



**VUOSIKERTOMUS**  
**2017**

Kemesta ry

## 1. Yleistä

Kemesta ry aloitti toimintansa 1.1.2013. Se toimii Suomen Standardisoimisliitto SFS:n toimialayhteisönä ja vastaa metsäteollisuuden ja kemian alojen standardisoinnista.

Kemesta ry:llä oli vuonna 2017 toimialayhteisövastuullaan 24 eurooppalaisen CEN:n ja 19 kansainvälisen ISO:n teknistä komiteaa ja 31 ISO:n alakomiteaa. Yhdestä CEN:n komiteasta toimialayhteisövastuu oli jaettu Öljy- ja biopolttoaineala ry:n ÖBA:n kanssa.

Kemesta ry:n toimisto sijaitsee Kemianteollisuus ry:n tiloissa. Yhdistys sai talous-, henkilöstö- ja tietotekniset palvelut Kemianteollisuus ry:ltä näiden organisaatioiden välisen sopimuksen mukaisesti.

## 2. Jäsenet

Kemesta ry:n jäseniä olivat koko vuoden 2017 aikana:

- Kemianteollisuus ry
- Kumiteollisuus ry
- Metsäteollisuus ry
- Väriteollisuusyhdistys ry

Kumiteollisuus ry hyväksyttiin Kemesta ry:n jäseneksi vuoden 2017 alusta lähtien.

## 3. Hallinto

Kemesta ry:n hallitukseen ovat valittu vuosiksi 2017 - 2018 seuraavat henkilöt (varajäsen suluissa):

- Toimitusjohtaja Timo Leppä, Kemianteollisuus ry  
(Maija Pohjakallio, Kemianteollisuus ry)
- innovaatioasioiden päällikkö Alina Ruonala-Lindgren, Metsäteollisuus ry  
(Johtaja Jouni Punnonen 1.1.2017 - 13.9.2017 ja Maarit Lindström 13.9.2017 - 31.12.2018, Metsäteollisuus ry)
- Toimitusjohtaja Juha Pyötsiä 1.1 - 13.9.2017 ja Toimitusjohtaja Eliisa Irpola 13.9.2017 - 31.12.2018, Väriteollisuusyhdistys ry  
(Eliisa Irpola 1.1.2017 - 13.9.2017, Alexandra Peth 13.9.2017 - 31.12.2018 Kemianteollisuus ry)

Hallituksen puheenjohtajana toimi Timo Leppä ja varapuheenjohtajana Alina Ruonala-Lindgren. Hallitus piti vuoden aikana neljä kokousta: 1.3., 23.5., 13.9. ja 30.11.

Kemesta ry:n sääntömääräinen vuosikokous pidettiin 13.9.2017.

## 4. Standardisointitoiminta

Kemesta ry:n toimialayhteisövastuulla oli vuonna 2017 seuraavat CEN:n ja ISO:n tekniset komiteat:

- CEN/CLC/BT JWG 11 Sustainable chemicals
- CEN/CLC/TC 6 Hydrogen in energy systems
- CEN/TC 23 Transportable gas cylinders
- CEN/TC 137 Assessment of workplace exposure to chemical and biological agents
- CEN/TC 139 Paints and varnishes

