Fasteners - Quality assurance system

This International Standard specifies requirements for a faster quality assurance system to be met by the fastener manufacturers and distributors

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 16048

Tähtaeg: 2003-06-01

Identne ISO 16048:2003

ja identne EN ISO 16048:2003

Passivation of corrosion-resistant stainless-steel fasteners

This International Standard specifies the methods most often used for passivation of corrosion-resistant stainless steel fasteners

21.060.40

Needid

Rivets

UUED STANDARDID

EVS-EN ISO 15981:2003

Hind 66,00

Identne ISO 15981:2002

ja identne EN ISO 15981:2002

Open end blind rivets with break pull mandrel and protruding head - AIA/AIA

This International Standard specifies dimensional and mechanical characteristics and application data for open end blind rivets with break pull mandrel and protruding head, with an aluminium body (ALA) and an aluminium mandrel (ALA) and with nominal diameters, d, from 2,4 mm up to and including 6,4 mm

EVS-EN ISO 15975:2003

Hind 66,00

Identne ISO 15975:2002

ja identne EN ISO 15975:2002

Closed end blind rivets with break pull mandrel and protruding head - Al/AIA

This International Standard specifies dimensional and mechanical characteristics and application data for closed end blind rivets with break pull mandrel and protruding head, with a commercial pure aluminium body (Al) and an aluminium alloy mandrel (AIA) and with nominal diameters, d, from 3,2 mm up to and including 4,8

EVS-EN ISO 15976:2003

Hind 66,00

Identne ISO 15976:2002

ja identne EN ISO 15976:2002

Closed end blind rivets with break pull mandrel and protruding head - St/St

This International Standard specifies dimensional and mechanical characteristics and application data for closed end blind rivets with break pull mandrel and protruding head, with a steel body (St) and a steel mandrel (St) and with nominal diameters, d, from 3,2 mm up to and including 6,4 mm

EVS-EN ISO 15977:2003

Hind 66,00

Identne ISO 15977:2002

ja identne EN ISO 15977:2002

Open end blind rivets with break pull mandrel and protruding head - AIA/St

This International Standard specifies dimensional and mechanical characteristics and application data for open end blind rivets with break pull mandrel and protruding head, with an aluminium body (Al) and a steel mandrel (St) and with nominal diameters, d, from 2,4 mm up to and including 6,4 mm

EVS-EN ISO 15978:2003

Hind 66,00

Identne ISO 15978:2002

ja identne EN ISO 15978:2002

Open end blind rivets with break pull mandrel and countersunk head - AIA/St

This International Standard specifies dimensional and mechanical characteristics and application data for open end blind rivets with break pull mandrel and countersunk head, with an aluminium alloy (AIA) body and a steel mandrel (St) and with nominal diameters, d, from 2,4 mm up to and including 5 mm

EVS-EN ISO 15979:2003

Hind 66,00

Identne ISO 15979:2002

ja identne EN ISO 15979:2002

Open end blind rivets with break pull mandrel and protruding head - St/St

This International Standard specifies dimensional and mechanical characteristics and application data for open end blind rivets with break pull mandrel and protruding head, with a steel body (St) and a steel mandrel (St) and with nominal diameters, d, from 2,4 mm up to and including 6,4 mm

EVS-EN ISO 15980:2003

Hind 66,00

Identne ISO 15980:2002

ja identne EN ISO 15980:2002

Open end blind rivets with break pull mandrel and protruding head - St/St

This International Standard specifies dimensional and mechanical characteristics and application data for open end blind rivets with break pull mandrel and protruding head, with a steel body and a steel mandrel and with nominal diameters, d, from 2,4 mm up to and including 6,4 mm

EVS-EN ISO 15982:2003

Hind 66,00

Identne ISO 15982:2002

ja identne EN ISO 15982:2002

Open end blind rivets with break pull mandrel and countersunk head - AIA/AIA

This International Standard specifies dimensional and mechanical characteristics and application data for open end blind rivets with break pull mandrel and countersunk head, with an aluminium alloy body (AIA) and an aluminium alloy mandrel (AIA) and with nominal diameters, d, from 2,4 mm up to and including 6,4 mm

EVS-EN ISO 15983:2003

Hind 66,00

Identne ISO 15983:2002

ja identne EN ISO 15983:2002

Open end blind rivets with break pull mandrel and protruding head - A2/A2

This International Standard specifies dimensional and mechanical characteristics and application data for open end blind rivets with break pull mandrel and protruding head, with an austenitic stainless steel body (A2) and an austenitic stainless steel mandrel (A2) and with nominal diameters,

d, from 3 mm up to and including 5 mm

EVS-EN ISO 15984:2003

Hind 66,00

Identne ISO 15984:2002

ja identne EN ISO 15984:2002

Open end blind rivets with break pull mandrel and countersunk head - A2/A2

This International Standard specifies dimensional and mechanical characteristics and application data for open end blind rivets with break pull mandrel and countersunk head, with an austenitic stainless steel body (A2) and an austenitic stainless steel mandrel (A2) and with nominal diameters, d, from 3 mm up to and including 5 mm

23.020.10

Statsionaarsed mahutid ja reservuaarid

Stationary containers and tanks

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 39805

Tähtaeg: 2003-06-01

Identne prEN 13121-2:2003

GRP tanks and vessels for use above ground - Part 2:

Composite materials - Chemical resistance

This European Standard gives requirements for chemical resistance of composite materials used for GRP tanks and vessels for storage or processing of fluids, for use above ground. The tanks or vessels can be factory made or site built, with or without lining

23.020.30

Surveanumad, gaasiballoonid

Pressure vessels, gas cylinders

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 28579

Tähtaeg: 2003-06-01

Identne prEN 14638-1:2003

Transportable gas cylinders - Refillable welded receptacles of a capacity not exceeding 150 litres - Part 1: Welded austenitic stainless steel cylinders made to a design justified by finite element and/or experimental methods

This European Standard gives minimum requirements concerning material, design, construction and workmanship, procedures and tests at manufacture of refillable transportable welded cylinders made of austenitic stainless steel, justified by experimental methods (and/or appropriate stress analysis), of water capacities from 0,5 litre up to and including 150 litres for compressed or liquefied gases

23.040

Torustike osad ja torustikud

Pipeline components and pipelines

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56094

Tähtaeg: 2003-06-01

Identne prEN 14628:2003

Ductile iron pipes, fittings and accessories - External polyethylene coating for pipes in highly aggressive soils - Requirements and test methods

This European standard defines the requirements and test methods applicable to factory applied extruded polyethylene coatings for the external corrosion protection of ductile iron pipes conforming to EN 545, EN 598 and EN 969 for use at operating temperatures up to 50°C. This standard does not cover ductile iron pipes protected with thin PE sleeve

23.040.10

Malm- ja terastorud

Iron and steel pipes

UUED STANDARDID

EVS-EN 10224:2003

Hind 212,00

Identne EN 10224:2002

Non-alloy steel tubes and fittings for the conveyance of aqueous liquids including water for human consumption - Technical delivery conditions

This European Standard specifies requirements for the products listed below used for the conveyance of aqueous liquids, including water for human consumption: - seamless and welded non-alloy steel tubes; - end preparation of tube ends for butt welding; - fittings fabricated from the tube; - fittings fabricated from plate or strip

EVS-EN 10312:2003

Hind 155,00

Identne EN 10312:2002

Welded stainless steel tubes for the conveyance of aqueous liquids including water for human consumption - Technical delivery conditions

This European Standard specifies the technical delivery conditions for light gauge welded stainless steel tubes, primarily for water application, including water intended for human consumption, supplied in straight lengths and suitable for use with compression fittings or press fittings or for adhesive bonding, silver brazing or inert gas welding of capillary fittings. The standard is applicable to the size range from 6 mm to 267 mm outside diameter made of stainless (except martensitic and precipitation hardening) steel grades taken from EN 10088-2

23.040.20

Plasttorud

Plastics pipes

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56123

Tähtaeg: 2003-06-01

Identne prEN 14636-1:2003

Plastics piping systems for non-pressure drainage and sewerage - Polyester resin concrete (PRC) - Part 1: Pipes and fittings with flexible joints

This European standard applies to pipes and fittings when made from polyester resin concrete (PRC), intended to be used within a drain or sewer system operating without pressure. It applies to products primarily for use in buried installations to be installed by open-trench techniques or pipe jacking

23.040.40**Metallist toruliitmikud**

Metal fittings

UUED STANDARDID**EVS-EN 10224:2003**

Hind 212,00

Identne EN 10224:2002

Non-alloy steel tubes and fittings for the conveyance of aqueous liquids including water for human consumption -**Technical delivery conditions**

This European Standard specifies requirements for the products listed below used for the conveyance of aqueous liquids, including water for human consumption: - seamless and welded non-alloy steel tubes; - end preparation of tube ends for butt welding;- fittings fabricated from the tube;- fittings fabricated from plate or strip

23.040.70**Voolikud ja voolikuühendused**

Hoses and hose assemblies

UUED STANDARDID**EVS-EN ISO 4080:2003**

Hind 75,00

Identne ISO 4080:1991 +

Corr.2:1998

ja identne EN ISO 4080:1995 +

AC:1998

Kummi- ja plastvoolikud ning voolikukomplektid - Gaasi läbitungimisvõime määramine**KAVANDITE****ARVAMUSKÜSITLUS**

prEVS 26115

Tähtaeg: 2003-06-01

Identne ISO 10380:2003

ja identne EN ISO 10380:2003

Pipework - Corrugated metal hoses and hose assemblies

This International Standard specifies the requirements for the design, manufacture and testing of corrugated metal hoses and hose assemblies for general purposes

23.060.40**Rõhuregulaatorid**

Pressure regulators

UUED STANDARDID**EVS-EN 12864:2003**

Hind 283,00

Identne EN 12864:2001

Low-pressure, non adjustable regulators having a maximum outlet pressure of less than or equal to 200 mbar, with a capacity of less than or equal to 4 kg/h, and their associated safety devices for butane, propane or their mixtures

This European standard defines the structural and operational characteristics, the safety requirements and test methods, the marking, of low-pressure, non adjustable regulators for butane, propane or their mixtures, referred to in the body of the text as "regulators". This European Standard covers regulators supplied at vapour pressure by one or several portable cylinders. They are normally directly connected to the cylinder valve or the self closing valve.

23.060.99**Muud sulgeseadmed**

Other valves

UUED STANDARDID**EVS-EN 12380:2003**

Hind 139,00

Identne EN 12380:2002

Air admittance valves for drainage systems - Requirements, tests methods and evaluation of conformity

This European Standard establishes requirements, test methods and evaluation of conformity for air admittance valves to be used in drainage systems installed inside buildings in accordance with EN 12056-2 and EN 12056-5. It specifies the performance requirements of air admittance valves and how to test them to demonstrate compliance with this standard

23.080**Pumbad**

Pumps

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 29179

Tähtaeg: 2003-06-01

Identne EN 13951:2003

Liquid pumps - Safety requirements - Agrifoodstuffs equipment ; Design rules to ensure hygiene in use

This European Standard is concerned with the special technical safety requirements for liquid pumps and pump units operating with agrifoodstuffs. It augments EN 809 and contains a list of the additional significant hazards which can arise from the pump and pump units used with substances intended for human and domestic animal consumption

prEVS 56130

Tähtaeg: 2003-06-01

Identne ISO 15783:2002

ja identne EN ISO 15783:2003

Seal-less rotodynamic pumps -**Class II - Specification**

This International Standard specifies the requirements for seal-less rotodynamic pumps that are driven with permanent magnet coupling (magnet drive pumps) or with canned motor, and which are mainly used in chemical processes, water treatment and petrochemical industries

23.140**Kompressorid ja suruõhumasinad**

Compressors and pneumatic machines

UUED STANDARDID**EVS-EN 60335-2-34:2003**

Hind 163,00

Identne IEC 60335-2-34:2002

ja identne EN 60335-2-34:2002

Safety of household and similar electrical appliances - Part 2-34: Particular requirements for motor-compressors

This standard applies to sealed (hermetic and semi-hermetic type) motor-compressors intended for use in equipment for household and similar purposes and which conform with the standards applicable to such equipment. It applies to motor-compressors tested separately, under the most severe conditions which may be expected to occur in normal use, their rated voltage being not more than 250 V for single-phase motor-compressors and 480 V for other motor-compressors.

25.040

Tööstusautomaatika süsteemid

Industrial automation systems

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 29503

Tähtaeg: 2003-06-01

Identne IEC 61158-3 - 65C/197/
FDIS:1998

ja identne prEN 61158-3:2003

Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 3: Data Link Service definition

Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00

prEVS 29504

Tähtaeg: 2003-06-01

Identne IEC 61158-4 - 65C/198/
FDIS:1998

ja identne prEN 61158-4:2003

Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 4: Data Link protocol specification

Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00

prEVS 29505

Tähtaeg: 2003-06-01

Identne IEC 61158-5 - 65C/1997
FDIS:1998

ja identne prEN 61158-5:2003

Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 5: Application Layer Service definition

Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00

prEVS 29506

Tähtaeg: 2003-06-01

Identne IEC 61158-6 -

65C/200/FDIS:1998

ja identne prEN 61158-6:2003

Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 6: Application Layer protocol specification

Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00

25.040.40

Mõõtmise ja kontrolli tööstusprotsessides

Industrial process measurement and control

UUED STANDARDID

EVS-EN ISO 10303-210:2003

Hind 560,00

Identne ISO 10303-210:2001

ja identne EN ISO 10303-210:2002

Industrial automation systems and integration - Product data representation and exchange - Part 210: Application protocol: Electronic assembly, interconnection, and packaging design

25.080.01

Tööpingid üldiselt

Machine tools in general

UUED STANDARDID

EVS-EN 50370-2:2003

Hind 126,00

Identne EN 50370-2:2003

Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 2: Immunity

This standard deals with the electromagnetic immunity of machine tools designed exclusively for industrial and similar purposes that use electricity, the rated voltage of the machine tool not exceeding 1 000 V a.c. or 1 500 V d.c. between lines. Machine tools may incorporate motors, heating elements or their combination, may contain electric or electronic circuitry, and may be powered by the mains, or any other electrical power source. This immunity standard may also be used for assessment of equipment used in other environments, which require less stringent immunity levels (residential, light industry) than the industrial environment. This standard is not intended for the EMC conformity assessment of modules to be placed on the market separately. This standard is not intended for complying with Machinery Directive 98/37/EC. Hence safety considerations are not covered by this standard. This standard does not cover fixed installations as defined in the Guide to the Application of Directive 89/336/EEC, published by the European Commission. This standard does not apply to apparatus intended to be used in locations where special

electromagnetic conditions prevail, such as the presence of high electromagnetic fields (e.g. in the vicinity of a broadcast transmitting station) or where high pulses occur on the power network (e.g. in a power generator station). In these instances special mitigation measures may have to be employed. Immunity requirements in the frequency range 0 Hz to 400 GHz are covered. No measurements need to be performed at frequencies where no

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56128

Tähtaeg: 2003-06-01

Identne prEN 14070:2003

Safety of machine tools - Transfer and special purpose machines

This standard specifies the technical safety requirements and protective measures to be adopted by persons undertaking the design, construction and supply (including information which must be provided for installation and

dismantling, with arrangements for transport and maintenance) of transfer and special purpose machines (see 3.1)

25.080.10

Treipingid

Lathes

UUED STANDARDID

EVS-EN 12415:2001/A1:2003

Hind 66,00

Identne EN 12415:2000/A1:2002

Safety of machine tools - Small numerically controlled turning machines and turning centres

This European Standard specifies requirements and/or measures to remove the hazards and limit risks on general purpose numerically controlled turning machines and turning centres which are designed primarily to work cold metal with no access to the work-zone during machining as defined in 3.1 and 3.2 and hereafter referred to as machines

25.080.60

Saagimispingid

Sawing machines

UUED STANDARDID

EVS-EN 61029-2-9:2003

Hind 170,00

Identne IEC 61029-2-9:1995

ja identne EN 61029-2-9:2002

Safety of transportable motor-operated electric tools - Part 2: Particular requirements for mitre saws

Applies to transportable mitre saws intended for cutting non ferrous metals such as aluminium, wood and similar materials with a blade diameter not exceeding 400 mm. Tools combining the function of mitre saw with the function of circular saw are not covered by this standard.

25.140.20

Elektritööriistad

Electric tools

UUED STANDARDID

EVS-EN 61029-2-9:2003

Hind 170,00

Identne IEC 61029-2-9:1995

ja identne EN 61029-2-9:2002

Safety of transportable motor-operated electric tools - Part 2: Particular requirements for mitre saws

Applies to transportable mitre saws intended for cutting non ferrous metals such as aluminium, wood and similar materials with a blade diameter not exceeding 400 mm. Tools combining the function of mitre saw with the function of circular saw are not covered by this standard.

EVS-EN 60335-2-45:2003

Hind 130,00

Identne IEC 60335-2-45:2002

ja identne EN 60335-2-45:2002

Safety of household and similar electrical appliances - Part 2: Particular requirements for portable heating tools and similar appliances

This standard deals with the safety of portable electric heating tools and similar appliances, their rated voltage being not more than 250 V.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56142

Tähtaeg: 2003-06-01

Identne IEC 60745-2-20:2003

ja identne prEN 60745-2-20:2003

Hand-held motor-operated electric tools - Safety Part 2-20: Particular requirements for band saws

Deals with the safety of hand held motor operated electric tools, particular requirements for band saws. The rated voltage being not more than 250 V for single-phase a.c. or d.c., and 440 V for three phase a.c. tools

25.160.20

Elektroodid ja täidisemetallid

Welding consumables

UUED STANDARDID

EVS-EN 13347:2003

Hind 117,00

Identne EN 13347:2002

Copper and copper alloys - Rod and wire for welding and braze welding

This European Standard specifies the composition, property requirements and dimensional tolerances for copper and copper alloy rod and wire intended for welding and braze welding purposes. The sampling

procedures, the methods of test for verification of conformity to the requirements of this standard, and the delivery conditions are also specified

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56113

Tähtaeg: 2003-06-01

Identne prEN 14640:2003

Welding consumables - Solid wires and rods for fusion welding of copper and copper alloys - Classification

This standard specifies requirements for classification of solid wires and rods for fusion welding of copper and copper alloys. The classification of the solid wires and rods is based on their chemical composition

25.160.50

Jootmine kõva- ja pehmejoodisega

Brazing and soldering

UUED STANDARDID

EVS-EN 13347:2003

Hind 117,00

Identne EN 13347:2002

Copper and copper alloys - Rod and wire for welding and braze welding

This European Standard specifies the composition, property requirements and dimensional tolerances for copper and copper alloy rod and wire intended for welding and braze welding purposes. The sampling procedures, the methods of test for verification of conformity to the requirements of this standard, and the delivery conditions are also specified

25.220.20

Pinnatöötlus

Surface treatment

UUED STANDARDID

EVS-EN ISO 14921:2003

Hind 66,00

Identne ISO 14921:2001

ja identne EN ISO 14921:2002

Thermal spraying - Procedures for the application of thermally sprayed coatings for engineering components

This standard relates to the methods of application of thermally sprayed coatings as defined in EN 657. The purpose of these coatings being either to reclaim worn and non conforming parts or to enhance the surface properties of components for specific purposes.

27.040

Gaasi- ja auruturbiinid. Aurumasinad

Gas and steam turbines.
Steam engines

UUED STANDARDID

EVS-EN 12952-9:2003

Hind 139,00

Identne EN 12952-9:2002

Water-tube boilers and auxiliary installations - Part 9: Requirements for firing systems for pulverized solid fuels for the boiler

This European Standard applies to pulverized fuel firing systems of steam boilers and hot water generators and commence at the filling equipment for the boiler bunkers or for the pulverized fuel storage system and end at the ash extraction plant. For multifuel firing systems using separate or combined burners these requirements apply to the pulverized fuel firing part involved. For other fuels or firing systems used in combination other requirements apply e.g. EN 12952-8

EVS-EN 12952-16:2003

Hind 117,00

Identne EN 12952-16:2002

Water-tube boilers and auxiliary installations - Part 16: Requirements for grate and fluidized-bed firing systems for solid fuels for the boiler

This European Standard applies to atmospheric fluidized-bed and grate firing systems. These systems commence at the fuel bunkers and end at the ash extraction plant. For combination of various firing systems, the individual requirements of each system apply, especially those included in prEN 12952-8 and prEN 12952-9

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 14047

Tähtaeg: 2003-06-01

Identne ISO 3977-5:2001

ja identne EN ISO 3977-5:2003

Gas turbines - Procurement - Part 5: Applications for petroleum and natural gas industries

This part of ISO 3977 specifies requirements and gives recommendations for the design, materials, fabrication, inspection, testing and preparation for shipment of packaged gas turbines for use in drilling, production, refining and the transport by pipelines of petroleum and natural gas

prEVS 56159

Tähtaeg: 2003-06-01

Identne IEC 45-1:1991

ja identne EN 60045-1:1993

Steam turbines - Part 1: Specifications

Applies to steam turbines driving generators for electrical power services. Includes provisions relevant to turbines for other applications. Enables a prospective purchaser to be aware of the available options and alternatives and to explain his technical requirements to suppliers. Replaces IEC 60045 (1970)

27.060.30

Katlad ja soojusvahetid

Boilers and heat exchangers

UUED STANDARDID

EVS-EN ISO 15547:2003

Hind 146,00

Identne ISO 15547:2000

ja identne EN ISO 15547:2001

Petroleum and natural gas industries - Plate heat exchangers

This standard gives requirements and recommendations for the mechanical design, materials selection, fabrication, inspection, testing, and preparation for shipment of plate heat exchangers, sometimes referred to as plate-and-frame heat exchangers, for use in petroleum and natural gas industries.

27.140

Hüdroenergeetika

Hydraulic energy engineering

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 24938

Tähtaeg: 2003-06-01

Identne IEC 41:1991

ja identne EN 60041:1994

Field acceptance tests to determine the hydraulic performance of hydraulic turbines, storage pumps and pump-turbines

Specifies methods for any size and type of impulse or reaction turbine, storage pump or pump turbine. Determines whether the contract guarantees have been fulfilled and deals with the rules governing these tests as well as the methods of computing the results and the content and style of the final report. Replaces IEC 60198 (1966) and IEC 60607 (1978)

29.020

Elektrotehnika üldküsimumused

Electrical engineering in
general

UUED STANDARDID

EVS-EN 55020:2003/A1:2003

Hind 49,00

Identne CISPR 20:2002/A1:2002

ja identne EN 55020:2002/
A1:2003

Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement
This standard for immunity requirements applies to television broadcast receivers, sound broadcast receivers and associated equipment intended for use in the residential, commercial and light industrial environment. Immunity requirements are given in the frequency range 0 Hz to 400 GHz. Radio-frequency tests outside the specified frequency bands or concerning other phenomena than given in this standard are not required.

29.035.01

Isolatsioonimaterjalid üldiselt

Insulating materials in
general

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 30226

Tähtaeg: 2003-06-01

Identne IEC 60112:2003

ja identne EN 60112:2003
Method for the determination of the proof and the comparative tracking indices of solid insulating materials
Specifies the method of test for the determination of the proof and comparative tracking indices of solid insulating materials on pieces taken from parts of equipment and on plaques of material using alternating voltages. The standard provides for the det

29.060
Elektrijuhtmed, kaablid jm juhid

Electrical wires and cables

KAVANDITE
ARVAMUSKÜSITLUS

prEVS 27221
Tähtaeg: 2003-06-01
Identne prEN 50289-4-12:2003
Test methods common to cables subject to fire - Testing vertical flame spread on bunched wires for all communication cables
EN 50266 sets out the test methods to be used when evaluating the vertical spread of a flame on bunched electrical or optical wires or cables, in a vertical position, in the conditions defined

29.060.01
Elektrijuhtmed ja kaablid üldiselt

Electrical wires and cables in general

UUED STANDARDID

EVS-HD 384.5.523 S2:2003
Hind 229,00
Identne IEC 60364-5-523:1999
ja identne HD 384.5.523 S2:2001
Electrical installations of buildings - Part 5: Selection and erection of electrical equipment - Section 523: Current-carrying capacities in wiring systems
Deals with the selection and erection of wiring systems.

29.060.20
Kaablid

Cables

UUED STANDARDID

EVS-HD 21.1 S4:2003
Hind 146,00
Identne HD 21.1 S4:2002
Cables of rated voltages up to and including 450/750 V and having thermoplastic insulation Part 1: General requirements
HD 21 applies to rigid and flexible cables with insulation and sheath, if any, based on thermoplastic materials, of rated voltages U_0/U up to and including 450/750 V, used in power installations. This Part 1 specifies the General Requirements applicable to these cables.
EVS-HD 22.1 S4:2003
Hind 170,00
Identne HD 22.1 S4:2002
Cables of rated voltages up to and including 450/750 V and having cross-linked insulation Part 1: General requirements
HD 22 applies to rigid and flexible cables, sheathed and unsheathed, and insulated with cross-linked material, of rated voltages U_0/U up to and including 450/750V, used in power installations. This Part 1 specifies the general requirements applicable to these cables.
EVS-HD 22.14 S2:2003
Hind 117,00
Identne HD 22.14 S2:2002
Cables of rated voltages up to and including 450/750 V and having cross-linked insulation - Part 14: Cords for applications requiring high flexibility
This Part 14 of HD 22 details the particular specifications for EPR insulated and EPR sheathed, XLPVC insulated and XLPVC sheathed, and EPR insulated and textile braid covered cords of rated voltage 300/300 V, for use in applications where high flexibility is required. All cables shall comply with the appropriate requirements given in Part 1 of this HD, and the individual types of cable shall each comply with the particular requirements of this Part.
EVS-HD 21.2 S3:2001/A1:2003
Hind 75,00
Identne HD 21.2:
S3:1997/A1:2002

Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 2: Test methods

HD 21 applies to rigid and flexible cables with insulation and sheath, if any, based on polyvinyl chloride, of rated voltages U_0/U up to and including 450/750 V used in power installations of nominal voltage not exceeding 450/750 V A.C. This Part 2 specifies the methods of carrying out the tests specified in HD 21 in conjunction with HD 405.1 and EN 60811.

EVS-HD 22.2 S3:2001/A1:2003
Hind 66,00

Identne HD 22.2 S3:1997/A1:2002
Cables of rated voltages up to and including 450/750 V and having cross-linked insulation - Part 2: Test methods

HD 22 applies to rigid and flexible cables with insulation and sheath, if any, based on vulcanised rubber, of rated voltages U_0/U up to and including 450/750 V used in power installations of nominal voltage not exceeding 450/750 V A.C. This Part 2 specifies the methods of carrying out the tests specified in HD 22 in conjunction with HD 405.1 and 60811. General requirements are specified in HD 22.1.

EVS-HD 626 S1:2001/A2:2003
Hind 306,00

Identne HD 626 S1:1996/A2:2002
Overhead distribution cables of rated voltage $U_0/U(U_m)$: 0,6/1 (1.2) kV

HD 626 applies to cables of rated voltage $U_0/U(U_m) = 0.6 / 1(1.2)$ kV used in overhead power distribution systems mainly for public distribution, of maximum system voltage not exceeding 1.2 kV. This part (Part 1) specifies the general requirements applicable to these cables, unless otherwise specified in the particular sections of this HD. Test methods are specified in HD 383, HD 405, EN 60811 and in HD 605 or in Part 2 of this HD. The particular types of cables are specified in Part 3 to 8.

KAVANDITE
ARVAMUSKÜSITLUS

prEVS 56141
Tähtaeg: 2003-06-01
Identne prEN 50407-1:2003
Multi-pair cables used in high bit rate digital access telecommunication networks Part 1: Outdoor cables

This European Standard defines outdoor multi-pair cables for use in high bit rate digital telecommunication networks with their relative definitions and requirements

29.080.10

Isolaatorid.

Insulators

UUED STANDARDID

EVS-EN 61952:2003

Hind 179,00

Identne IEC 61952:2002

ja identne EN 61952:2003

Insulators for overhead lines - Composite line post insulators for a.c. with a nominal voltage greater than 1000 V

Applies to composite line post insulators consisting of a load-bearing, cylindrical, insulating solid core made up of fibres - usually glass - in a resin-based matrix, a housing (outside the insulating core) made of elastomer material (e.g. silicone or ethylene-propylene) and end fittings permanently attached to the insulating core. The object of this standard is to - define the terms used, - prescribe test methods, - prescribe acceptance or failure criteria This standard does not include requirements dealing with the choice of insulators for specific operating conditions.

29.080.30

Isolatsioonisüsteemid

Insulation systems

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 26772

Tähtaeg: 2003-06-01

Identne IEC 71-1:1993

ja identne EN 60071-1:1995

Insulation co-ordination - Part 1: Definitions, principles and rules

Applies to three phase alternating current systems having a highest voltage for equipment above 1 kV. Specifies the procedures for the selection of the standard withstand voltages for the phase to earth, phase to phase and longitudinal insulation of the equipment and the installations of these systems. Supersedes sections 2 and 3 of IEC 60071-3

prEVS 29457

Tähtaeg: 2003-06-01

Identne IEC 71-2:1996

ja identne EN 60071-2:1997

Insulation co-ordination - Part 2: Application guide

Gives guidance for the determination of the rated withstand voltages for ranges I and II of IEC 60071-1 and justifies the association of these rated values with the standardized highest voltages for equipment. It covers phase-to-phase, phase-to-earth and longitudinal insulation of three-phase systems with nominal voltages above 1kV

29.120.20

Liiteseadised ja klemmid

Connecting devices

UUED STANDARDID

EVS-EN 50250:2003

Hind 170,00

Identne EN 50250:2002

Conversion adaptors for industrial use

This standard applies to conversion adapters, referred to below as adapters, intended mainly for industrial use, comprising a housing of insulating material which incorporates an industrial 2P + earth, 16 A, 6 h 250 V - type plug part (Table 104 in standard EN 60309-2) and one or two socket outlets in accordance with the relevant national standards for socket outlets for household and similar use, with a rated current up to 16 A, intended mainly for industrial use either indoors or outdoors.

EVS-EN 60947-7-2:2003

Hind 130,00

Identne IEC 60947-7-2:2002

ja identne EN 60947-7-2:2002

Low-voltage switchgear and controlgear - Part 7: Ancillary equipment - Section 2:

Protective conductor terminal blocks for copper conductors

This section of IEC 947-7 applies to protective conductor terminal blocks with PE function up to 120 mm² (250 MCM) and to protective conductor terminal blocks with PEN function equal to and above 10 mm² (AWG 8) with screw-type or screwless-type clamping units, primarily intended for industrial applications.

29.120.50

Kaitsmed jm

liigvoolukaitseaparaadid

Fuses and other overcurrent protection devices

UUED STANDARDID

EVS-EN 60691:2003

Hind 146,00

Identne IEC 60691:2002

ja identne EN 60691:2003

Thermal-links - Requirements and application guide

Applies to thermal-links, intended for incorporation in electrical appliances, electronic equipment and component parts thereof, normally intended for use indoors, in order to protect them against excessive temperatures under abnormal conditions. May be applicable to thermal-links for use under other than indoor conditions, provided that the climatic and other circumstances in the immediate surroundings of such thermal-links are comparable with those in this standard.

EVS-EN 60099-4:2002/A2:2003

Hind 247,00

Identne IEC 60099-4:1991/A2:2001

ja identne EN 60099-4:1993/A2:2002

Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems

This International Standard applies to non-linear metal-oxide resistor type surge arresters without spark gaps designed to limit voltage surges on a.c. power circuits. This standard basically applies to all metal-oxide surge arresters; however, polymeric housed, GIS, liquid immersed and other special designs may require special consideration in design, test and application.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56076

Tähtaeg: 2003-06-01

Identne IEC 62019:1999/A1:2002

ja identne EN

62019:1999/A1:2003

Electrical accessories - Circuit-breakers and similar equipment for household use - Auxiliary contact units

This international standard applies to auxiliary contact units associated (or intended to be associated) with circuit-breakers for overcurrent protection and with residual current operated circuit-breakers with or without integral overcurrent protection for household and similar installations having a rated voltage not exceeding 440 V a.c. and 250 V d.c. and a rated current not exceeding 10 A

prEVS 56162

Tähtaeg: 2003-06-01

Identne IEC 94-7:1986/A1:1996

ja identne EN 60099-4:1993/A1:1998

Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems

This International Standard applies to non-linear metal-oxide resistor type surge arresters without spark gaps designed to limit voltage surges on a.c. power circuits. This standard basically applies to all metal-oxide surge arresters; however, polymeric housed, GIS, liquid immersed and other special designs may require special consideration in design, test and application.

29.120.60

Lülitus- ja

juhtimisaparaadid

Switchgear and controlgear

UUED STANDARDID

EVS-EN 60947-7-2:2003

Hind 130,00

Identne IEC 60947-7-2:2002

ja identne EN 60947-7-2:2002

Low-voltage switchgear and controlgear - Part 7: Ancillary equipment - Section 2:

Protective conductor terminal blocks for copper conductors

This section of IEC 947-7 applies to protective conductor terminal blocks with PE function up to 120 mm² (250 MCM) and to protective conductor terminal blocks with PEN function equal to and above 10 mm² (AWG 8) with screw-type or screwless-type clamping units, primarily intended for industrial applications.

EVS-EN 60947-4-

1:2002/A1:2003

Hind 139,00

Identne IEC 60947-4-1:2000/

A1:2002

ja identne EN 60947-4-1:2001/A1:2002

Low-voltage switchgear and controlgear - Part 4: Contactors and motor-starters - Section one: Electromechanical contactors and motor-starters

States the characteristics of contactors and starters and associated equipment, the conditions with which contactors or starters shall comply (operation and behaviour, dielectric properties, the degrees of protection provided by their enclosures, their construction), the tests intended for confirming that these conditions have been met, the information to be given with the equipment or in the manufacturer's literature.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56075

Tähtaeg: 2003-06-01

Identne EN 50123-1:2003

Railway applications Fixed installations D.C. switchgear Part 1: General

The EN 50123 series specifies requirements for d.c. switchgear and controlgear and is intended to be used in fixed electrical installations with nominal voltage not exceeding 3 000 V d.c., which supply electrical power to vehicles for public guided transport, i.e. railway vehicles, tramway vehicles, underground vehicles and trolley-buses

29.120.70

Reeled

Relays

UUED STANDARDID

EVS-EN 50216-2:2003/A1:2003

Hind 101,00

Identne EN 50216-2:2002/

A1:2002

Power transformer and reactor fittings - Part 2: Gas and oil actuated relay for liquid immersed transformers and reactors with conservator

This standard covers the gas and oil operated relay protection device for liquid immersed power transformers and reactors with expansion tank and intended for indoor or outdoor installation.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 28164

Tähtaeg: 2003-06-01

Identne IEC 61811-10:2002

ja identne EN 61811-10:2003

Electromechanical elementary relays of assessed quality Part 10: Sectional specification Relays for industrial application

Is based on the basic relay standard IEC 61810-1 as well as on the generic specification IEC 61811-1 and selects from IEC 61810-7 the appropriate test and measurement procedures to be used in detail specifications derived from this specification

prEVS 32684

Tähtaeg: 2003-06-01

Identne IEC 61811-11:2002

ja identne EN 61811-11:2003

Electromechanical elementary relays of assessed quality Part 11: Blank detail specification Relays for industrial application

Is based on the generic specification IEC 61811-1 and the sectional specification IEC 61811-10 and selects from IEC 61810-7 the appropriate test and measurement procedures to be used in detail specifications derived from this specification

29.120.99

Muud elektritarvikud

Other electrical accessories

UUED STANDARDID

EVS-EN 62094-1:2003

Hind 229,00

Identne IEC 62094-1:2002

ja identne EN 62094-1:2003

Indicator light units for household and similar fixed-electrical installations - Part 1: General requirements

This International Standard applies to stand-alone indicator light units intended to give a visible signal. They are designed for a.c. only with a rated voltage not exceeding 440 V and a rated power not exceeding 10 W, for household and similar fixed-electrical installations, either indoors or outdoors.

EVS-EN 60947-7-3:2003

Hind 190,00

Identne IEC 60947-7-3:2002

ja identne EN 60947-7-3:2002

Low-voltage switchgear and controlgear - Part 7-3: Ancillary equipment - Safety requirements for fuse terminal blocks

29.130.20

Madalpingelised lülitusseadmed ja nende juhtseadmed

Low voltage switchgear and controlgear

UUED STANDARDID

EVS-EN 60947-7-1:2003

Hind 155,00

Identne IEC 60947-7-1:2002

ja identne EN 60947-7-1:2002

Low-voltage switchgear and controlgear - Part 7: Ancillary equipment - Section one:

Terminal blocks for copper conductors

Specifies requirements for terminal blocks with screw-type or screwless type terminals, primarily intended for industry, having a cross-section between 0,2 mm² and 300 mm².

EVS-EN 60947-7-3:2003

Hind 190,00

Identne IEC 60947-7-3:2002

ja identne EN 60947-7-3:2002

Low-voltage switchgear and controlgear - Part 7-3: Ancillary equipment - Safety

requirements for fuse terminal blocks

29.140.10

Lambisoklid ja -pesad

Lamp caps and holders

UUED STANDARDID

EVS-EN 60061-1:2001/A30:2003

Hind 83,00

Identne IEC 60061-1:1969/

A30:2002

ja identne EN 60061-1:1993/

A30:2002

Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps

This consolidated version of IEC 60061-1 is based on the third edition (1969) and its supplements A(1970), B(1971), C(1972), D(1972), E(1972), F(1975), G(1977), H(1977), J(1980),

K(1983), L(1987), M(1989), N(1992), P(1994) Q(1994), R(1995), S(1996), T(1996), U(1996), V(1997), and amendments 21(1998), 22 (1999), 23 (1999) 24 (2000), 25 (2001) and 26 (2001). It bears the edition number 3.26.

EVS-EN 60061-2:2001/A27:2003

Hind 83,00

Identne IEC 60061-2:1969/

A27:2002

ja identne EN 60061-2:1993/

A27:2002

Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 2: Lampholders

This is a loose-leaf publication and supplements containing new and revised sheets are issued from time to time.

EVS-EN 60061-3:2001/A29:2003

Hind 146,00

Identne IEC 60061-3:1969/

A29:2002

ja identne EN 60061-3:1993/

A29:2002

Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 3: Gauges

This is a loose-leaf publication and supplements containing new and revised sheets are issued from time to time.

EVS-EN 60838-1:2001/A2:2003

Hind 66,00

Identne IEC 60838-

1:1997/A2:2002

ja identne EN 60838-

1:1998/A2:2002

Miscellaneous lampholders

Part 1: General requirements and tests

Applies to lampholders of miscellaneous types intended for building-in (e.g. used with general purpose lamps, projection lamps, floodlighting lamps and street-lighting lamps with caps and the methods of test to be used in determining the safe use of lamps in lampholders). Requirements for lampholders for tubular fluorescent lamps, Edison screw lampholders and bayonet lampholders are covered by separate standards.

29.140.20

Hõõglambid

Incandescent lamps

UUED STANDARDID

EVS-EN 60357:2003

Hind 283,00

Identne IEC 60357:2002

ja identne EN 60357:2003

Tungsten halogen lamps (non-vehicle)

Specifies dimensions and characteristics of tungsten halogen lamps, designed specifically for the following applications: projection, photographic (including studio), flood lighting, specialized airfield purpose and general purpose. This is a loose-leaf publication; supplements, containing new and revised sheets, are issued from time to time.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 55647

Tähtaeg: 2003-06-01

Identne IEC 60064:1993 +

A2:2002

ja identne EN 60064:1993 +

A2:2003

Tungsten filament lamps for domestic and similar general lighting purposes - Performance requirements

Applies to tungsten filament incandescent lamps for general lighting services (GLS) which comply with the safety requirements in IEC 60432-1

29.140.30

Luminofoorlambid.

Lahenduslambid

Fluorescent lamps. Discharge lamps

UUED STANDARDID

EVS-EN 50107-1:2003

Hind 146,00

Identne EN 50107-1:2002

Signs and luminous-discharge-tube installations operating from a no-load rated output voltage exceeding 1 kV but not exceeding 10 kV - Part 1: General requirements

This European Standard specifies the requirements and method of installation for signs and luminous-discharge-tube installations operating from a no-load rated output voltage exceeding 1000 V, but not exceeding 10 000 V, including the electrical components and wiring.

29.140.50

Valgustusüsteemid

Lighting installation systems

UUED STANDARDID

EVS-EN 61821:2003

Hind 163,00

Identne IEC 61821:2002

ja identne EN 61821:2003

Electrical installations for lighting and beaconing of aerodromes - Maintenance of aeronautical ground lighting constant current series circuits

This International Standard applies to the maintenance of AGL constant current series circuits. This International Standard covers constant current series circuits for AGL installed at aerodromes and heliports; concentrates on providing the safety requirements for the maintenance of an AGL constant current series circuit. It is recognised that AGL constant current series circuits of different design characteristics and parameters are in existence; is mainly concerned with safety to persons by specifying the rules and fundamental principles for the maintenance of AGL constant current series circuits; is not intended to apply to AGL primary series circuits supplied directly from a mains constant voltage source; is not intended to be used for public street lighting, roadway lighting or any other installation requiring the use of constant current series circuits.

29.140.99

Muud lampide ja valgustitega seotud standardid

Other standards related to lamps

UUED STANDARDID

EVS-EN 62094-1:2003

Hind 229,00

54

Identne IEC 62094-1:2002

ja identne EN 62094-1:2003

Indicator light units for household and similar fixed-electrical installations - Part 1: General requirements

This International Standard applies to stand-alone indicator light units intended to give a visible signal. They are designed for a.c. only with a rated voltage not exceeding 440 V and a rated power not exceeding 10 W, for household and similar fixed-electrical installations, either indoors or outdoors.

29.160

Pöörlevad masinad

Rotating machinery

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 25486

Tähtaeg: 2003-06-01

Identne IEC 34-15:1995

ja identne prEN 60034-15:1995

Rotating electrical machines - Part 15: Impulse voltage withstand levels of rotating a.c. machines with form-wound stator coils

Applies to rotating a.c. machines for rated voltages from 3 kV to 15 kV inclusive and incorporating form-wound stator coils. Specifies the rated phase-to-earth impulse voltage withstand levels and the test procedure and voltages to be applied to the main and interturn insulation of sample coils

29.160.20

Generaatorid

Generators

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 24890

Tähtaeg: 2003-06-01

Identne IEC 34-3:1988

ja identne EN 60034-3:1995

Rotating electrical machines - Part 3: Specific requirements for turbine-type synchronous machines

Applies to three-phase turbine-type machines, with rated outputs of 10 MVA and above, used as generators

29.180

Trafod. Reaktorid

Transformers. Reactors

UUED STANDARDID

EVS-EN 60044-3:2003

Hind 139,00

Identne IEC 60044-3:2002

ja identne EN 60044-3:2003

Instrument transformers - Part 3: Combined transformers

This part of IEC 60044 applies to newly manufactured combined transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15 Hz to 100 Hz. The requirements and tests of this standard, in addition to the requirements and tests of IEC 60044-1, IEC 60044-2 and IEC 60044-5 cover current, voltage and capacitor voltage transformers, that are necessary for combined instrument transformers. This standard shall be used in conjunction with IEC 60044-1 and IEC 60044-2.

EVS-EN 61558-2-9:2003

Hind 109,00

Identne IEC 61558-2-9:2002

ja identne EN 61558-2-9:2003

Safety of power transformers, power supply units and similar products - Part 2-9: Particular requirements for transformers for class III handlamps for tungsten filament lamps

This Part 2-9 of IEC 61558 applies to stationary or portable single-phase air-cooled (natural or forced) associated safety isolating transformers for class III handlamps for tungsten filament lamps, having a rated supply voltage not exceeding 1 000 V a.c., a rated frequency not exceeding 500 Hz and a rated output not exceeding 10 kVA. It has the status of a group safety publication in accordance with IEC Guide 104

EVS-EN 50216-2:2003/A1:2003

Hind 101,00

Identne EN 50216-2:2002/

A1:2002

Power transformer and reactor fittings - Part 2: Gas and oil actuated relay for liquid immersed transformers and reactors with conservator

This standard covers the gas and oil operated relay protection device for liquid immersed power transformers and reactors with expansion tank and intended for indoor or outdoor installation.

EVS-EN 50216-3:2003/A1:2003
Hind 92,00

Identne EN 50216-3:2002/A1:2002

Power transformer and reactor fittings - Part 3: Protective relay for hermetically sealed liquid-immersed transformers and reactors without gaseous cushion

EN 50216-3 applies to protective relays for hermetically liquid-immersed transformers, complying with the EN 60076 series, and reactors, complying with EN 60289, without gaseous cushions for indoor or outdoor installation.

EVS-EN 50216-5:2003/A1:2003
Hind 92,00

Identne EN 50216-5:2002/A1:2002

Power transformer and reactor fittings - Part 5: Liquid level, pressure devices and flow indicators

This specification for liquid level indicators, forms of part 5 of EN 50216 "Power transformer and reactor fittings". This specification does not purport to include all the necessary provisions of a contract. Except where otherwise specified or implied herein, liquid level indicators shall comply with the requirements of EN 50216-1 "General".

EVS-EN 60044-1:2002/A2:2003
Hind 49,00

Identne IEC 60044-1:1996/A2:2002

ja identne EN 60044-1:1999/A2:2003

Instrument transformers - Part 1: Current transformers

This part of IEC 44 applies to newly manufactured current transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15 Hz to 100 Hz. Although the requirements are applicable primarily to transformers with separate windings, they are also applicable, where appropriate to autotransformers.

EVS-EN 60044-2:2002/A2:2003
Hind 49,00

Identne IEC 60044-2:1996/A2:2002

ja identne EN 60044-2:1999/A2:2003

Instrument transformers - Part 2: Inductive voltage transformers

This part of IEC 44 applies to new inductive voltage transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15 Hz to 100 Hz. Although, this standard relates basically to transformers with separate windings, it is also applicable, where appropriate, to autotransformers. This standard does not apply to transformers for use in laboratories.

29.220.10

Primaarelemendid ja -akupatareid

Primary cells and batteries

KAVANDITE ARVAMUSKÜSITLUS

prEVS 23266

Tähtaeg: 2003-06-01

Identne IEC/ISO 86-3:1995

ja identne EN 60086-3:1996

Primary batteries - Part 3: Watch batteries

Specifies dimensions, designation, methods of tests and requirements for primary batteries for watches. In several cases, a menu of test methods is given. When presenting battery electrical characteristics and/or performance data, the manufacturer specifies the test method used

29.220.20

Happeakud ja -akupatareid

Acid secondary cells and batteries

UUED STANDARDID

EVS-EN 61056-1:2002

Hind 126,00

Identne IEC 61056-1:2002

ja identne EN 61056-1:2003

General purpose lead-acid batteries (valve-regulated types) - Part 1: General requirements, functional characteristics - Methods of test

Specifies general requirements and the main characteristics together with the corresponding test methods.

EVS-EN 61056-2:2003

Hind 101,00

Identne IEC 61056-2:2002

ja identne EN 61056-2:2003

Portable lead-acid cells and batteries (Valve-regulated types) - Part 2: Dimensions, terminals and marking

This part of IEC 1056 is applicable to lead-acid batteries of the valve-regulated type for cyclic and stand-by application with the rated capacity not exceeding 25 Ah. The cells of this kind of lead-acid batteries may either have flat-plate electrodes in prismatic containers or may have spirally wound electrodes in cylindrical containers. The electrolyte in these cells is immobilized either by absorption in a microporous material or in gelled form.

EVS-EN 60896-11:2003

Hind 139,00

Identne IEC 60896-11:2002

ja identne EN 60896-11:2003

Stationary lead-acid batteries - Part 11: Vented types - General requirements and methods of tests

This part of IEC 60896 is applicable to lead-acid cells and batteries which are designed for service in fixed locations (i.e. not habitually to be moved from place to place) and which are permanently connected to the load and to the d.c. power supply. Batteries operating in such applications are called "stationary batteries". Any type or construction of lead-acid battery may be used for stationary battery applications. This part 11 of the standard is applicable to vented types only. This first edition of IEC 60896-11 cancels and replaces IEC 60896-1 (first edition) published in 1987 and its amendments 1 (1988) and 2 (1990), and constitutes a technical revision.

29.220.30

Leelisakud ja -akupatareid

Alkaline secondary cells and batteries

UUED STANDARDID

EVS-EN 60622:2003

Hind 117,00

Identne IEC 60622:2002

ja identne EN 60622:2003

Secondary cells and batteries containing alkaline or other non-acid electrolytes - Sealed nickel-cadmium prismatic rechargeable single cells
Specifies tests and requirements for sealed nickel-cadmium prismatic rechargeable single cells.

29.240.10

Alajaamad.

Liigpingepiirikud

Substations. Surge arresters

UUED STANDARDID

EVS-EN 60099-4:2002/A2:2003

Hind 247,00

Identne IEC 60099-4:1991/

A2:2001

ja identne EN 60099-4:1993/

A2:2002

Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems

This International Standard applies to non-linear metal-oxide resistor type surge arresters without spark gaps designed to limit voltage surges on a.c. power circuits. This standard basically applies to all metal-oxide surge arresters; however, polymeric housed, GIS, liquid immersed and other special designs may require special consideration in design, test and application.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56162

Tähtaeg: 2003-06-01

Identne IEC 94-7:1986/A1:1996

ja identne EN 60099-4:1993/

A1:1998

Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems

This International Standard applies to non-linear metal-oxide resistor type surge arresters without spark gaps designed to limit voltage surges on a.c. power circuits. This standard basically applies to all metal-oxide surge arresters; however, polymeric housed, GIS, liquid immersed and other special designs may require special consideration in design, test and application.

29.240.20

Elektrijaotusliinid

Power transmission and distribution lines

UUED STANDARDID

EVS-EN 61477:2003

Hind 0,00

Identne IEC 61477:2001 +

A1:2002

ja identne EN 61477:2002 +

A1:2002

Live working - Minimum requirements for the utilization of tools, devices and equipment

Gives the minimum requirements relative to specification, manufacture, selection, application and maintenance of tools, devices and equipment for live working. It provides the type of information which is useful to skilled persons in order to make the use of tools, devices and equipment safer.

EVS-EN 61952:2003

Hind 179,00

Identne IEC 61952:2002

ja identne EN 61952:2003

Insulators for overhead lines - Composite line post insulators for a.c. with a nominal voltage greater than 1000 V

Applies to composite line post insulators consisting of a load-bearing, cylindrical, insulating solid core made up of fibres - usually glass - in a resin-based matrix, a housing (outside the insulating core) made of elastomer material (e.g. silicone or ethylene-propylene) and end fittings permanently attached to the insulating core. The object of this standard is to - define the terms used, - prescribe test methods, - prescribe acceptance or failure criteria This standard does not include requirements dealing with the choice of insulators for specific operating conditions.

29.260.20

Plahvatusohtlikus keskkonnas töötavad elektriseadmed

Electrical apparatus for explosive atmospheres

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 39951

Tähtaeg: 2003-06-01

Identne IEC 60079-2:2001

ja identne prEN 60079-2:2003

Electrical apparatus for explosive gas atmospheres - Part 2: Pressurized enclosures "p"

29.260.99

Muud eritingimustes töötavad elektriseadmed

Other electrical equipment for working in special conditions

UUED STANDARDID

EVS-EN 61477:2003

Hind 0,00

Identne IEC 61477:2001 +

A1:2002

ja identne EN 61477:2002 +

A1:2002

Live working - Minimum requirements for the utilization of tools, devices and equipment

Gives the minimum requirements relative to specification, manufacture, selection, application and maintenance of tools, devices and equipment for live working. It provides the type of information which is useful to skilled persons in order to make the use of tools, devices and equipment safer.

29.280

Elekterveoseadmed

Electric traction equipment

UUED STANDARDID

EVS-EN 50125-2:2003

Hind 109,00

Identne EN 50125-2:2001

Railway applications - Environmental conditions for equipment - Part 2: Fixed electrical installations

This standard defines influences from the surroundings on fixed electrical installations in open air, in covered areas, tunnels and within cubicles placed in above areas. Such influences include altitude, temperature & humidity, air movement, rain, snow, hail, ice, sand, solar radiation, lightning, pollution and vibrations. In this respect it gives general guidance in order to allow the fairness of bid assessments and the process of railway projects. The environmental conditions are considered for normal operation.

More severe conditions may be specified for the equipment to withstand, when not operating, without suffering damage. Microclimates surrounding components may need special requirements which are covered by product standards. In case of environmental conditions not covered by the standard the data to be adopted for a specific project shall be clearly stipulated when preparing a specification. This standard is not intended to apply to cranes, installations in underground mines, suspended cable cars and funicular railways. Biological influences, EMC, electromagnetic interference and nuclear radiation are excluded. Signalling and telecommunications systems are not considered in this standard. Equipment in tunnels will include the running tunnel and the platform together with fixed equipment essential to operate the railway. Not included will be escalators, lifts, fire protection, lighting in tunnels and on platforms, ticket machines, toilets and ventilation systems.

EVS-EN 50155:2002/A1:2003

Hind 57,00

Identne EN 50155:2001/A1:2002

Railway applications -

Electronic equipment used on rolling stock

This standard applies to all electronic equipment for control, regulation, protection, supply, etc., installed on rail vehicles and associated with: - either the accumulator battery of the vehicle; - or a low voltage power supply source with or without a direct connection to the contact system (transformer, potentiometer device, auxiliary supply); with the exception of electronic power circuits, which conform to EN 50207.

31.080.01

Pooljuhtseadised üldiselt

Semiconductor devices in general

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56144

Tähtaeg: 2003-06-01

Identne IEC 60749-5:2003

ja identne EN 60749-5:2003

Semiconductor devices - Mechanical and climatic test methods - Part 5: Steady-state temperature humidity bias life test

Provides a steady-state temperature and humidity bias life test for the purpose of evaluating the reliability of non-hermetic packaged solid-state devices in humid environments

31.190

Elektronikakomponentide koosted

Electronic component assemblies

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 32618

Tähtaeg: 2003-06-01

Identne IEC 61192-3:2002

ja identne EN 61192-3:2003

Workmanship requirements for soldered electronic assemblies Part 3: Through-hole mount assemblies

Specifies general requirements for workmanship in through-hole mount soldered assemblies on organic substrates, on printed boards, and on similar laminates attached to the surface(s) of inorganic substrates. It applies to assemblies that are totally through-hole or mixed assemblies that include surface-mounting or other related assembly technologies, for example, terminals, wires

prEVS 34865

Tähtaeg: 2003-06-01

Identne IEC 62090:2002

ja identne EN 62090:2003

Product package labels for electronic components using bar code and two-dimensional symbologies

Applies to labels on the packaging of electronic components for automatic handling. These labels use linear bar code and two-dimensional (2D) symbols. Bar code and 2D symbols markings are used, in general, for automatic identification and handling of components in electronics assembly lines. Intended applications include systems that automate the control of component packages during production, inventory and internal distribution

31.200

Integraallülitused. Mikroelektronika

Integrated circuits.

Microelectronics

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 34865

Tähtaeg: 2003-06-01

Identne IEC 62090:2002

ja identne EN 62090:2003

Product package labels for electronic components using bar code and two-dimensional symbologies

Applies to labels on the packaging of electronic components for automatic handling. These labels use linear bar code and two-dimensional (2D) symbols. Bar code and 2D symbols markings are used, in general, for automatic identification and handling of components in electronics assembly lines. Intended applications include systems that automate the control of component packages during production, inventory and internal distribution

31.220.10

Pistikseadised. Liitmikud

Plug-and-socket devices.

Connectors

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 32387

Tähtaeg: 2003-06-01

Identne IEC 61076-4-113:2002

ja identne EN 61076-4-113:2003

Connectors for electronic equipment - Printed board connectors - Part 4-113: Detail specification for two-part connectors having 5 rows with a grid of 2,54 mm for printed boards and backplanes in bus applications

Specifies for two-part connectors having 5 rows (160 contacts) with a grid of 2,54 mm for printed boards and backplanes in bus applications

31.260

**Optoelektronika.
Lasersedmed**

Optoelectronics. Laser
equipment

UUED STANDARDID

EVS-EN 61988-2-1:2003

Hind 109,00

Identne IEC 61988-2-1:2002

ja identne EN 61988-2-1:2002

Plasma display panels - Part 2-1:

Measuring methods - Optical

Determines the measuring
methods for characterizing the
performance of colour plasma
display modules in the following
areas: 4 % window luminance;
luminance uniformity; dark-room
contrast ratio; white chromaticity
and chromatic uniformity; colour
gamut in the centre box.

33.040

Sidesüsteemid

Telecommunication systems

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56140

Tähtaeg: 2003-06-01

Identne prEN 50406-2:2003

**End user multi-pair cables used
in high bit rate**

telecommunication networks

Part 2: Duct and buried cables

This European Standard defines
outdoor multi-pair/quad cables for
use in high bit rate

telecommunication networks with
their relative definitions and
requirements

33.040.35

Telefonivõrgud

Telephone networks

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 11088

Tähtaeg: 2003-06-01

Identne prEN 50406-1:2003

**End user multi-pair cables used
in high bit rate**

telecommunication networks

Part 1: Aerial cables

This European Standard defines
outdoor multi-pair/quad cables for
use in high bit rate

telecommunication networks with
their relative definitions and
requirements

33.040.50

**Liinid, ühendused,
vooluahelad**

Lines, connections and
circuits

UUED STANDARDID

EVS-EN 50173-1:2003

Hind 283,00

Identne EN 50173-1:2002

Information technology -

Generic cabling systems

This European Standard specifies
generic cabling for use within
commercial premises which may
comprise single or multiple
buildings on a campus. It covers
balanced copper cabling and
optical fibre cabling.

33.060.40

Kaabeljaotussüsteemid

Cabled distribution systems

UUED STANDARDID

EVS-EN 50083-9:2003

Hind 212,00

Identne EN 50083-9:2002

Cable networks for television

signals, sound signals and

interactive services - Part 9:

Interfaces for CATV/SMATV

headends and similar

professional equipment for

DVB/MPEG-2 transport

streams

This standard describes physical
interfaces for the interconnection
of signal processing devices for
professional CATV/SMATV
headend equipment or for similar
systems, such as in uplink stations.
Especially this document specifies
the transfer of MPEG-2 data
signals in the standardized
transport layer format between
devices of different signal
processing functions

EVS-EN 50098-1:2002/A1:2003

Hind 66,00

Identne EN 50098-1:1998/

A1:2002

**Customer premises cabling for
Information Technology -**

Part 1: ISDN basic access

This standard defines the
requirements for the design and
configuration of customer premises
cabling for the connection of basic
access ISDN equipment.

33.080

**Integraalteenustega
digitaalvõrk (ISDN)**

Integrated Services Digital
Network (ISDN)

UUED STANDARDID

EVS-EN 50098-1:2002/A1:2003

Hind 66,00

Identne EN 50098-1:1998/

A1:2002

**Customer premises cabling for
Information Technology -**

Part 1: ISDN basic access

This standard defines the
requirements for the design and
configuration of customer premises
cabling for the connection of basic
access ISDN equipment.

33.100.01

**Elektromagnetiline
ühilduvus üldiselt**

Electromagnetic
compatibility in general

UUED STANDARDID

EVS-EN 619:2003

Hind 247,00

Identne EN 619:2002

**Continuous handling
equipment and systems - Safety
and EMC requirements for
equipment for mechanical
handling of unit loads**

This European standard deals with
the technical requirements to
minimise the hazards listed in
clause 4 and annex B. These
hazards can arise during the
operation and maintenance of
continuous handling equipment
and systems when carried out in
accordance with the specifications
given by the manufacturer or his
authorised representative. This
standard deals with safety related
technical verification during
commissioning

33.100.10

Kiirgus

Emission

UUED STANDARDID

EVS-EN 55025:2003

Hind 229,00

Identne CISPR 25:2002

ja identne EN 55025:2003

Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement

This standard is designed to protect receivers from disturbances produced by conducted and radiated emissions arising in a vehicle. Test procedures and limits given are intended to provide provisional control of vehicle-radiated emissions, as well as component/module conducted/radiated emissions of long and short duration. The standard: - establishes a test method for measuring the electromagnetic emissions from the electrical system of a vehicle; - sets limits for the electromagnetic emissions from the electrical system of a vehicle; - establishes test methods for testing on-board components and modules independent from the vehicle; - sets limits for electromagnetic emissions from components to prevent objectionable disturbance to on-board receivers; - classifies automotive components by disturbance duration to establish a range of limits.

EVS-EN 55022:2001/A2:2003

Hind 75,00

Identne CISPR 22:1997/A2:2002
ja identne EN 55022:1998/A2:2003

Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

This standard applies to ITE as defined in 3.1. Procedures are given for the measurement of the levels of spurious signals generated by the ITE and limits are specified for the frequency range 9 kHz to 400 GHz for both Class A and Class B equipment. No measurements need to be performed at frequencies where no limits are specified.

33.100.20

Immuunsus

Immunity

UUED STANDARDID

EVS-EN 55025:2003

Hind 229,00

Identne CISPR 25:2002
ja identne EN 55025:2003

Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement

This standard is designed to protect receivers from disturbances produced by conducted and radiated emissions arising in a vehicle. Test procedures and limits given are intended to provide provisional control of vehicle-radiated emissions, as well as component/module conducted/radiated emissions of long and short duration. The standard: - establishes a test method for measuring the electromagnetic emissions from the electrical system of a vehicle; - sets limits for the electromagnetic emissions from the electrical system of a vehicle; - establishes test methods for testing on-board components and modules independent from the vehicle; - sets limits for electromagnetic emissions from components to prevent objectionable disturbance to on-board receivers; - classifies automotive components by disturbance duration to establish a range of limits.

EVS-EN 50370-2:2003

Hind 126,00

Identne EN 50370-2:2003

Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 2: Immunity

This standard deals with the electromagnetic immunity of machine tools designed exclusively for industrial and similar purposes that use electricity, the rated voltage of the machine tool not exceeding 1 000 V a.c. or 1 500 V d.c. between lines. Machine tools may incorporate motors, heating elements or their combination, may contain electric or electronic circuitry, and may be powered by the mains, or any other electrical power source. This immunity standard may also be used for assessment of equipment used in other environments, which require less stringent immunity levels (residential, light industry) than the industrial environment. This standard is not intended for the EMC conformity assessment of modules to be placed on the market separately. This standard is not intended for complying with

Machinery Directive 98/37/EC. Hence safety considerations are not covered by this standard. This standard does not cover fixed installations as defined in the Guide to the Application of Directive 89/336/EEC, published by the European Commission. This standard does not apply to apparatus intended to be used in locations where special electromagnetic conditions prevail, such as the presence of high electromagnetic fields (e.g. in the vicinity of a broadcast transmitting station) or where high pulses occur on the power network (e.g. in a power generator station). In these instances special mitigation measures may have to be employed. Immunity requirements in the frequency range 0 Hz to 400 GHz are covered. No measurements need to be performed at frequencies where no

33.160.01

Audio- ja videoseadmed ning -süsteemid üldiselt

Audio, video and audiovisual systems in general

UUED STANDARDID

EVS-EN 61883-6:2003

Hind 163,00

Identne IEC 61883-6:2002
ja identne EN 61883-6:2002

Consumer audio/video equipment - Digital interface - Part 6: Audio and music data transmission protocol

This document defines the audio and music data transmission protocol as an instance of a real-time data transmission protocol to be standardized under IEC 61883-1/FDIS in the future. The audio and music data transmission protocol can be applied to all modules or devices which have any kind of audio and/or music data processing, generation and conversion function blocks. This specification deals only with the transmission of audio and music data; the control, status and machine readable description of these modules or devices should be defined outside of this specification according to each application area.

33.160.20**Raadiovastuvõtjad**

Radio receivers

UUED STANDARDID**EVS-EN 55020:2003/A1:2003**

Hind 49,00

Identne CISPR 20:2002/A1:2002

ja identne EN 55020:2002/

A1:2003

Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement

This standard for immunity requirements applies to television broadcast receivers, sound broadcast receivers and associated equipment intended for use in the residential, commercial and light industrial environment. Immunity requirements are given in the frequency range 0 Hz to 400 GHz. Radio-frequency tests outside the specified frequency bands or concerning other phenomena than given in this standard are not required.

33.160.30**Helisalvestussüsteemid**

Audio systems

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 23604

Tähtaeg: 2003-06-01

Identne IEC 94-7:1986/A1:1996

ja identne EN 60094-7:1993/

A1:1996

Magnetic tape sound recording and reproducing systems.**Part 7: Cassette for commercial tape records and domestic use**

Applies to cassette recording and reproducing systems. Gives mechanical requirements and dimensions, including track allocation. Should be used in conjunction with IEC 60094-1.

Supersedes IEC 60094A

prEVS 26805

Tähtaeg: 2003-06-01

Identne IEC 94-2:1994

ja identne EN 60094-2:1995

Magnetic tape sound recording and reproducing systems -**Part 2: Calibration tapes**

Specifies the minimum requirements for calibration tapes for making adjustment and comparative assessments of the reproducing performance of both professional and domestic magnetic tape recording/reproducing equipment. Applies to both lubricated and non-lubricated tapes, recorded across specified parts or the full width of the tape

33.180.10**Optilised kiud ja kaablid**

Fibres and cables

UUED STANDARDID**EVS-EN 60793-1-1:2003**

Hind 117,00

Identne IEC 60793-1-1:2002

ja identne EN 60793-1-1:2003

Optical fibres - Part 1-1: Generic specification - General

Applies to primary coated or buffered optical fibres for use in telecommunication equipment and in devices employing similar techniques and defines categories of optical fibres as well as packaging.

33.180.20**Kiudoptika liitmikud**

Fibre optic interconnecting devices

UUED STANDARDID**EVS-EN 61300-2-5:2003**

Hind 83,00

Identne IEC 61300-2-5:2002

ja identne EN 61300-2-5:2002

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests - Torsion/twist

The purpose of this test is to determine the ability of the captivation or attachment of the cable to the device under test to withstand torsional loads while under tension as might be experienced during installation and normal service

33.200**Telemehaanika**

Telecontrol. Telemetry

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 36277

Tähtaeg: 2003-06-01

Identne EN 50239:1999

Railway applications - Radio remote control system of traction vehicle for freight traffic

This European Product Standard specifies the characteristics of operational and technical requirements for the overall system design as well as safety acceptance and approval, maintenance, modifications and extensions of the radio remote control system for the use in railway network in relationship with other European Standards

35.020**Infotehnoloogia****üldküsimumused**

Information technology (IT) in general

UUED STANDARDID**EVS 2382-30:2003**

Hind 380,00

Identne

ISO/IEC CD2 2382-30:1996

Infotehnoloogia. Sõnastik.**Osa 30: Raalnägemine**

Standard on mõeldud soodustama rahvusvahelist suhtlust infotehnoloogias. Ta esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Teistesse keeltesse tõlkimise hõlbustamiseks on määratlused kavandatud nii, et võimalikult välistada ühele keelele omaseid iseärasusi. Standard määratleb raalnägemisega seotud mõisteid.

EVS 2382-33:2003

Hind 306,00

Identne ISO/IEC CD1 2382-

33:1997+CD2:1998

Infotehnoloogia. Sõnastik.**Osa 33: Hüpermeedium ja multimeedium**

Standard on mõeldud soodustama rahvusvahelist suhtlust infotehnoloogias. Ta esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Teistesse keeltesse tõlkimise hõlbustamiseks on määratlused kavandatud nii, et võimalikult välistada ühele keelele omaseid iseärasusi. Standard määratleb hüpermeediumiga ning multimeediumiga seotud mõisteid.

EVS 2382-35:2003

Hind 306,00

Identne ISO/IEC CD2 2382-35:1998

Infotehnoloogia. Sõnastik.

Osa 35: Võrgundus

Standard on mõeldud soodustama rahvusvahelist suhtlust infotehnoloogias. Ta esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Teistesse keeltesse tõlkimise hõlbustamiseks on määratlused kavandatud nii, et võimalikult välistada ühele keelele omaseid iseärasusi. Standard määratleb võrgundusega seotud mõisteid.

EVS 2382-37:2003

Hind 238,00

Identne ISO/IEC WD2 2382-37:1998

Infotehnoloogia. Sõnastik.

Osa 37: Virtuaalreaalsus

Standard on mõeldud soodustama rahvusvahelist suhtlust infotehnoloogias. Ta esitab infotehnoloogia valdkonna jaoks oluliste valitud mõistete terminid ja määratlused kahes keeles ning määratleb artiklite vahelised seosed. Teistesse keeltesse tõlkimise hõlbustamiseks on määratlused kavandatud nii, et võimalikult välistada ühele keelele omaseid iseärasusi. Standard määratleb virtuaalreaalsusega seotud mõisteid.

EVS-EN 55022:2001/A2:2003

Hind 75,00

Identne CISPR 22:1997/A2:2002 ja identne EN 55022:1998/A2:2003

Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

This standard applies to ITE as defined in 3.1. Procedures are given for the measurement of the levels of spurious signals generated by the ITE and limits are specified for the frequency range 9 kHz to 400 GHz for both Class A and Class B equipment. No measurements need to be performed at frequencies where no limits are specified.

35.040

Märgistikud ja informatsiooni kodeerimine

Character sets and information coding

KAVANDITE ARVAMUSKÜSITLUS

prEVS 34865

Tähtaeg: 2003-06-01

Identne IEC 62090:2002

ja identne EN 62090:2003

Product package labels for electronic components using bar code and two-dimensional symbologies

Applies to labels on the packaging of electronic components for automatic handling. These labels use linear bar code and two-dimensional (2D) symbols. Bar code and 2D symbols markings are used, in general, for automatic identification and handling of components in electronics assembly lines. Intended applications include systems that automate the control of component packages during production, inventory and internal distribution

35.080

Tarkvara väljatöötamine ja süsteemidokumentatsioon

Software development and system documentation

UUED STANDARDID

EVS-ISO/IEC 17799:2003

Hind 436,00

Identne ISO/IEC 17799:2000

Infotehnoloogia. Infoturbe halduse menetskoodeks

Standard annab soovitusi infoturbe halduseks ja on kasutamiseks kõigile neile, kes vastutavad turbe algatamise, evituse või säilitamise eest oma organisatsioonis.

35.100.20

Kanalikiht

Data link layer

KAVANDITE ARVAMUSKÜSITLUS

prEVS 29503

Tähtaeg: 2003-06-01

Identne IEC 61158-3 - 65C/197/FDIS:1998

ja identne prEN 61158-3:2003

Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 3: Data Link Service definition

Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00

prEVS 29504

Tähtaeg: 2003-06-01

Identne IEC 61158-4 - 65C/198/FDIS:1998

ja identne prEN 61158-4:2003

Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 4: Data Link protocol specification

Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00

35.100.70

Rakenduskiht

Application layer

KAVANDITE ARVAMUSKÜSITLUS

prEVS 29505

Tähtaeg: 2003-06-01

Identne IEC 61158-5 - 65C/1997FDIS:1998

ja identne prEN 61158-5:2003

Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 5: Application Layer Service definition

Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and

IEC 61158-6 for a price of CHF 459,00
prEVS 29506
Tähtaeg: 2003-06-01
Identne IEC 61158-6 - 65C/200/FDIS:1998
ja identne prEN 61158-6:2003
Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 6: Application Layer protocol specification
Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00

35.110 Võrk

Networking

UUED STANDARDID

EVS-EN 50346:2003
Hind 163,00
Identne EN 50346:2002
Information technology - Cabling installation - Testing of installed cabling
This standard specifies procedures for testing the transmission performance of installed information technology cabling in premises. These procedures apply to both balanced copper and optical fibre cabling. These test procedures may be used for acceptance testing against agreed cabling performance limits, verification of specific application support, the investigation of faults. These test procedures are not suitable for components or cable assemblies such as patch cords and equipment cords

35.200 Liidestus- ja ühendusseadmed

Interface and interconnection equipment

UUED STANDARDID

EVS-EN 61883-6:2003
Hind 163,00
Identne IEC 61883-6:2002
ja identne EN 61883-6:2002

Consumer audio/video equipment - Digital interface - Part 6: Audio and music data transmission protocol
This document defines the audio and music data transmission protocol as an instance of a real-time data transmission protocol to be standardized under IEC 61883-1/FDIS in the future. The audio and music data transmission protocol can be applied to all modules or devices which have any kind of audio and/or music data processing, generation and conversion function blocks. This specification deals only with the transmission of audio and music data; the control, status and machine readable description of these modules or devices should be defined outside of this specification according to each application area.

35.240.50 IT rakendused tööstuses

IT applications in industry

KAVANDITE ARVAMUSKÜSITLUS

prEVS 29503
Tähtaeg: 2003-06-01
Identne IEC 61158-3 - 65C/197/FDIS:1998
ja identne prEN 61158-3:2003
Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 3: Data Link Service definition
Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00
prEVS 29504
Tähtaeg: 2003-06-01
Identne IEC 61158-4 - 65C/198/FDIS:1998
ja identne prEN 61158-4:2003
Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 4: Data Link protocol specification
Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00

prEVS 29505
Tähtaeg: 2003-06-01
Identne IEC 61158-5 - 65C/1997/FDIS:1998
ja identne prEN 61158-5:2003
Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 5: Application Layer Service definition
Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00
prEVS 29506
Tähtaeg: 2003-06-01
Identne IEC 61158-6 - 65C/200/FDIS:1998
ja identne prEN 61158-6:2003
Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 6: Application Layer protocol specification
Please note that this part is also available as part of a special CD-ROM containing IEC 61158-2 (with 2 amendments), IEC 61158-3, IEC 61158-4, IEC 61158-5 and IEC 61158-6 for a price of CHF 459,00

35.240.99 IT rakendused muudel aladel

IT applications in other fields

KAVANDITE ARVAMUSKÜSITLUS

prEVS 56101
Tähtaeg: 2003-06-01
Identne ISO/FDIS 16484-2:2003
ja identne prEN ISO 16484-2:2003
Building automation and control systems (BACS) - Part 2: Hardware
This part of this European Standard specifies the requirements for the hardware to perform the tasks within a BACS. This part of this European Standard provides the terms, definitions and abbreviations for the understanding of Part 2 and Part 3

45.020

**Raudteetehnika
üldküsimumed**

Railway engineering in
general

UUED STANDARDID

EVS-EN 13230-2:2003

Hind 130,00

Identne EN 13230-2:2002

**Railway applications - Track -
Concrete sleepers and bearers -
Part 2: Prestressed monoblock
sleepers**

This part of this European
Standard defines additional
technical criteria and control
procedures related to the design
and manufacture of prestressed
monobloc sleepers

EVS-EN 13230-3:2003

Hind 155,00

Identne EN 13230-3:2002

**Railway applications - Track -
Concrete sleepers and bearers -
Part 3: Twin-block reinforced
sleepers**

This part of this European
Standard defines technical criteria
and control procedures relating to
the design and manufacture of
twin-block reinforced concrete
sleepers

EVS-EN 13230-4:2003

Hind 117,00

Identne EN 13230-4:2002

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

This part of the European
Standard defines additional
technical criteria and control
procedures as well as specific
tolerance limits relating to the
design and manufacture of
prestressed bearers for switches
and crossings with a maximum
length of 5,5 m

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56075

Tähtaeg: 2003-06-01

Identne EN 50123-1:2003

**Railway applications Fixed
installations D.C. switchgear
Part 1: General**

The EN 50123 series specifies
requirements for d.c. switchgear
and controlgear and is intended to
be used in fixed electrical
installations with nominal voltage
not exceeding 3 000 V d.c., which
supply electrical power to vehicles
for public guided transport, i.e.
railway vehicles, tramway vehicles,
underground vehicles and trolley-
buses

45.060

Raudtee veerem

Railway rolling stock

UUED STANDARDID

EVS-EN 61377-3:2003

Hind 155,00

Identne IEC 61377-3:2002

ja identne EN 61377-3:2002

**Railway applications - Rolling
stock - Part 3: Combined testing
of alternating current motors,
fed by an indirect convertor,
and their control system**

Specifies a) the performance
characteristics of electric drives
consisting of a convertor,
alternating current motors, and the
related control system; b) methods
of verifying these performance
characteristics by tests

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56143

Tähtaeg: 2003-06-01

Identne IEC 62279:2002

ja identne prEN 62279:2003

**Railway applications -
Communications, signalling
and processing systems -
Software for railway control and
protection systems**

Specifies procedures and technical
requirements for the development
of programmable electronic
systems for use in railway control
and protection applications. Aimed
at use in any area where there are
safety implications. These may
range from the very critical, such
as safety signalling to the non-
critical, such as management
information systems. These
systems may be implemented using
dedicated microprocessors,
programmable logic controllers,
multiprocessor distributed systems,
larger scale central processor
systems or other architectures

45.060.10

Vedurid

Tractive stock

UUED STANDARDID

EVS-EN 50155:2002/A1:2003

Hind 57,00

Identne EN 50155:2001/A1:2002

**Railway applications -
Electronic equipment used on
rolling stock**

This standard applies to all
electronic equipment for control,
regulation, protection, supply, etc.,
installed on rail vehicles and
associated with: - either the
accumulator battery of the vehicle;
- or a low voltage power supply
source with or without a direct
connection to the contact system
(transformer, potentiometer
device, auxiliary supply); with the
exception of electronic power
circuits, which conform to EN
50207.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 36277

Tähtaeg: 2003-06-01

Identne EN 50239:1999

**Railway applications - Radio
remote control system of
traction vehicle for freight traffic**

This European Product Standard
specifies the characteristics of
operational and technical
requirements for the overall system
design as well as safety acceptance
and approval, maintenance,
modifications and extensions of
the radio remote control system
for the use in railway network in
relationship with other European
Standards

47.020.10

Laevakered ja nende osad

Hulls and their structure
elements

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 23490

Tähtaeg: 2003-06-01

Identne EN 1502:1995

**Inland navigation vessels -
Boarding ladders**

This standard specifies the type,
dimensions, strength requirements
and test conditions which shall be
complied with for reasons of safety

47.020.30
Torustikud

Piping systems

UUED STANDARDID**EVS-EN ISO 15540:2003**

Hind 66,00

Identne ISO 15540:1999

ja identne EN ISO 15540:2001

**Ships and marine technology -
Fire resistance of hose
assemblies - Test methods**

This standard specifies a test procedure for determining the fire resistance of hose assemblies with the nominal diameters of at least 100 mm. It serves for proving whether after the period of fire effect on the test bench specified in ISO 15541, hose assemblies continue to be tight, even when subjected to proof pressure.

EVS-EN ISO 15541:2003

Hind 75,00

Identne ISO 15541:1999

ja identne EN ISO 15541:2001

**Ships and marine technology -
Fire resistance of hose
assemblies - Requirements for
the test bench**

This standard specifies requirements on a test bench to determine the fire resistance of hose assemblies, in particular by tests according to ISO 15540, up to at least 100 mm nominal diameter. During the exposure to flames, there are possible working pressure up to 10 bar.

47.080**Väikelaevad**

Small craft

UUED STANDARDID**EVS-EN ISO 8666:2003**

Hind 126,00

Identne ISO 8666:2002

ja identne EN ISO 8666:2002

Small craft - Principal data

This International Standard establishes uniformity of definitions of main dimensions and related data, and of mass specifications and loading conditions. It applies to small craft having a length of the hull of up to 24 m

EVS-EN ISO 14509:2003

Hind 109,00

Identne ISO 14509:2000

ja identne EN ISO 14509:2000

**Small craft - Measurement of
airborne sound emitted by
powered recreational craft****KAVANDITE****ARVAMUSKÜSITLUS**

prEVS 28411

Tähtaeg: 2003-06-01

Identne ISO 9094-1:2003

ja identne EN ISO 9094-1:2003

**Small craft - Fire protection -
Part 1: Craft with a hull length
of up to and including 15 m**

This part of ISO 9094 defines procedure to achieve a partial degree of fire protection, specifies portable fire-fighting equipment and sets requirements for fixed fire-fighting systems

prEVS 34868

Tähtaeg: 2003-06-01

Identne ISO 15083:2003

ja identne EN ISO 15083:2003

**Small craft - Bilge-pumping
systems**

This International Standard specifies requirements for pumping or alternative means designed to remove normal accumulations of bilge water for small craft with a hull length, Lh, up to 24 m according to ISO 8666

49.030.20**Poldid, kruvid, tikkpoldid**

Bolts, screws, studs

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 10333

Tähtaeg: 2003-06-01

Identne EN 3724:2003

**Aerospace series - Bolts, double
hexagon head, relieved shank,
long thread, in titanium alloy
TI-P64001, MoS2 coated -
Classification: 1 100 MPa (at
ambient temperature)**

This standard specifies the characteristics of double hexagon headed bolts with relieved shank and long thread, in titanium alloy TI-P64001, MoS2 coated, for aerospace applications.

Classification: 1 100 MPa 1)

prEVS 15148

Tähtaeg: 2003-06-01

Identne EN 3907:2003

**Aerospace series - Bolts, double
hexagon head, normal shank,
long thread, in titanium alloy
TI-P64001, MoS2 coated -
Classification: 1 100 MPa (at
ambient temperature)/350 °C**

This standard specifies the characteristics of double hexagon headed bolts with normal shank and long thread in titanium alloy TI-P64001, MoS2 coated for aerospace applications

49.030.30**Mutrid**

Nuts

UUED STANDARDID**EVS-EN 4015:2003**

Hind 101,00

Identne EN 4015:2003

**Aerospace series - Inserts,
thickwall, self-locking -
Installation and removal
procedure**

This standard specifies the conditions of installation and removal procedure (hole serration profile, tools, swaging) of self-locking thickwall inserts defined by EN standards, for aerospace applications

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 56068

Tähtaeg: 2003-06-01

Identne EN 4124:2003

**Aerospace series - Shank nuts,
self-locking, in heat resisting
nickel base alloy NI-PH-1302
(Waspaloy), silver plated on
thread, for 60 swage -****Classification: 1210 MPa (at
ambient temperature)/730 °C**

This standard specifies the characteristics of self-locking shank nuts in NI-PH-1302, silver plated on thread, for use in 60° cone holes, for aerospace applications

49.030.50**Seibid, lukustuselemendid**

**Washers and other locking
elements**

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 13347

Tähtaeg: 2003-06-01

Identne EN 4585:2003

**Aerospace series - Clips, spring
tension - Technical
specification**

This standard specifies the characteristics, qualification and acceptance requirements for spring tension clips for the support of electrical harnesses, in alloy steel for aerospace applications. It is applicable whenever referenced

49.035

Õhusõidukite ja kosmosetehnika komponendid

Components for aerospace construction

UUED STANDARDID

EVS-EN 2851:2003

Hind 75,00

Identne EN 2851:1992

Lennunduse ja kosmonautika seeria - Detailide ja koostude (välja arvatud mootorite) märgistamine - Näitamine joonistel

Standard määratleb joonistel, välja arvatud mootori joonised, detailide ja koostude märgistusjuhiste näitamise viisi lennunduse ja kosmonautika rakendustele.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 13215

Tähtaeg: 2003-06-01

Identne EN 2014:1984

Bearings-airframe rolling, rigid, single row ball bearings in corrosion resisting steel, diameter series 0 and 2, dimensions and loads; Aerospace series; inactive for new design, see EN 3286

This standard specifies the characteristics, of rigid single row ball bearings of diameter series 0 and 2 designed to withstand only slow rotations and oscillations under load

prEVS 13256

Tähtaeg: 2003-06-01

Identne EN 2020:1984

Bearings-airframe rolling, single row, self aligning roller bearings in corrosion resisting steel, diameter series 3 and 4, dimensions and loads; Aerospace series; inactive for new design, see EN 3292

This standard specifies the characteristics, of rigid single row ball bearings of diameter series 3 and 4 designed to withstand only slow rotations and oscillations under load

prEVS 13286

Tähtaeg: 2003-06-01

Identne EN 2009:1984

Bearings-airframe rolling, rigid, single row ball bearings in steel, diameter series 8 and 9, dimensions and loads;

Aerospace series; inactive for new design, see EN 3281

This standard specifies the characteristics, of rigid single row ball bearings of diameter series 8 and 9 designed to withstand only slow rotations and oscillations under load

prEVS 21770

Tähtaeg: 2003-06-01

Identne EN 2011:1984

Bearings-airframe rolling, rigid, single row ball bearings in corrosion resisting steel, diameter series 8 and 9, dimensions and loads;

Aerospace series; inactive for new design, see EN 3283

This standard specifies the characteristics, of rigid single row ball bearings of diameter series 8 and 9 designed to withstand only slow rotations and oscillations under load

prEVS 37533

Tähtaeg: 2003-06-01

Identne EN 2015:1984

Bearings-airframe rolling, double row, self aligning ball bearings in steel, diameter series 2, dimensions and loads; Aerospace series; inactive for new design, see EN 3287

The standard specifies the characteristics, of double row self aligning ball bearing of diameter series 2 designed to withstand only slow rotations and oscillations under load

prEVS 37996

Tähtaeg: 2003-06-01

Identne EN 2017:1984

Bearings-airframe rolling, double row, self aligning ball bearings, in corrosion resisting steel, diameter series 2, dimensions and loads;

Aerospace series; inactive for new design, see EN 3289

This standard specifies the characteristics, of double row self aligning ball bearings of diameter series 2 designed to withstand only slow rotations and oscillations under load

53.020.99

Muud tõsteseadmed

Other lifting equipment

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56079

Tähtaeg: 2003-06-01

Identne EN 1495:1997/prA1:2003

Tõsteplatvormid. Mastil liikuvad tööplatvormid

This standard specifies the special safety requirements for Mast Climbing Work Platforms (MCWP) which are temporarily installed and are manually or power operated and which are designed to be used by one or more persons from which to carry out work. The vertical moving components (work platform) are also used to move those same persons and their equipment and materials to and from a single boarding point. These restrictions differentiate MCWP from Builder's hoists. The standard can also be used for permanently installed MCWP.

53.040.10

Konveierid

Conveyors

UUED STANDARDID

EVS-EN 619:2003

Hind 247,00

Identne EN 619:2002

Continuous handling equipment and systems - Safety and EMC requirements for equipment for mechanical handling of unit loads

This European standard deals with the technical requirements to minimise the hazards listed in clause 4 and annex B. These hazards can arise during the operation and maintenance of continuous handling equipment and systems when carried out in accordance with the specifications given by the manufacturer or his authorised representative. This standard deals with safety related technical verification during commissioning

55.020

Pakenduse üldküsimumused

Packaging and distribution
of goods in general

UUED STANDARDID

EVS-EN 14047:2003

Hind 57,00

Identne EN 14047:2002

Packaging - Determination of the ultimate aerobic biodegradability of packaging materials in an aqueous medium - Method by analysis of evolved carbon dioxide

This standard specifies a method to evaluate the ultimate biodegradability of packaging materials and its constituents by measurement of CO₂ evolution

EVS-EN 14048:2003

Hind 57,00

Identne EN 14048:2002

Packaging - Determination of the ultimate aerobic biodegradability of packaging materials in an aqueous medium - Method by measuring the oxygen demand in a closed respirometer

This standard specifies a method to evaluate the ultimate biodegradability of packaging materials and its constituents by measurement of O₂-consumption

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 55510

Tähtaeg: 2003-06-01

Identne EN 13432:2000

Pakend. Kompostimise ja biolagunemise teel

taaskasutatavale pakendile esitatavad nõuded. Pakendi lõplikult kõlblikuks

tunnistamisel kasutatava testimise kord ja

hindamiskriteeriumid

Standard piiritleb nõuded ja menetlused pakendi ja pakendimaterjalide kompostitavuse ja anaeroobseks töötlemiseks sobivuse määramiseks, lähtudes pakendi neljast omadusest: biolagunevus; lõhustumine bioloogilisel töötlemisel; mõju bioloogilistele töötlusprotsessidele ning mõju tekkiva komposti kvaliteedile.

prEVS 55512

Tähtaeg: 2003-06-01

Identne EN 13193:2000

Pakend. Pakend ja keskkond. Terminoloogia

Standard määratleb pakendi- ja keskkonna valdkondades kasutatavad mõisted.

prEVS 55513

Tähtaeg: 2003-06-01

Identne EN 13427:2000

Pakend. Pakendi- ja pakendijäätmealaste Euroopa standardite kasutamise nõuded
Standard piiritleb nõuded ja korra, millest lähtudes võib pakendeid või pakendatud tooteid turundav isik või organisatsioon (tarnija) kokku sobitada viite (mandaadi alusel koostatud) pakendistandardi ja ühe (kaheosalise) CEN aruande rakendamist.

prEVS 55515

Tähtaeg: 2003-06-01

Identne EN 13428:2000

Pakend. Pakendi tootmisele ja koostisele rakendatavad spetsiifilised nõuded. Jäätmetekke ennetamine tootmisel.

Ütandard määratleb protseduureeglid pakendi hindamiseks, et tagada vähim materjali mass ja/või maht, mis on vajalik, et säiliks pakendi: funktsionaalsus kogu tarne- ja kasutusahela ulatuses; ohutus ja hügieenilisus nii toote kui ka kasutaja/tarbija seisukohast; pakendatud toote vastuvõetavus kasutajale/tarbijale. Tekkekohas vähendamise aluseks ei ole ühe materjali teisega asendamine.

55.040

Pakkematerjalid

Packaging materials and
accessories

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 14635

Tähtaeg: 2003-06-01

Identne prEN 14635:2003

Glass packaging - 26 H 126 crown finish - Dimensions

This International Standard specifies the dimensions of the 26 mm shallow crown finish for glass bottles containing beverages. The shallow crown finish is designed to use a metal crown closure (see CE.T.I.E. EC 1.02)

prEVS 56121

Tähtaeg: 2003-06-01

Identne prEN 14634:2003

Glass packaging - 26 H 180 crown finish - Dimensions

This International Standard specifies the dimensions of the 26 mm tall crown finish for glass bottles containing beverages. The tall crown finish is designed to use a metal crown closure (see CE.T.I.E. EC 1.02)

55.180.20

Üldotstarbelised kaubaalused

General purpose pallets

UUED STANDARDID

EVS-EN ISO 12777-3:2003

Hind 92,00

Identne ISO 12777-3:2002

ja identne EN ISO 12777-3:2002

Methods of test for pallet joints - Part 3: Determination of strength of pallet joints

This part of ISO 12777 specifies methods of determining the resistance of pallet joints primary to static load by determining the strength and stiffness of nailed or stapled joints, wood to wood, wood to wood-based materials, wood to plastics or plastics to plastics

55.180.40

Täielikud pakkimis- ja transpordiüksused

Complete, filled transport
packages

UUED STANDARDID

EVS-EN ISO 2875:2003

Hind 66,00

Identne ISO 2875:2000

ja identne EN ISO 2875:2002

Packaging - Complete, filled transport packages and unit loads - Water-spray test

This International Standard specifies a method for testing the resistance of a complete, filled transport package or a unit load to water spray or the protection it gives to its contents from water spray

59.040

Tekstiilitööstuse abimaterjalid

Textile auxiliary materials

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 20563

Tähtaeg: 2003-06-01
Identne EN 1167:1996
**Suled ja udusuled -
Katsemeetod sulgede ja/või
udusulgedega täidetud tepitud
te kkkide mõõtmete
määramiseks**

This Standard describes a method
for the determination of all sizes of
ready-made quilts filled with
feather and/or down

59.060

Tekstiilkiud

Textile fibres

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 4753

Tähtaeg: 2003-06-01

Identne ISO/DIS 1346:2003

ja identne prEN ISO 1346:2003

**Fibre ropes - Polypropylene
split film, monofilament and
multifilament (PP2) and
Polypropylene high tenacity
multifilament (PP3) -3, 4 and 8
strand ropes**

This European Standard specifies
requirements for 3-strand hawser-
laid and 4-strand shroud laid ropes
and 8-strand braided ropes for
general service made of
polypropylene and gives rules for
their designation

prEVS 56120

Tähtaeg: 2003-06-01

Identne ISO/DIS 1969:2003

ja identne prEN ISO 1969:2003

**Fibre ropes - Polyethylene - 3
and 4 strand ropes**

This European Standard specifies
requirements for 3-strand hawser-
laid and 4-strand shroud laid ropes
for general service (excluding
fittings) made of polyethylene and
gives rules for their designation

59.080

Tekstiilitööstuse tooted

Products of the textile
industry

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 56095

Tähtaeg: 2003-06-01

Identne prEN 14621:2003

**Textiles - Multifilament yarns -
Methods of test**

This European Standard describes
test methods for quality control of
textured and non textured
multifilament synthetic yarns. It
includes the following test
methods: -Determination of the
crimp contraction Textured Multi-
filament yarn with linear density up
to 500 dtex. - Determination of the
hot air shrinkage - For non
textured and textured multi-
filament yarns. - Determination of
the boiling water shrinkage - For
non textured and textured multi-
filament yarns

59.080.01

Tekstiil üldiselt

Textiles in general

UUED STANDARDID

EVS-EN ISO 15487:2003

Hind 83,00

Identne ISO 15487:1999

ja identne EN ISO 15487:2001

**Textiles - Method for assessing
appearance of apparel and other
textile end products after
domestic washing and drying**

This standard specifies a method
of test for evaluating the
smoothness appearance of flat
fabric and seams, and the retention
of presses-in creases in garments
and other textile products after one
or several domestic washing and
drying treatments.

EVS-EN ISO 105-C08:2003

Hind 75,00

Identne ISO 105-C08:2002

ja identne EN ISO 105-C08:2002

**Textiles - Tests for colour
fastness - Part C08: colour
fastness to domestic and
commercial laundering using a
non-phosphate reference
detergent incorporating a low
temperature bleach activator**

This part of ISO 105 specifies
methods intended for determining
the resistance of the colour of
textiles of all kinds and in all
forms to domestic or commercial
laundering procedures used for
normal household articles using a
reference detergent incorporating a
low temperature bleach activator

EVS-EN ISO 105-X16:2003

Hind 57,00

Identne ISO 105-X16:2001

ja identne EN ISO 105-X16:2002

**Textiles - Tests for colour
fastness - Part X16: Color
fastness to rubbing - Small
areas**

This part of ISO 105 specifies a
method for determining the
resistance of the colour of textiles
to rubbing off and staining other
materials where the singling out of
areas smaller than possible to test
with the apparatus described in
ISO 105-X12 is required

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 39182

Tähtaeg: 2003-06-01

Identne ISO 105-C09:2001

ja identne EN ISO 105-C09:2003

**Textiles - Tests for colour
fastness - Part C09: Colour
fastness to domestic and
commercial laundering -
Oxidative bleach response
using a non-phosphate
reference detergent
incorporating a low temperature
bleach activator**

This part of ISO 105 specifies a
method for determining the
consumer relevant change of
textiles, of all kinds, and in all
forms, to domestic/commercial
laundering procedures in which a
bleach activator is used

59.080.30

Kangasmaterjalid

Textile fabrics

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 56131

Tähtaeg: 2003-06-01

Identne ISO 9073-6:2000

ja identne EN ISO 9073-6:2003

**Textiles - Test methods for
nonwovens - Part 6: Absorption**
This part of ISO 9073 describes
methods for the evaluation of
some aspects of the behavior of
nonwoven fabrics in the presence
of liquids

59.080.40

**Pealistatud
kangasmaterjalid**

Coated fabrics

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 56138

Tähtaeg: 2003-06-01

Identne EN 12280-3:2002

Rubber- or plastics-coated fabrics - Accelerated ageing tests - Part 3: Environmental ageing

This European Standard describes a test procedure to assess the effect of humidity in combination with relatively high temperatures on the relevant physical properties of coated fabrics

59.080.50

Köied

Ropes

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 4750

Tähtaeg: 2003-06-01

Identne ISO/DIS 1440:2003

ja identne prEN ISO 1140:2003

Fibre ropes - Polyamide - 3, 4 and 8 strand ropes

This European Standard specifies requirements for 3-strand hawser-laid and 4-strand shroud laid ropes and 8-strand braided ropes for general service made of polyamide and gives rules for their designation

prEVS 4751

Tähtaeg: 2003-06-01

Identne ISO/DIS 1141:2003

ja identne prEN ISO 1141:2003

Fibre ropes - Polyester - 3, 4 and 8 strand ropes

This European Standard specifies requirements for 3-strand hawser-laid and 4-strand shroud laid ropes and 8-strand braided ropes for general service made of polyester and gives rules for their designation

prEVS 4752

Tähtaeg: 2003-06-01

Identne ISO/DIS 1181:2003

ja identne prEN ISO 1181:2003

Fibre ropes - Manila and sisal - 3, 4 and 8 strands

This European Standard specifies requirements for 3-strand hawser-laid and 4-strand shroud laid ropes and 8-strand braided ropes for general service made of manila and sisal and gives rules for their designation

59.080.60

Tekstiilpõrandakatted

Textile floor coverings

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 56157

Tähtaeg: 2003-06-01

Identne EN 1471:1996/prA1:2003

Tekstiilpõrandakatted.

Välisilme muutuse hindamine

This Standard describes procedures for assessing the changes in appearance of textile floor coverings caused by any testing device. This standard reflects the existing state of the art

59.100.10

Klaaskiust materjalid

Textile glass materials

UUED STANDARDID

EVS-EN 13360:2003

Hind 75,00

Identne EN 13360:2002

Reinforcements - Specification for textile glass rovings - Part 2: Methods of test and general requirements

This part of this European Standard defines test methods to be used to determine designated and specified properties given in Part 1 and 3, respectively. It defines general requirements applicable to the specification of all types of glass fibre rovings falling within the scope of this specification as defined in Part 1 of the standard

EVS-EN 14020-1:2003

Hind 75,00

Identne EN 14020-1:2002

Reinforcements - Specification for textile glass rovings - Part 1: Designation

This part of this European Standard establishes a method of designation for roving made from continuous filament textile glass strands, which may be used as the basis for specifications

59.140.30

Parknahk ja karusnahk

Leather and furs

UUED STANDARDID

EVS-EN 13540:2003

Hind 83,00

Identne EN 13540:2002

Leather - Physical and mechanical tests -

Determination of heat resistance of patent leather

This European Standard specifies two methods for determining the heat resistance of patent leather. Method A makes use of a modified lastometer whilst Method B uses the Zwick apparatus. Both methods are applicable to patent leathers for all end uses

61.060

Jalatsid

Footwear

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 56122

Tähtaeg: 2003-06-01

Identne ISO/DIS 19952:2003

ja identne prEN ISO 19952:2003

Footwear - Vocabulary

This International Standard defines terms used in the footwear industry, in English, French, German, Spanish and Italian. The terms and their definitions are listed alphabetically in English

65.060.35

Niisutusseadmed

Irrigation and drainage equipment

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 13756

Tähtaeg: 2003-05-01

Identne ISO 8224-1:2003

ja identne EN ISO 8224-1:2003

Traveller irrigation machines - Part 1: Operational characteristics and laboratory and field test methods

This part of ISO 8224 specifies the operational characteristics of, and laboratory and field test methods for, traveller irrigation machines

67.100.20

Või

Butter

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 13717

Tähtaeg: 2003-06-01

Identne ISO 3727-3:2003

ja identne EN ISO 3727-3:2003

Butter - Determination of moisture, non-fat solids and fat contents - Part 3: Calculation of fat content

This part of ISO 3727 IDF 80 specifies a method for the calculation of the fat content of butter

67.250

Toiduga kokkupuutuvad materjalid ja esemed

Materials and articles in contact with foodstuffs

UUED STANDARDID

CEN/TS 14234:2002

Hind 146,00

Identne CEN/TS 14234:2002

Materials and articles in contact with foodstuffs - Polymeric coatings on paper and board - Guide to the selection of conditions and test methods for overall migration

This Technical Specification specifies test methods for "alternative tests" and "substitute tests" performed with volatile test media, iso-octane and volume fraction of 95% aqueous ethanol, for the determination of overall migration from polymeric coatings on paper and board intended to come into contact with fatty foodstuffs.

CEN/TS 14235:2002

Hind 212,00

Identne CEN/TS 14235:2002

Materials and articles in contact with foodstuffs - Polymeric coatings on metal substrates - Guide to the selection of conditions and test methods for overall migration

This Technical Specification gives guidelines for the selection of the appropriate conditions and test methods for the determination of overall migration into food simulants and test media from polymeric coatings on metal substrates which are intended to come into contact with foodstuffs and test method for overall migration into aqueous simulants by article filling from polymeric coatings on food and beverage cans and non-stick coatings.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56096

Tähtaeg: 2003-06-01

Identne prEN 14627:2003

Foodstuffs - Determination of trace elements - Determination of total arsenic and selenium by hydride generation atomic absorption spectrometry (HGAAS) after pressure digestion

This Draft European Standard specifies two methods: one method for the determination of total arsenic and another method for the determination of selenium in foodstuffs by hydride generation atomic absorption spectrometry (HGAAS) after pressure digestion

67.260

Toiduainetööstuse ettevõtted ja seadmed

Plants and equipment for the food industry

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 29179

Tähtaeg: 2003-06-01

Identne EN 13951:2003

Liquid pumps - Safety requirements - Agrifoodstuffs equipment ; Design rules to ensure hygiene in use

This European Standard is concerned with the special technical safety requirements for liquid pumps and pump units operating with agrifoodstuffs. It augments EN 809 and contains a list of the additional significant hazards which can arise from the pump and pump units used with substances intended for human and domestic animal consumption

prEVS 56087

Tähtaeg: 2003-06-01

Identne prEN 1672-2:2003

Toiduainete töötlemiseadmed.

Põhimõisted. Osa 2:

Hügieeninõuded

This European Standard specifies common hygiene requirements for machinery used in preparing and processing food for human and, where relevant, animal consumption to eliminate or minimise the risk of infection, illness, contagion or injury arising from this food. It identifies the hazards which are relevant to the use of such food processing machinery and describes design methods and information for use for the elimination or reduction of these risks

71.100.30

Lõhkeained. Pürotehnika

Explosives. Pyrotechnics

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56125

Tähtaeg: 2003-06-01

Identne prEN 13631-1:2003

Explosives for civil uses - High explosives - Part 1: -

Requirements

This European Standard specifies the requirements for high explosives for civil uses when subjected to test methods defined in the standards referred herein

prEVS 56126

Tähtaeg: 2003-06-01

Identne prEN 13631-12:2003

Explosives for civil uses - High explosives - Part 12:

Specification of boosters with different initiating capability

This European Standard defines a series of boosters, which shall be used for testing purposes

71.100.40

Pindaktiivsed ained

Surface active agents

UUED STANDARDID

EVS-EN 13717:2003

Hind 101,00

Identne EN 13717:2002

Surface active agents - Determination of primary, secondary and tertiary amino nitrogen - Potentiometric titration

This European Standard specifies the methods for the determination of primary, secondary and tertiary amino nitrogen content in surface active agents by potentiometric titration

EVS-EN ISO 4320:2003

Hind 57,00

Identne ISO 4320:1977 +

Erratum:1980

ja identne EN ISO 4320:1997

Mitteioonsete pindaktiivsed ained - Hägustumispunkti indeksi määramine - Mahtanalüüsi meetod

Käesolev Euroopa ja rahvusvaheline standard esitab mahtanalüüsi meetodi mitteioonsete pindaktiivsete ainete hägustumispunkti indeksi määramiseks.

KAVANDITE ARVAMUSKÜSITLUS

prEVS 23529

Tähtaeg: 2003-06-01

Identne ISO 6845:1989

ja identne EN ISO 6845:2003

Surface active agents -

Technical alkane sulfonates -

Determination of the mean relative molecular mass of the alkane monosulfonates and the alkane monosulfonate content

This International Standard specifies a method for the determination of the mean relative molecular mass of the alkane monosulfonates present in technical alkane sulfonates which do not contain significant quantities of paraffins, as well as a method for the determination of the alkane monosulfonate content

71.100.50

Puidukaitse kemikaalid

Wood-protecting chemicals

UUED STANDARDID

EVS-EN 20-2:2003

Hind 130,00

Identne EN 20-2:1993

Puidukaitsevahendid -

Kaitsevõime määramine Lyctus

brunneus (stephens)'i vastu -

Osa 2: Pealekandmine

immutamise teel (laboratoorne meetod)

Standardi EN 20 käesolev osa määrab kindlaks meetodi puidukaitsevahendi kaitsevõime või toksiliste omaduste määramiseks Lyctus brunneus (stephens)'iga nakatumise vastu puidul, mida on eelnevalt töödeldud täieliku immutamise teel.

KAVANDITE ARVAMUSKÜSITLUS

prEVS 11095

Tähtaeg: 2003-06-01

Identne EN 152-2:1988 +

AC:1989

Test methods for wood preservatives; Laboratory method for determining the protective effectiveness of a preservative treatment against blue stain in service; Part 2 : Application by methods other than brushing

This European Standard lays down a method for determining the effectiveness of water-borne and oil-solvent type wood preservative applied by methods other than brushing in preventing blue stain fungi in wood in service. This method is applicable to preservatives applied by immersion processes, soaking, double vacuum or vacuum pressure techniques. It is also applicable where a primer paint is used in conjunction with the preservative system (2)

prEVS 56135

Tähtaeg: 2003-06-01

Identne EN 152-1:1988

Test methods for wood preservatives. Laboratory method for determining the preventive effectiveness of a preservative treatment against blue stain in service. Part 1: Brushing procedure

This European Standard lays down a method for determining the effectiveness of a preparation applied by brushing or similar superficial treatment resulting in an equivalent retention of product in preventing the development of blue stain fungi in wood in service

71.100.80

Kemikaalid vee puhastamiseks

Chemicals for purification of water

KAVANDITE ARVAMUSKÜSITLUS

prEVS 29273

Tähtaeg: 2003-06-01

Identne EN 12386:1998

Chemicals used for treatment of water intended for human consumption - Copper sulfate

This European Standard is applicable to copper (II) sulfate pentahydrate used for treatment of water intended for human consumption. It describes the characteristics of copper (II) sulfate pentahydrate and specifies the requirements and the corresponding test methods for copper (II) sulfate pentahydrate. It gives information on its use in water treatment

75

NAFTA JA NAFTATEHNOLOOGIA

PETROLEUM AND
RELATED
TECHNOLOGIES

KAVANDITE ARVAMUSKÜSITLUS

prEVS 56124

Tähtaeg: 2003-06-01

Identne prEN 14639:2003

Crude tar and crude benzole - Characteristics and test methods

This European Standard defines the methods of tests for the determination of the characteristics of crude tar and crude benzole

75.060

Maagaas

Natural gas

UUED STANDARDID

EVS-EN ISO 11541:2003

Hind 75,00

Identne ISO 11541:1997

ja identne EN ISO 11541:2002

Natural gas - Determination of water content at high pressure

Water vapour may be present in natural gas due to, for example, natural occurrence in the well production stream, the storage of gas in underground reservoirs, transmission or distribution through mains containing moisture or other reasons

EVS-EN ISO 6326-3:2003

Hind 66,00

Identne ISO 6326-3:1989

ja identne EN ISO 6326-3:1997

Looduslik gaas. Väävliühendite määramine. Osa 3:

Vesiniksulfiidi, merkaptaanse väävli ja karbonüülsulfiidse väävli potentsiomeetriline määramine

EN ISO 6326 käesolev osa esitab potentsiomeetrilise meetodi vesiniksulfiidi, merkaptaanse väävli ja karbonüülse väävli määramiseks looduslikus gaasis kontsentratsioonidel täpselt või üle 1 mg/m³. Gaas peab olema puhas tolmust, hägust, hapnikust, vesiniktsüaniidist ja süsinikdisulfiidist. Vesiniksulfiidi / merkaptaanse väävli suhe ja merkaptaanse väävli / vesiniksulfiidi suhe ei tohi ületada 50:1.

EVS-EN ISO 6326-5:2003

Hind 83,00

Identne ISO 6326-5:1989

ja identne EN ISO 6326-5:1997

Looduslik gaas. Väävliühendite määramine. Osa 5: Lingeneri põletusmeetod

EN ISO 6326 käesolev osa esitab looduslikus gaasis summaarse väävli määramise meetodi. Meetod on rakendatav gaasidele, millede väävliisaldus on vahemikus 0,5 mg/m³ ja 1000 mg/m³. Summaarse väävli sisaldustel üle 0,1 mg väävli absorptsioonlahuses on võimalik valida visuaalne tüüritamine kasutades indikaatorit, madalamatel sisaldustel on eelistatav turbidimeetiline tüüritamine.

75.140**Vahad, bituumsed materjalid jm naftatooted**

Waxes, bituminous materials and other petroleum products

UUED STANDARDID**EVS-EN 13357:2003**

Hind 92,00

Identne EN 13357:2002

Bitumen and bituminous binders - Determination of the efflux time of petroleum cut-back and fluxed bitumens

This European Standard specifies a method for the determination of the efflux time (pseudoviscosity) of petroleum cut-back and fluxed bitumens in seconds using an efflux viscometer

75.160.10**Tahkekütused**

Solid fuels

KAVANDITE ARVAMUSKÜSITLUS

prEVS 24832

Tähtaeg: 2003-06-01

Identne prEN 1860-3:2003

Appliances, solid fuels and firelighters for barbecuing - Part 3 : Firelighters for igniting solid fuels for use in barbecue appliances - Requirements and test methods

This European standard specifies the safety, performance, packaging and marking requirements including the test methods for firelighters used to light solid fuels in barbecue and grill appliances. The standard covers firelighters supplied as either solid, liquid, thickened liquid or gel formulations. However the use of highly flammable liquids (except in stabilised formulations) is specifically excluded from the scope of this standard as their use as barbecue firelighters is regarded as highly dangerous

75.180.10**Uuringu- ja ammutusseadmed**

Exploratory and extraction equipment

KAVANDITE ARVAMUSKÜSITLUS

prEVS 14047

Tähtaeg: 2003-06-01

Identne ISO 3977-5:2001

ja identne EN ISO 3977-5:2003

Gas turbines - Procurement - Part 5: Applications for petroleum and natural gas industries

This part of ISO 3977 specifies requirements and gives recommendations for the design, materials, fabrication, inspection, testing and preparation for shipment of packaged gas turbines for use in drilling, production, refining and the transport by pipelines of petroleum and natural gas

75.180.20**Töötlemisseadmed**

Processing equipment

UUED STANDARDID**EVS-EN ISO 15138:2003**

Hind 283,00

Identne ISO 15138:2000

ja identne EN ISO 15138:2000 + AC:2002

Petroleum and natural gas industries - Offshore production installations - Heating, ventilation and air-conditioning

EVS-EN ISO 15547:2003

Hind 146,00

Identne ISO 15547:2000

ja identne EN ISO 15547:2001

Petroleum and natural gas industries - Plate heat exchangers

This standard gives requirements and recommendations for the mechanical design, materials selection, fabrication, inspection, testing, and preparation for shipment of plate heat exchangers, sometimes referred to as plate-and-frame heat exchangers, for use in petroleum and natural gas industries.

KAVANDITE ARVAMUSKÜSITLUS

prEVS 14047

Tähtaeg: 2003-06-01

Identne ISO 3977-5:2001

ja identne EN ISO 3977-5:2003

Gas turbines - Procurement - Part 5: Applications for petroleum and natural gas industries

This part of ISO 3977 specifies requirements and gives recommendations for the design, materials, fabrication, inspection, testing and preparation for shipment of packaged gas turbines for use in drilling, production, refining and the transport by pipelines of petroleum and natural gas

77.020**Metallide tootmine**

Production of metals

KAVANDITE ARVAMUSKÜSITLUS

prEVS 12832

Tähtaeg: 2003-06-01

Identne EN 10205:1991

Külmalt taandatud rullis lehtmetsall, mis on ette nähtud tinatatud pleki või galv aaniliselt kroomi või kroomoksiidiga kaetud terase tootmiseks

The standard specifies requirements for single and double cold reduced blackplate in the form of coils which are intended for manufacturing tinplate or ECCS in accordance with EN 10202 or EN 10203

77.040.10**Metallide mehaaniline katsetamine**

Mechanical testing of metals

UUED STANDARDID**EVS-EN 10002-5:2003**

Hind 179,00

Identne EN 10002-5:1991

Metallmaterjalid. Tõmbeteim.**Osa 5: Teimimeetod****kõrgendatud temperatuuril**

Standard määrab kindlaks

metallmaterjalide

tõmbeteimimeetodi ja määrab ära

mehaanilised omadused, mida selle

meetodiga kõrgendatud

temperatuuril määrata saab.

77.040.99**Muud metallide****katsetamise meetodid**

Other methods of testing of metals

UUED STANDARDID**EVS-EN ISO 2639:2003**

Hind 57,00

Identne ISO 2639:1982

ja identne EN ISO 2639:2002

Steels - Determination and**verification of the depth of carburized and hardened cases**

This International Standard defines

the effective case depth, and

specifies methods for the

determination of this depth, in

steel

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 33822

Tähtaeg: 2003-06-01

Identne ISO 643:2003

ja identne EN ISO 643:2003

Steels - Micrographic**determination of the apparent grain size**

This International Standard

specifies the micrographic method

of determining apparent ferritic or

austenitic grain sizes of steels. It

describes the methods of revealing

grain boundaries and of estimating

the mean grain size of specimens

with unimodal size distribution

77.060**Metallide korrosioon**

Corrosion of metals

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 56084

Tähtaeg: 2003-06-01

Identne ISO 7539-6:2003

ja identne EN ISO 7539-6:2003

Corrosion of metals and alloys -**Stress corrosion testing - Part 6:****Preparation and use of pre-****cracked specimens for tests****under constant load or constant****displacement**

This part of ISO 7539 covers

procedures for designing,

preparing and using pre-cracked

specimens for investigating

susceptibility to stress corrosion

77.080.20**Terased**

Steels

UUED STANDARDID**EVS-EN 10027-2:2003**

Hind 92,00

Identne EN 10027-2:1992

Terase märgistussüsteemid.**Osa 2: Numbersüsteem**

Standard sätestab terasemarkide

märgistuseks nummerdussüsteemi

(terasenumbrid). Standard käsitleb

terasenumbrite struktuuri ning

nende registreerimise, numbrite

järjekorra ja laiendamise korraldust.

Need terasenumbrid täiendavad

standardis EN 10027-1 sätestatud

terasenimetusi.

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 10620

Tähtaeg: 2003-06-01

Identne EN 10203:1991

Külmalt taandatud galvaaniliselt**tinatatud lehtteras**

This draft European Standard

specifies requirements for single

and double cold reduced low

carbon mild steel electrolytic

tinplate in the form of sheets or

coils for subsequent cutting into

sheets

77.120.10**Alumiinium ja alumiiniumisulamid**

Aluminium and aluminium alloys

KAVANDITE**ARVAMUSKÜSITLUS**

prEVS 11067

Tähtaeg: 2003-06-01

Identne prEN 573-3:2003

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

This European Standard specifies

the chemical composition limits of

wrought aluminium and aluminium

alloys. The chemical composition

limits of aluminium and aluminium

alloys specified herein are

completely identical with those

registered with the Aluminum

Association, Washington DC

20006, USA, for the corresponding

alloys

77.140.25**Vedruteras**

Spring steels

UUED STANDARDID**EVS-EN 10089:2003**

Hind 170,00

Identne EN 10089:2002

Hot-rolled steels for quenched**and tempered springs -****Technical delivery conditions**

This European Standard specifies

the technical delivery requirements

for round and flat bars, ribbed and

grooved bars and rod

manufactured from the alloy steels

listed in Table 3, intended for hot-

formed and subsequently heat-

treated springs or cold-formed and

subsequently heat-treated springs.

The products are supplied in one

of the heat-treatment conditions

given for the different types of

products in Table 1, lines 2 to 6,

and in one of the surface

conditions given in Table 2

77.140.65

Terastraat, terastrossid ja ühendusketid

Steel wire, wire ropes and link chains

UUED STANDARDID

EVS-EN 10223-2:2003

Hind 101,00

Identne EN 10223-2:1997

Terastraat ja traattooted piirete valmistamiseks. Osa 2:

Kuusnurkne terastraatvõrk põllumajandusotstarbeks eraldamiseks ning piirete valmistamiseks

See Euroopa standard määrab kindlaks nõuded nende kuusnurksete silmadega terastraatvõrkude mõõtmete ja pinnakatete kohta, mis on ette nähtud põllumajandusotstarbeks eraldamiseks ning piirete valmistamiseks.

77.140.75

Terastorud ja eriotstarbelised torud

Steel pipes and tubes for specific use

UUED STANDARDID

EVS-EN 10305-1:2003

Hind 146,00

Identne EN 10305-1:2002

Steel tubes for precision applications - Technical delivery conditions - Part 1: Seamless cold drawn tubes

This Part of this European Standard specifies the technical delivery conditions for seamless cold drawn steel tubes of circular cross section for precision applications

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56097

Tähtaeg: 2003-06-01

Identne prEN 10210-1:2003

Kuumalt lõppvaltsitud konstruktsiooni-õõnesprofiilid mittelegeer- ja peenetera-konstruktsiooniterastest. Osa 1: Tehnilised tarnenõuded

This part of this European Standard specifies technical delivery requirements for hot finished hollow sections of circular, square, rectangular or elliptical forms and applies to hollow sections formed hot with or without subsequent heat treatment or formed cold with subsequent heat treatment to obtain equivalent metallurgical conditions to those obtained in the hot formed product

prEVS 56098

Tähtaeg: 2003-06-01

Identne prEN 10210-2:2003

Hot finished structural hollow sections of non-alloy and fine grain steels - Part 2: Tolerances, dimensions and sectional properties

This part of EN 10210 specifies tolerances for hot finished circular, square, rectangular and elliptical structural hollow sections manufactured in wall thickness up to 120 mm in the following dimensional ranges: Circular: Outside diameter up to 2 500 mm Square: side length up to 800 mm Rectangular: side length up to 750 mm x 500 mm Elliptical: outside dimension up to 500 mm x 250 mm Dimensions and sectional properties for a range of standard sizes are also specified

prEVS 56099

Tähtaeg: 2003-06-01

Identne prEN 10219-1:2003

Cold formed welded structural hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery requirements

This part of this European Standard specifies the technical delivery requirements for cold formed welded structural hollow sections of circular, square, rectangular or elliptical forms and applies to structural hollow sections formed cold without subsequent heat treatment

prEVS 56100

Tähtaeg: 2003-06-01

Identne prEN 10219-2:2003

Cold formed welded structural hollow sections of non-alloy and fine grain steels - Part 2: Tolerances, dimensions and sectional properties

This part of EN 10219 specifies tolerances for cold formed welded circular, square and rectangular structural hollow sections manufactured in wall thickness up to 40 mm in the following dimensional ranges: Circular: Outside diameter from 20 mm to 2500 mm Square: side length from 20 mm to 500 mm Rectangular: side length from 40 mm x 20 mm to 400 mm x 300 mm Dimensions and sectional properties for a range of standard sizes are also specified

77.150.10

Alumiiniumtooted

Aluminium products

UUED STANDARDID

EVS-EN 586-3:2003

Hind 212,00

Identne EN 586-3:2001

Aluminium and aluminium alloys - Forgings - Part 3: Tolerances on dimensions and form

This part of EN 586 specifies the tolerances on dimensions and form of aluminium and aluminium alloy forgings for general engineering applications of usual design which are formed hot.

EVS-EN 755-9:2003

Hind 117,00

Identne EN 755-9:2001

Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 9: Profiles, tolerances on dimensions and form

This part of EN 755 specifies the tolerances on dimensions and form for aluminium and aluminium alloy extruded profile with a cross section contained within a circumscribing circle not greater than 800 mm.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 11067

Tähtaeg: 2003-06-01

Identne prEN 573-3:2003

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

This European Standard specifies the chemical composition limits of wrought aluminium and aluminium alloys. The chemical composition limits of aluminium and aluminium alloys specified herein are completely identical with those registered with the Aluminum Association, Washington DC 20006, USA, for the corresponding alloys

77.150.30

Vasktooted

Copper products

UUED STANDARDID

EVS-EN 13347:2003

Hind 117,00

Identne EN 13347:2002

Copper and copper alloys - Rod and wire for welding and braze welding

This European Standard specifies the composition, property requirements and dimensional tolerances for copper and copper alloy rod and wire intended for welding and braze welding purposes. The sampling procedures, the methods of test for verification of conformity to the requirements of this standard, and the delivery conditions are also specified

79.060.10

Vineer

Plywood

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56146

Tähtaeg: 2003-06-01

Identne EN 1072:1995

Plywood - Description of bending properties for structural plywood

This European Standard specifies how bending properties can be described and used to identify structural plywood. These bending properties are derived from medium sized test pieces according to EN 789 and EN 1058

79.080

Puitpooltooted

Semi-manufactures of timber

UUED STANDARDID

EVS-EN 13442:2003

Hind 92,00

Identne EN 13442:2002

Wood and parquet flooring and wood panelling and cladding - Determination of the resistance to chemical agents

This European Standard specifies a test method to determine the resistance of the surface of an element of wood and parquet flooring, panelling and cladding, to a predetermined list of chemical agents they may be exposed to during their service life

EVS-EN 13629:2003

Hind 139,00

Identne EN 13629:2002

Wood flooring - Solid pre-assembled hardwood board

This European standard specifies the characteristics of solid pre-assembled hardwood boards with grooves and/or tongues for internal use as flooring. This standard covers solid hardwood pre-assembled boards with or without surface treatment

79.120.20

Puidutööriistad

Woodworking tools

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 29960

Tähtaeg: 2003-06-01

Identne prEN 1870-11:2003

Safety of woodworking machines - Circular sawing machines - Part 11: Semi-automatic and automatic horizontal cross-cut sawing machines with one saw unit (radial arm saws)

This European Standard specifies the requirements and/or measures to remove the hazards and/or limit the risks on semi-automatic and automatic horizontal cutting cross-cut sawing machines with one saw unit (radial arm saws), hereinafter referred to as "machines", designed to cut solid wood, chipboard, fibreboard, plywood and also these materials when covered with

plastic edging and/or plastic/light alloy laminates

81.040.20

Ehitusklaas

Glass in building

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 35172

Tähtaeg: 2003-06-01

Identne prEN 13022-1:2003

Glass in building - Structural sealant glazing - Part 1: Glass products for structural sealant glazing systems - Supported and unsupported monolithic and multiple glazing

This European standard specifies requirements for the suitability for use of supported and unsupported glass products (see Figure 1) for use in the Structural Sealant Glazing (SSG)1) technique in conformity with one of the three situations as shown in Figure 2, as example/illustration
prEVS 35174

Tähtaeg: 2003-06-01

Identne prEN 13022-2:2003

Glass in Building - Structural sealant glazing - Part 2: Product standard for ultra-violet resistant sealant and structural sealant

This European Standard covers the evaluation of conformity and the factory production control of sealant for the intrinsic capabilities when intended to apply for: - insulating glass units to assemble there where ultra-violet resistance and/or mechanical resistance (structural use) of the insulating glass edge seal is required; - the manufacturing of factory made structural sealant glazing elements when referred to by the relevant European technical specifications. - the assembling of glass products into or onto supports, where also ultra-violet resistance and/or mechanical resistance (structural use) of the seal is required
prEVS 35175

Tähtaeg: 2003-06-01

Identne prEN 13022-3:2003

Glass in Building - Structural sealant glazing - Part 3: Assembly rules

This European standard deals with the assembling of glass elements in a window, door or curtain walling construction, or directly in the building by means of structural bonding the glass element into or onto framework or directly in the building

81.060.30

**Kõrgtehnoloogiline
keraamika**

Advanced ceramics

UUED STANDARDID

EVS-EN 658-2:2003

Hind 117,00

Identne EN 658-2:2002

**Advanced technical ceramics -
Mechanical properties of
ceramic composites at room
temperature - Part 2:**

**Determination of compression
properties**

This part of this European Standard describes a method for determination of compression properties of ceramic matrix composite materials with continuous fibre reinforcement at room temperature. This method applies to all ceramic matrix composites with a continuous fibre reinforcement, unidirectional (1D), bidirectional (2D), and tridirectional (xD, with $2 < x \leq 3$) as defined in ENV 13233, loaded along one principal axis of reinforcement

81.080

Tulekindlad materjalid

Refractories

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56129

Tähtaeg: 2003-06-01

Identne ISO 12676:2000

ja identne EN ISO 12676:2003

**Refractory products -
Determination of resistance to
carbon monoxide**

This International Standard specifies a method for determining the comparative resistance of refractory materials to carbon monoxide disintegration

prEVS 56158

Tähtaeg: 2003-06-01

Identne EN 993-2:1995/
prA1:2003

**Tihedate tulekindlate
profiiltoodete katsemeetodid.**

**Osa 2: Tegelik tiheduse
määramine**

This part of the Standard specifies a method for measuring the true density of refractory and raw materials

81.100

**Klaasi- ja
keraamatööstuse
seadmestik**

Equipment for the glass and
ceramics industries

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 36219

Tähtaeg: 2003-06-01

Identne prEN 13035-3:2003

**Machines and plants for the
manufacture, treatment and
processing of flat glass - Safety
requirements - Part 3: Cutting
machines**

This standard contains the requirements for safety for the design and installation of machines with one movable bridge for cutting of flat glass, which operate by scoring of the glass placed on a horizontal support. This standard covers the transport of the glass on the machine

prEVS 36232

Tähtaeg: 2003-06-01

Identne prEN 13035-4:2003

**Machines and plants for the
manufacture, treatment and
processing of flat glass - Safety
requirements - Part 4: Tilting
tables**

This standard contains the requirements for safety for the design and installation of tilting tables, where the flat glass is brought from the horizontal almost to the vertical position or vice versa by lying on or supported at the lower edge leaning against a supporting surface

83.080.01

Plastid üldiselt

Plastics in general

UUED STANDARDID

EVS-EN ISO 4600:2003

Hind 75,00

Identne ISO 4600:1992

ja identne EN ISO 4600:1997

**Plastid - Vastupidavuse
määramine keskkonna
pingetest põhjustatud
pragunemisele (environmental
stress cracking) (ESC) - Kuuli
või nõela jälje meetod**

Käesolev standard määrab kindlaks meetodi plastide vastupidavuse määramiseks keskkonna pingest tekitatud pragunemisele (environmental stress cracking) (ESC) konstantse pingestamise testi abil. Test kehtib viimistletud toodete ja proovikehade kohta, mis on tehtud vormimise ja/või mehaanilise töötlemise teel. Testi võib kasutada erinevate keskkonnamõjudele allutatud plasttoodete ja materjalide ESC-hindamiseks kui ka spetsiifilise keskkonna mõjule allutatud plastide ESC-määramiseks.

EVS-EN ISO 6721-1:2003

Hind 126,00

Identne ISO 6721-1:2001

ja identne EN ISO 6721-1:2002

**Plastics - Determination of
dynamic mechanical properties
- Part 1: General principles**

The various parts of ISO 6721 specify methods for the determination of the dynamic mechanical properties of rigid plastics within the region of linear viscoelastic behaviour. This part of ISO 6721 is an introductory section which includes the definitions and all aspects that are common to the individual test methods described in the subsequent parts

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 5764

Tähtaeg: 2003-06-01

Identne ISO 2039-1:2001

ja identne EN ISO 2039-1:2003

**Plastics - Determination of
hardness - Part 1: Ball
indentation method**

This part of ISO 2039 specifies a method for determining the hardness of plastics and ebonite by means of a loaded ball indenter

prEVS 14048

Tähtaeg: 2003-06-01

Identne ISO 13927:2001

ja identne EN ISO 13927:2003

**Plastics - Simple heat release
test using a conical radiant
heater and a thermopile
detector**

This International Standard specifies a method suitable for production control or product development purposes, for assessing the heat release rate of essentially flat products exposed in the horizontal orientation to controlled levels of radiant heating with an external igniter

prEVS 14382

Tähtaeg: 2003-06-01

Identne ISO 178:2001

ja identne EN ISO 178:2003

Plastics - Determination of flexural properties

This International Standard specifies a method for determining the flexural properties of rigid and semi-rigid plastics under defined conditions

prEVS 56133

Tähtaeg: 2003-06-01

Identne ISO 11403-1:2001

ja identne EN ISO 11403-1:2003

Plastid. Võrreldavate mitmest omadusest sõltuvate andmete saamine ja esitamine. Osa 1: Mehaanilised omadused

This part of ISO 11403 specifies test procedures for the acquisition and presentation of multipoint data on the following mechanical properties of plastics: Dynamic modulus Tensile properties at constant test speed -Ultimate stress and strain -Tensile stress-strain curves Tensile creep Charpy impact strength The test methods and test conditions apply predominantly to those plastics that can be injection- or compression-moulded or prepared as sheets of specified thickness from which specimens of the appropriate size can be machined

83.080.10

Kuumalt kõvenevad materjalid (termosetid)

Thermosetting materials

UUED STANDARDID

EVS-EN ISO 295:2003

Hind 75,00

Identne ISO 295:1991

ja identne EN ISO 295:1998

Plastid - Termoreaktiivsetest

materjalist proovikehade

survevormimine

Käesolev standard määrab kindlaks põhimõtted ja protseduurid, mida tuleb järgida termoreaktiivsetest kompaundidest kuumuse ja surve all vormitud proovikeha ettevalmistamisel. Määratakse kindlaks ka põhimõtted ja protseduurid eri testimisorganisatsioonide võrreldavate testimisaruannete hindamiseks. See kehtib vaid termoreaktiivsete materjalide kohta, mis põhinevad fenoolsetel materjalidel (ISO 800), aminoplastidel (ISO 2112), melamiin-fenoolsetel materjalidel (ISO 4896), epoksiididel ja küllastamata polüestritel.

EVS-EN ISO 308:2003

Hind 57,00

Identne ISO 308:1994

ja identne EN ISO 308:1997

Plastid - Fenoolsed vormitavad materjalid - Atsetoonis lahustuva materjali sisalduse määramine (näiv vaigusisalduse vormimata materjalis)

Käesolev standard määrab kindlaks kaalumeetodi atsetooniga ekstraheeritava materjali sisalduse määramiseks materjali keemistemperatuurilähedasel temperatuuril. Kasutatav näidis on peene struktuuriga fenoolne vormitav materjal.

83.080.20

Termoplastid

Thermoplastic materials

KAVANDITE ARVAMUSKÜSITLUS

prEVS 15908

Tähtaeg: 2003-06-01

Identne ISO 294-4:2001

ja identne EN ISO 294-4:2003

Plastics - Injection moulding of test specimens of thermoplastic materials - Part 4:

Determination of moulding shrinkage

This part of ISO 249 specifies a method of determining the moulding shrinkage and post-moulding shrinkage of injection-moulded test specimens of thermoplastic material in the directions parallel to and normal to the direction of melt flow

prEVS 21681

Tähtaeg: 2003-06-01

Identne ISO 1628-3:2001

ja identne EN ISO 1628-3:2003

Plastics - Determination of the viscosity of polymers in dilute solution using capillary viscometers - Part 3:

Polyethylenes and polypropylenes

This part of ISO 1628 defines particular conditions for determining the reduced viscosity (also known as viscosity number) and intrinsic viscosity of polyethylenes and polypropylenes at 135 °C in dilute solution

prEVS 56132

Tähtaeg: 2003-06-01

Identne ISO 293:1986

ja identne EN ISO 293:2003

Plastics - Compression moulding test specimens of thermoplastic materials

This International Standard specifies the general principles and the procedures to be followed with thermoplastics in the preparation of compression-moulded test specimens and sheets from which test specimens may be machined or stamped

83.140.10

Kiled

Films and sheets

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 13136

Tähtaeg: 2003-06-01

Identne prEN 1844:2000

Flexible sheets for waterproofing - Determination of resistance to ozone - Plastic and rubber sheets for roof waterproofing

This European Standard specifies a method for the determination of the resistance of plastic and rubber sheets for waterproofing to cracking when exposed, under static tensile strain, to air containing a definite concentration of ozone and at a definite temperature without the effects of direct light

83.140.40

Voolikud

Hoses

UUED STANDARDID

EVS-EN ISO 15541:2003

Hind 75,00

Identne ISO 15541:1999

ja identne EN ISO 15541:2001

**Ships and marine technology -
Fire resistance of hose
assemblies - Requirements for
the test bench**

This standard specifies requirements on a test bench to determine the fire resistance of hose assemblies, in particular by tests according to ISO 15540, up to at least 100 mm nominal diameter. During the exposure to flames, there are possible working pressure up to 10 bar.

83.180

Liimid

Adhesives

UUED STANDARDID

EVS-EN 14493:2003

Hind 92,00

Identne ISO 11343:1993

ja identne EN 14493:2002

**Structural adhesives -
Determination of dynamic
resistance to cleavage of high
strength adhesive bonds under
impact conditions - Wedge
impact method**

This European Standard specifies a dynamic impact wedge method for the determination of the cleavage resistance under impact loading of high-strength adhesive bonds between two metallic adherends, when tested under specified conditions of preparation and testing. The method allows a choice of sheet metal substrate corresponding to those materials frequently used in industry, e.g. for automotive applications

85.040

Tselluloos- ja puitmass

Pulps

UUED STANDARDID

EVS-EN ISO 5264-2:2003

Hind 83,00

Identne ISO 5264-2:2002

ja identne EN ISO 5264-2:2002

Tehnilised tselluloosid.

Laboratoorne jahvatamine.

Osa 2: PFI-veski meetod

This part of ISO 5264 specifies a method, using a PFI mill, for the laboratory beating of pulp. The description is limited to the sampling and beating of the pulp, the withdrawal and distribution of samples, and the beating equipment

87.040

Värvid ja lakid

Paints and varnishes

UUED STANDARDID

EVS-EN 927-5:2003

Hind 66,00

Identne EN 927-5:2000

**Paints and varnishes - Coating
materials and coating systems
for exterior wood - Part 5:
Assessment of the liquid water
permeability**

91.060

Ehituselemendid

Elements of buildings

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 31884

Tähtaeg: 2003-06-01

Identne prEN 13241-1:2003

**Industrial, commercial and
garage doors and gates -
Product standard - Part 1:
Products without fire resistance
or smoke control characteristics**
This European Standard specifies the safety and performance requirements for doors, gates and barriers, intended for installation in areas in the reach of persons, and for which the main intended uses are giving safe access for goods and vehicles accompanied or driven by persons in industrial, commercial or residential premises

91.060.40

Korstnad, lõõrid, kanalid

Chimneys, shafts, ducts

UUED STANDARDID

EVS-EN 1457:1999/A1:2003

Hind 101,00

Identne EN 1457:1999/A1:2002

**Chimneys -Clay/Ceramic Flue
Liners - Requirements and test
methods**

This European standard is a product standard for clay/ceramic flue liners with solid walls or walls with vertical perforations for use in the construction of chimneys and flue pipes which serve to convey products of combustion from fireplaces or heating appliances to the atmosphere by negative or positive pressure

91.060.50

Uksed ja aknad

Doors and windows

UUED STANDARDID

EVS-EN 13330:2003

Hind 75,00

Identne EN 13330:2002

**Shutters - Hard body impact -
Test method**

This European Standard specifies tests to be done for determining behaviour, under conventional hard body impact, of the shutters, these are: external venetian blind, roller shutter, venetian shutter, flat closing concertina shutter, concertina shutter, wing shutter, sliding panel shutter. The requirements relate only to the preservation of performances of shutters, namely functioning and appearance

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56136

Tähtaeg: 2003-06-01

Identne EN 130:1988

**Methods of testing doors; Test
for the change in stiffness of the
door leaves by repeated torsion**

This Standard describes a method to be used to determine the change in stiffness of a door leaf after periodical stress in torsion
prEVS 56137

Tähtaeg: 2003-06-01

Identne EN 129:1988

Methods of testing doors

This standard describes a method to be used to determine the residual deformation of a door leaf after static stress in torsion
prEVS 56147

Tähtaeg: 2003-06-01

Identne EN 107:1980

**Methods of testing windows;
Mechanical test**

This standard defines the method to be used for the tests of mechanical strength of windows considered as finished products, in their normal condition of use

91.080.20

Puitkonstruktsioonid

Timber structures

UUED STANDARDID

EVS-EN 383:2003

Hind 92,00

Identne EN 383:1993

Timber structures - Test methods - Determination of embedding strength and foundation values for dowel type fasteners

See standard esitab meetodi tüübelkinnitusdetailide kinnitustugevuse ja jäikuse määramiseks puidus. Standardit rakendatakse täispuidu, lamell-lümpuidu ja puitplaatide kohta.

91.100.10

Tsement. Kips. Lubi. Mört

Cement. Gypsum. Lime. Mortar

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 37780

Tähtaeg: 2003-06-01

Identne prEN 13279-2:2003

Gypsum binders and gypsum plasters - Part 2: Test methods

This European Standard describes the reference test methods for all gypsum binders and gypsum plasters covered by prEN 13279-1

91.100.15

Mineraalsed materjalid ja tooted

Mineral materials and products

UUED STANDARDID

EVS-EN 13242:2003

Hind 179,00

Identne EN 13242:2002

Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction

This European Standard specifies the properties of aggregates obtained by processing natural or manufactured or recycled materials for hydraulically bound and unbound materials for civil engineering work and road construction

91.100.25

Keraamilised ehitustooted

Ceramic building products

UUED STANDARDID

EVS-EN 186-1:2003

Hind 75,00

Identne EN 186-1:1991

Kahlid - Pressitud kahlid veeimavusega 3% <E <= 6% (Grupp A IIa) Osa 1

Standard määrab kindlaks kahlite suuruse, mõõtmeterantsid, nõuded mehaanilistele, füüsikalistele ja keemilistele omadustele, nõuded pinna kvaliteedile ning märgistuse.

EVS-EN 186-2:2003

Hind 75,00

Identne EN 186-2:1991

Kahlid - Pressitud kahlid veeimavusega 3% <E <= 6% (Grupp A IIa) Osa 2

Standard määrab kindlaks kahlite suuruse, mõõtmeterantsid, nõuded mehaanilistele, füüsikalistele ja keemilistele omadustele, nõuded pinna kvaliteedile ning märgistuse.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 24824

Tähtaeg: 2003-06-01

Identne EN 188:1991

Ceramic tiles; extruded ceramic tiles with a water absorption of E <größer> 10 % (group AIII)

This European Standard specifies the sizes, dimensional tolerances, mechanical, physical and chemical requirements, surface quality requirements and marking of ceramic tiles

prEVS 27652

Tähtaeg: 2003-06-01

Identne EN 187-2:1991

Ceramic tiles; extruded ceramic tiles with a water absorption of 6 % <kleiner> E <kleiner => 10 % (group AIIb); part 2

This European Standard specifies the size, dimensional tolerances, mechanical, physical and chemical requirements, surface quality requirements and marking of ceramic tiles

prEVS 32989

Tähtaeg: 2003-06-01

Identne EN 176:1991

Dust-pressed ceramic tiles with a low water absorption (E <= 3 %); group BI

This European Standard specifies the sizes, dimensional tolerances, mechanical, physical and chemical requirements, surface quality requirements and marking of ceramic tiles

prEVS 33159

Tähtaeg: 2003-06-01

Identne EN 177:1991

Dust-pressed ceramic tiles with a water absorption of 3 % < E <= 6 %; group BIIa

This European Standard specifies the sizes, dimensional tolerances, mechanical, physical and chemical requirements, surface quality requirements and marking of ceramic tiles

prEVS 35121

Tähtaeg: 2003-06-01

Identne EN 187-1:1991

Ceramic tiles; extruded ceramic tiles with a water absorption of 6 % <kleiner> E <kleiner => 10 % (group AIIb); part 1

This European Standard specifies the size, dimensional tolerances, mechanical, physical and chemical requirements, surface quality requirements and marking of ceramic tiles

prEVS 35634

Tähtaeg: 2003-06-01

Identne EN 178:1991

Dust-pressed ceramic tiles with a water absorption of 6 % < E <= 10 %; group BIIIb

This European Standard specifies the size, dimensional tolerances, mechanical and chemical requirements, surface quality requirements and marking of ceramic tiles

prEVS 56134

Tähtaeg: 2003-06-01

Identne EN 159:1991

Dust-pressed ceramic tiles with water absorption E < 10 %; group BIII

This European Standard specifies size, dimensional tolerances, mechanical, physical and chemical requirements, surface quality requirements and marking of ceramic tiles

prEVS 56139

Tähtaeg: 2003-06-01

Identne EN 121:1991

Extruded ceramic tiles with low water absorption (E = 3 %); group A 1

This European Standard specifies the sizes, dimensional tolerances, mechanical, physical and chemical requirements, surface quality requirements and marking of ceramic tiles

prEVS 56151

Tähtaeg: 2003-06-01

Identne EN 101:2003

Ceramic tiles; determination of scratch hardness of surface according to Mohs

This European Standard defines a method of test for determining the scratch hardness of the surface of all ceramic tiles

91.100.50

Sideained.

Tihendusmaterjalid

Binders. Sealing materials

UUED STANDARDID

EVS-EN 13357:2003

Hind 92,00

Identne EN 13357:2002

Bitumen and bituminous binders - Determination of the efflux time of petroleum cut-back and fluxed bitumens

This European Standard specifies a method for the determination of the efflux time (pseudoviscosity) of petroleum cut-back and fluxed bitumens in seconds using an efflux viscometer

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 13136

Tähtaeg: 2003-06-01

Identne prEN 1844:2000

Flexible sheets for

waterproofing - Determination of resistance to ozone - Plastic and rubber sheets for roof waterproofing

This European Standard specifies a method for the determination of the resistance of plastic and rubber sheets for waterproofing to cracking when exposed, under static tensile strain, to air containing a definite concentration of ozone and at a definite temperature without the effects of direct light

91.140

Hoonete tehnoseadmed

Installations in buildings

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56093

Tähtaeg: 2003-06-01

Identne prEN 14624:2003

Performances of mobile leak detectors and of room controllers of halogenated refrigerants

The purpose of this European Standard is to qualify performances of leak detectors or room controllers of halogenated refrigerants. These leak detectors are designed for the detection of CFC, HCFC, HFC and PFC halogenated gases, and their sensitivity is checked with a calibrated leak

91.140.30

Ventilatsiooni- ja kliimasüsteemid

Ventilation and air-conditioning systems

UUED STANDARDID

EVS-EN 60335-2-88:2003

Hind 130,00

Identne IEC 60335-2-88:2002

ja identne EN 60335-2-88:2002

Safety of household and similar electrical appliances - Part 2: Particular requirements for humidifiers intended for use with heating, ventilation or air conditioning systems

This standard deals with the safety of electric humidifiers intended for use with heating, ventilation, or air-conditioning systems in household, commercial, and light industrial applications (and may include large stand-alone commercial equipment) which operate according to the evaporative or atomization system, water-injection, steam and the like, their rated voltage being not more than 250 V for single-phase appliances and 600 V for all other appliances.

91.140.50

Elektrivarustussüsteemid

Electricity supply systems

UUED STANDARDID

EVS-HD 384.5.523 S2:2003

Hind 229,00

Identne IEC 60364-5-523:1999

ja identne HD 384.5.523 S2:2001

Electrical installations of buildings - Part 5: Selection and erection of electrical equipment - Section 523: Current-carrying capacities in wiring systems

Deals with the selection and erection of wiring systems.

91.140.60

Veearustussüsteemid

Water supply systems

UUED STANDARDID

EVS-EN 13443-1:2003

Hind 130,00

Identne EN 13443-1:2002

Water conditioning equipment inside buildings - Mechanical filters - Part 1: Particle rating 80 µm to 150 µm - Requirements for performances and safety, testing

Part 1 of this European standard applies to mechanical filters for drinking water installations inside buildings, of nominal size from DN 15 to DN 100, minimum nominal pressure PN10, particle rating of 80 µm to 150 µm, and minimum design temperature of 30° C. It specifies requirements relating to the construction and mode of operation of filters and describes relevant methods of testing. It only concerns units which are permanently connected to the mains supply at the point of entry into the building

91.140.70

Sanitaarseadmed

Sanitary installations

UUED STANDARDID

EVS-EN 12541:2003

Hind 170,00

Identne EN 12541:2002

Sanitary tapware - Pressure flushing valves and automatic closing urinal valves PN 10

This draft European standard applies to flushing valves for WCs and valves for urinals, with automatic hydraulic closure, intended for :- WC pans EN 997 ;- single flush urinals prEN 13407 ;- siphon acting urinals prEN 13407. It does not apply to no-contact detection valves

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 7065

Tähtaeg: 2003-06-01

Identne EN 198:1987

Specification for finished baths for domestic purposes made of acrylic material

This European Standard specifies the requirements for baths for domestic purposes made from acrylic materials which ensure that the product, when installed in accordance with manufacturers' instructions, gives satisfactory performance

prEVS 56083

Tähtaeg: 2003-06-01

Identne prEN 997:2003

WC pans and WC suites with integral trap

This standard specifies constructional and performance requirements together with test methods for close-coupled suites, one-piece and independent WC pans with integral trap used for personal hygiene manufactured from vitreous china or stainless steel

91.160

Valgustus

Lighting

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56091

Tähtaeg: 2003-06-01

Identne prEN 12464-2:2003

Light and lighting - Lighting of work places - Part 2: Outdoor work places

This European standard specifies lighting requirements for outdoor work places, which meet the needs for visual comfort and performance. All usual visual tasks are considered

prEVS 56092

Tähtaeg: 2003-06-01

Identne prEN 14276-2:2003

Light and lighting - Lighting of work places - Part 2: Outdoor work places

This European standard specifies lighting requirements for outdoor work places, which meet the needs for visual comfort and performance. All usual visual tasks are considered. This standard neither provides specific solutions, nor restricts the designer's freedom from exploring new techniques nor restricts the use of innovative equipment

91.180

Siseviimistlus

Interior finishing

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56155

Tähtaeg: 2003-06-01

Identne EN 651:1996/prA1:2003

Elastsed põrandakatted.

Vahtaluskihiga polüvinüülkloriid-põrandakatted. Tehnilised andmed

This Standard specifies the characteristics of floor coverings based on polyvinyl chloride with polyvinyl chloride foam layer, supplied in either tile or roll form.

To encourage the customer to make an informed choice, the standard includes a classification system (see EN 685) based on intensity of use, which shows where these floor coverings should give satisfactory service. It also specifies requirements for marking

prEVS 56156

Tähtaeg: 2003-06-01

Identne EN 654:1996/prA1:2003

Elastsed põrandakatted.

Poolpainduvad polüvinüülkloriid-plaadid. Tehnilised andmed

This European Standard specifies the characteristics of semi-flexible tiles based on polyvinyl chloride and modifications thereof. To encourage the consumer to make an informed choice, the standard includes a classification system (see EN 685) based on intensity of use, which shows where these floor coverings should give satisfactory service. It also specifies requirements for marking

91.190

Ehitustarvikud

Building accessories

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 13844

Tähtaeg: 2003-06-01

Identne EN 13633:2003

Building hardware - Electrically controlled panic exit systems for use on escape routes - Requirements and test methods

This European Standard specifies requirements for the manufacture, performance and testing of electrically controlled panic exit systems operated by a horizontal bar as an initiating element, specifically designed for use in a panic situation

prEVS 13919

Tähtaeg: 2003-06-01

Identne prEN 13637:2003

Building hardware - Electrically controlled emergency exit systems for use on escape routes - Requirements and test methods

This European standard specifies requirements for the manufacture, performance and testing of electrically controlled emergency exit systems, specifically designed for use in an emergency situation. These systems consist of at least the following elements: a)

Electrical locking element for securing an emergency exit door;

b) Requesting element for requesting the release of electrical locking elements in order to exit; c)

Electrical controlling element for supplying, connecting and controlling electrical locking element and requesting element

prEVS 35371

Tähtaeg: 2003-06-01

Identne prEN 1125:2003

Building hardware - Panic exit devices operated by a horizontal bar, for use on escape routes - Requirements and test methods

This European Standard specifies requirements for the manufacture, performance and testing of panic exit devices mechanically operated by either a horizontal push-bar or a horizontal touch-bar specifically designed for use in a panic situation

prEVS 56077

Tähtaeg: 2003-06-01

Identne prEN 179:2003

Building hardware - Emergency exit devices operated by a lever handle or push pad, for use on escape routes

This European Standard specifies requirements for the manufacture, performance and testing of emergency exit devices mechanically operated by either a lever handle or a push pad, for use where a panic situation is unlikely to arise

prEVS 56107

Tähtaeg: 2003-06-01

Identne prEN 14637:2003

Building hardware - Electrically controlled hold-open systems for fire/smoke door assemblies - Requirements, test methods, application and maintenance
This European Standard specifies requirements, methods of test and performance criteria against which the compatibility of elements and their performance can be assessed when used in combination to form an electrically controlled hold-open system

91.220

Ehitusseadmed

Construction equipment

UUED STANDARDID

EVS-EN 12111:2003

Hind 170,00

Identne EN 12111:2002

Tunnelling machines - Road headers, continuous miners and impact rippers - Safety requirements

This European Standard specifies all significant hazards, hazardous situations and events relevant to road headers, continuous miners and impact rippers, when they are used as intended and under the conditions foreseen by the manufacturer (see clause 4). This standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards. This European Standard is applicable to road headers, continuous miners and impact rippers used in tunnelling and underground mining

EVS-EN 12629-2:2003

Hind 101,00

Identne EN 12629-2:2002

Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 2: Block making machines

This European Standard applies to machines for the manufacture of blocks, kerbs, paving stones and similar concrete products. This European Standard deals with all significant hazards pertinent to these machines, when they are used as intended under the conditions foreseen by the manufacturer (see clause 4). This European Standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards

EVS-EN 12629-3:2003

Hind 130,00

Identne EN 12629-3:2002

Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 3: Slide and turntable machines

This European Standard applies to machines for the manufacture of constructional products of calcium silicate or concrete, where the mould(s) is (are) mounted on a turning or slide moving table. The motive power for compressing the mixture is effected either mechanically (annexes A, B), or hydraulically (annexes C and D)

EVS-EN 12629-8:2003

Hind 117,00

Identne EN 12629-8:2002

Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 8: Machines and equipment for the manufacture of constructional products from calcium-silicate (and concrete)

This European Standard applies to hydraulic machines for the manufacture of bricks, blocks and elements of calcium-silicate (as illustrated in annexes A and B)

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 13230

Tähtaeg: 2003-06-01

Identne prEN 12629-5-1:2003

Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 5-1: Pipe making machines manufacturing in the vertical axis

This European Standard applies to machines for vertical manufacture of pipes, manholes and similar elements from concrete. This European Standard deals with the significant hazards listed in clause 4, when used as intended under the conditions foreseen by the manufacturer. This European Standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards, except noise hazards

prEVS 56080

Tähtaeg: 2003-06-01

Identne prEN 12629-5-2:2003

Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 5-2: Pipe making machines manufacturing in the horizontal axis

This European Standard applies to machines for the manufacture of pipes in the horizontal axis and similar elements from concrete. This European Standard deals with the hazards listed in clause 4, when used as intended under the conditions foreseen by the manufacturer (see clause 4). This European Standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards, except noise hazards

prEVS 56081

Tähtaeg: 2003-06-01

Identne prEN 12629-5-3:2003

Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 5-3: Pipe prestressing machines

This European Standard applies to pipe prestressing machines. This European Standard deals with the significant hazards listed in clause 4, when used as intended under the conditions foreseen by the manufacturer. This European Standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards, except noise hazards

prEVS 56082

Tähtaeg: 2003-06-01

Identne prEN 12629-5-4:2003

Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 5-3: Pipe prestressing machines

This European Standard applies to pipe prestressing machines. This European Standard deals with the significant hazards listed in clause 4, when used as intended under the conditions foreseen by the manufacturer. This European Standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards, except noise hazards

93.030**Kanaliseerimine
välisvõrgud**

External sewage systems

UUED STANDARDID**EVS-EN 12380:2003**

Hind 139,00

Identne EN 12380:2002

**Air admittance valves for
drainage systems -****Requirements, tests methods
and evaluation of conformity**

This European Standard establishes requirements, test methods and evaluation of conformity for air admittance valves to be used in drainage systems installed inside buildings in accordance with EN 12056-2 and EN 12056-5. It specifies the performance requirements of air admittance valves and how to test them to demonstrate compliance with this standard

EVS-EN 13244-5:2003

Hind 92,00

Identne EN 13244-5:2002

**Plastics piping systems for
buried and above-ground
pressure systems for water for
general purposes, drainage and
sewerage - Polyethylene (PE) -
Part 5: Fitness for purpose of
the system**

This Part of prEN 13244 specifies the characteristics of the fitness for purpose of the assembled piping systems intended for buried and above-ground pressure systems for water for general purposes, drainage and sewerage. It is also applicable for vacuum sewer systems

EVS-EN 13566-1:2003

Hind 130,00

Identne EN 13566-1:2002

**Plastics piping systems for
renovation of underground
nonpressure drainage and
sewerage networks - Part 1:
General**

This standard specifies the requirements and test methods for plastics piping systems used for renovation of underground non-pressure drainage and sewerage networks which are operated as gravity systems and subject to a maximum surcharge pressure of 0,5 bar. It is applicable to pipes and fittings as manufactured as well as to the installed plastics lining system; it does not cover the

existing pipeline or any annular filler

EVS-EN 13566-3:2003

Hind 146,00

Identne EN 13566-3:2002

**Plastics piping systems for
renovation of underground
nonpressure drainage and
sewerage networks - Part 3:
Lining with close-fit pipes**

This Part 3 of prEN 13566, read in conjunction with prEN 13566-1, specifies requirements and test methods for close-fit lining systems intended to be used for the renovation of non-pressure drainage and sewerage networks. It covers pipes and fittings made of polyethylene (PE) or unplasticized poly(vinyl chloride) (PVC-U). It is applicable to the plastic lining system only. It does not cover the requirements for the existing pipeline

EVS-EN 13566-4:2003

Hind 170,00

Identne EN 13566-4:2002

**Plastics piping systems for
renovation of underground
nonpressure drainage and
sewerage networks - Part 4:
Lining with cured-in-place
pipes**

This Part 4 of prEN 13566, in conjunction with Part 1, specifies requirements and test methods for cured-in-place pipes and fittings used for renovation of underground non-pressure drainage and sewerage networks. It covers the use of various thermosetting resin systems in combination with compatible fibrous carrier materials and other process-related plastics components as defined in 4.1

93.060**Tunneliehitus**

Tunnel construction

UUED STANDARDID**EVS-EN 12111:2003**

Hind 170,00

Identne EN 12111:2002

**Tunnelling machines - Road
headers, continuous miners and
impact rippers - Safety
requirements**

This European Standard specifies all significant hazards, hazardous situations and events relevant to road headers, continuous miners and impact rippers, when they are used as intended and under the conditions foreseen by the manufacturer (see clause 4). This standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards. This European Standard is applicable to road headers, continuous miners and impact rippers used in tunnelling and underground mining

93.120**Lennujaamade ehitus**

Construction of airports

UUED STANDARDID**EVS-EN 61821:2003**

Hind 163,00

Identne IEC 61821:2002

ja identne EN 61821:2003

**Electrical installations for
lighting and beaconing of
aerodromes - Maintenance of
aeronautical ground lighting
constant current series circuits**

This International Standard applies to the maintenance of AGL constant current series circuits. This International Standard covers constant current series circuits for AGL installed at aerodromes and heliports; concentrates on providing the safety requirements for the maintenance of an AGL constant current series circuit. It is recognised that AGL constant current series circuits of different design characteristics and parameters are in existence; is mainly concerned with safety to persons by specifying the rules and fundamental principles for the maintenance of AGL constant current series circuits; is not intended to apply to AGL primary series circuits supplied directly from a mains constant voltage source; is not intended to be used for public street lighting, roadway lighting or any other installation requiring the use of constant current series circuits.

97.030

Elektrilised kodumasinad

Domestic electrical
appliances in general

UUED STANDARDID

EVS-EN 60335-2-88:2003

Hind 130,00

Identne IEC 60335-2-88:2002

ja identne EN 60335-2-88:2002

Safety of household and similar electrical appliances - Part 2: Particular requirements for humidifiers intended for use with heating, ventilation or air conditioning systems

This standard deals with the safety of electric humidifiers intended for use with heating, ventilation, or air-conditioning systems in household, commercial, and light industrial applications (and may include large stand-alone commercial equipment) which operate according to the evaporative or atomization system, water-injection, steam and the like, their rated voltage being not more than 250 V for single-phase appliances and 600 V for all other appliances.

97.040.20

**Pliidid, töölaud, ahjud
jms**

Cooking ranges, working
tables, ovens and similar
appliances

UUED STANDARDID

EVS-EN 60335-2-36:2003

Hind 170,00

Identne IEC 60335-2-36:2002

ja identne EN 60335-2-36:2002

Safety of household and similar electrical appliances - Part 2: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements

This standard deals with the safety of electrically operated cooking ranges, ovens, hobs, hob elements and similar appliances not intended for household use, their rated voltage being not more than 250 V for single phase appliances connected between one phase and neutral and 480 V for other appliances.

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 24832

Tähtaeg: 2003-06-01

Identne prEN 1860-3:2003

Appliances, solid fuels and firelighters for barbecuing - Part 3 : Firelighters for igniting solid fuels for use in barbecue appliances - Requirements and test methods

This European standard specifies the safety, performance, packaging and marking requirements including the test methods for firelighters used to light solid fuels in barbecue and grill appliances. The standard covers firelighters supplied as either solid, liquid, thickened liquid or gel formulations. However the use of highly flammable liquids (except in stabilised formulations) is specifically excluded from the scope of this standard as their use as barbecue firelighters is regarded as highly dangerous

prEVS 56102

Tähtaeg: 2003-06-01

Identne IEC 60335-2-38:2002

ja identne EN 60335-2-38:2003

Household and similar electrical appliances Safety Part 2-38: Particular requirements for commercial electric griddles and griddle grills

Deals with the safety of electrically operated commercial griddles and griddle grills not intended for household use. The rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral and 480 V for other appliances.

Appliances within the scope of this standard are typically used in restaurants, canteens, hospitals and commercial enterprises such as bakeries, butcheries, etc. The electrical part of appliances making use of other forms of energy is also within the scope of this standard

prEVS 56104

Tähtaeg: 2003-06-01

Identne IEC 60335-2-42:2002

ja identne EN 60335-2-42:2003

Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens

Deals with the safety of electrically operated commercial forced convection ovens, steam cookers, steam-convection ovens and, exclusive of any other use, steam generators, not intended for household use. The rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral and 480 V for other appliances. Appliances within the scope of this standard are typically used in restaurants, canteens, hospitals and commercial enterprises such as bakeries, butcheries, etc. The electrical part of appliances making use of other forms of energy is also within the scope of this standard

prEVS 56105

Tähtaeg: 2003-06-01

Identne IEC 60335-2-47:2002

ja identne EN 60335-2-47:2003

Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans

Deals with the safety of electrically operated commercial boiling pans not intended for household use. The rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances. Appliances which are within the scope of this standard are typically used in restaurants, canteens, hospitals and commercial enterprises such as bakeries, butcheries, etc. The electrical part of appliances making use of other forms of energy is also within the scope of this standard

97.040.50

Köögi väikevahendid

Small kitchen appliances

UUED STANDARDID

EVS-EN 60335-2-35:2003

Hind 0,00

Identne IEC 60335-2-35:2002

ja identne EN 60335-2-35:2002

Safety of household and similar electrical appliances - Part 2: Particular requirements for instantaneous water heaters

This standard deals with the safety of electric instantaneous water heaters for household and similar purposes and intended for heating water below boiling temperature, their rated voltage being not more than 250 V for single-phase

appliances and 480 V for other appliances. Note 1 - Instantaneous water heaters incorporating bare heating elements are within the scope of this standard.

EVS-EN 60335-2-37:2003

Hind 146,00

Identne IEC 60335-2-37:2002

ja identne EN 60335-2-37:2002

Safety of household and similar electrical appliances - Part 2: Particular requirements for commercial electric deep fat fryers

Deals with the safety of electrical air-cleaning appliances for household and similar purposes, whose rated voltages is not more than 250 V for single-phase appliances and 480 V for other appliances. Is to be used in conjunction with IEC 335-1 (third edition).

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56103

Tähtaeg: 2003-06-01

Identne IEC 60335-2-39:2002

ja identne EN 60335-2-39:2003

Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans

Deals with the safety of electrically operated commercial multi-purpose cooking pans not intended for household use. The rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral and 480 V for other appliances. Appliances within the scope of this standard are typically used in restaurants, canteens, hospitals, and commercial enterprises such as bakeries, butcheries, etc. The electrical part of appliances making use of other forms of energy is also within the scope of this standard

prEVS 56106

Tähtaeg: 2003-06-01

Identne IEC 60335-2-48:2002

ja identne EN 60335-2-48:2003

Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters

Deals with the safety of electrically operated commercial grillers and toasters not intended for household use. The rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances. Rotary or continuous grillers and toasters and similar appliances intended for grilling by radiant heat such as rotisseries, salamanders, etc. are within the scope of this standard. Appliances within the scope of this standard are typically used in restaurants, canteens, hospitals and commercial enterprises such as bakeries, butcheries, etc. The electrical part of appliances making use of other forms of energy is also within the scope of this standard

97.060

Pesumajade sisseseade

Laundry appliances

UUED STANDARDID

EVS-EN 60335-2-3:2003

Hind 126,00

Identne IEC 60335-2-3:2002+corr.:2002

ja identne EN 60335-2-3:2002

Safety of household and similar electrical appliances - Part 2: Particular requirements for electric irons

Deals with the safety of electric dry irons and steam irons, including those with a separate water reservoir or boiler having a capacity not exceeding 5 l, for household and similar purposes, their rated voltage being not more than 250 V.

97.100.10

Elektriga köetavad kütteseadmed

Electric heaters

UUED STANDARDID

EVS-EN 60335-2-96:2003

Hind 179,00

Identne IEC 60335-2-96:2002

ja identne EN 60335-2-96:2002

Safety of household and similar electrical appliances - Part 2-96: Particular requirements for flexible sheet heating elements for room heating

Deals with the safety of flexible sheet heating elements. These are incorporated into a building to heat rooms. The rated voltage is less than 250 V for single-phase installations and 480 V for other installations. For heated blankets and pads, see IEC 60335-2-17. For heated mats and foot warmers, see IEC 60335-2-81. This standard does not cover under-carpet heaters, nor flexible heating elements incorporated in other appliances.

97.120

Majapidamisautomaatika

Automatic controls for household use

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 56101

Tähtaeg: 2003-06-01

Identne ISO/FDIS 16484-2:2003

ja identne prEN ISO 16484-2:2003

Building automation and control systems (BACS) - Part 2: Hardware

This part of this European Standard specifies the requirements for the hardware to perform the tasks within a BACS. This part of this European Standard provides the terms, definitions and abbreviations for the understanding of Part 2 and Part 3

97.140

Mööbel

Furniture

KAVANDITE

ARVAMUSKÜSITLUS

prEVS 25943

Tähtaeg: 2003-06-01

Identne EN 527-3:2003

Office furniture - Work tables and desks - Part 3: Methods of test for the determination of the stability and the mechanical strength of the structure

This part of EN 527 specifies methods of test for the determination of the stability and the mechanical strength of the structure of office work tables and desks

97.150

**Mittetekstiilsed
põrandakatted**

Non-textile floor coverings

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 56154

Tähtaeg: 2003-06-01

Identne EN 649:1996/prA1:2003

Elastsed põrandakatted.

**Homogeneous ja heterogeneous
polüvinüülkloriidist
põrandakatted. Tehnilised
andmed**

This Standard specifies the characteristics of homogeneous and heterogeneous floor coverings, based on polyvinyl chloride and modifications thereof, supplied in either tile or roll form. To encourage the customer to make an informed choice, the standard includes a classification system (see EN 685) based on intensity of use, which shows where these floor coverings should give satisfactory service. It also specifies requirements for marking

97.160

Kodutekstiilid. Voodipesu

Home textiles. Linen

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 20563

Tähtaeg: 2003-06-01

Identne EN 1167:1996

**Suled ja udusuled -
Katsemeetod sulgede ja/või
udusulgedega täidetud tepitud
te klike mõõtmete
määramiseks**

This Standard describes a method for the determination of all sizes of ready-made quilts filled with feather and/or down

97.190

Seadmed lastele

Equipment for children

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 34866

Tähtaeg: 2003-06-01

Identne prEN 14036:2003

**Child use and care articles -
Baby bouncers - Safety
requirements and test methods**

This European Standard specifies the minimum safety requirements and test methods for vertically suspended baby bouncers for domestic use, up to a maximum weight of 12 kg for children who can support their head unaided

97.200.50

Mänguasjad

Toys

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 56078

Tähtaeg: 2003-06-01

Identne EN 71-4:1990/prA2:2003

**Mänguasjade ohutus. Osa 4:
Katsekomplektid
keemiakatseteks ja
samalaadseks tegevuseks**

The standard specifies requirements for the max. amount of certain substances and preparations used in experimental sets for chemistry and related activities. The standard applies to chemistry sets and supplementary sets. It also covers toys for experiments within the fields of mineralogy, biology, physics, microscopics and environmental sciences whenever they contain one or more chemical substances and/or preparations. It also specifies requirements for marking, description of contents and instructions for use.

97.220

Sportivarustus ja -rajatised

Sports equipment and facilities

**KAVANDITE
ARVAMUSKÜSITLUS**

prEVS 56086

Tähtaeg: 2003-06-01

Identne prEN 14619:2003

**Roller sports equipment - Kick
scooters - Safety requirements
and test methods**

This European Standard applies to kick scooters which can only be propelled by the muscular activity of a user with a body mass of more than 35 kg and less than 100 kg. It specifies safety requirements, test methods, marking and information supplied by the manufacturer to reduce the risk of injuries to both third parties and the user during normal use

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