- CEN/TC 172 Pulp, paper and board
  - CEN/TC 193 Adhesives
  - CEN/TC 207 Furniture
  - CEN/TC 208 Elastomeric seals for joints in pipework and pipelines
  - CEN/TC 212 Fireworks
  - CEN/TC 218 Rubber and plastics hoses and hose assemblies
  - CEN/TC 233 Biotechnology (nukkuva komitea)
  - CEN/TC 249 Plastics
  - CEN/TC 260 Fertilizers and liming materials
  - CEN/TC 276 Surface active agents
  - CEN/TC 298 Pigments and extenders
  - CEN/TC 321 Explosives for civil uses
  - CEN/TC 335 Solid biofuels
  - CEN/TC 360 Coating systems for chemical apparatus and plants against corrosion
  - CEN/TC 364 High Chairs
  - CEN/TC 383 Sustainably produced biomass for energy applications (*yhteisvastuu Kemesta ja ÖBA*)
  - CEN/TC 386 Photocatalysis
  - CEN/TC 392 Cosmetics
  - CEN/TC 411 Bio-based products
  - CEN/TC 454 Algae and algae products
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- ISO/TC 6 Paper, board and pulps
  - ISO/TC 31 Tyres, rims and valves
  - ISO/TC 35 Paints and varnishes
  - ISO/TC 45 Rubber and rubber products
  - ISO/TC 47 Chemistry
  - ISO/TC 58 Gas cylinders
  - ISO/TC 61 Plastics
  - ISO/TC 91 Surface active agents
  - ISO/TC 134 Fertilizers and soil conditioners
  - ISO/TC 136 Furniture
  - ISO/TC 158 Analysis of gases
  - ISO/TC 217 Cosmetics
  - ISO/TC 238 Solid biofuels
  - ISO/TC 255 Biogas
  - ISO/TC 256 Pigments, dyestuffs and extenders
  - ISO/TC 264 Fireworks
  - ISO/TC 266 Biomimetics
  - ISO/TC 276 Biotechnology
  - ISO/PC 287 Chain of custody of wood and woody-based products

Komiteat ovat julkaisseet yhteensä 3971 standardia, joista 329 standardia (liite 1) vuoden 2017 aikana. Komiteoiden työalueilta kumottiin yhteensä 22 EN/ISO standardia (liite 2). Työaiheita on ollut käynnissä yhteensä 1200 kpl ja vuonna 2017 on vastattu vastuiden mukaisesti lähes 1500 kyselyyn/lausuntoon/äänestykseen. Lisäksi Kemesta ry:n vastuulla on 251 käännettyä SFS standardia ja 4 käsikirjaa, joiden ajantasaisuus on käyty läpi kansallisissa standardisointikomiteoissa. Kemesta ry

kumosi vanhentuneina yhteensä 7 SFS-standardia (liite 3). Standardisointialueista aktiivisimpia ovat olleet kumi-, maali ja muovialueet.

Kemesta ry:n standardisointityö organisoitu kansallisiin standardisointikomiteoihin, joita toimi vuonna 2017 kaikkiaan kuusitoista:

- Biomassan kestävyyskriteerit (*yhteisvastuu ÖBA:n kanssa*)
- Biopohjaiset tuotteet
- Bioteknologia
- Kalusteet
- Kiinteät biopolttoaineet
- Kuljetettavat kaasusäiliöt
- Kumi (sekä työryhmä "Nastarenkaiden yliajotesti")
- Lannoitteet ja kalkitusaineet
- Liimat
- Maalit ja lakat
- Muovit
- Paperi, kartonki ja sellu
- Puu- ja puupohjaisten tuotteiden alkuperä
- Räjähdeet
- Työperäinen altistuminen
- Vety ja kaasujen analytiikka

Kemesta ry:n kolmannen toimintavuoden 2017 lopussa kansallisten standardisointikomiteoiden 117 asiantuntijaa (118/2016) jakautuivat seuraaviin sidosryhmiin:

- |                                          |      |
|------------------------------------------|------|
| - Teollisuus ja kauppa (Elinkeinoelämä): | 55 % |
| - PK-sektori:                            | 14 % |
| - Viranomaiset:                          | 9 %  |
| - Yhdistykset ja tutkimuslaitokset:      | 14 % |
| - Standardien testaajat/soveltajat:      | 8 %  |

Kaikki kansalliset standardisointikomiteat ovat liitetty ISO:n serverille (NTC-sivustot), mistä kaikki standardisointityöhön liittyvät dokumentit jaetaan kansallisten komiteoiden jäsenille. Sivustoille on viety myös kansallista materiaalia, kuten kansallisten kokousten esityslistat ja pöytäkirjat sekä standardiehdotuksiin saadut kommentit. Niillä alueilla, joilla kansallista komiteaa ei ole, ovat erilliset lausuntopyyntöjen jakelulistat. Lisäksi kaikki Kemesta ry:n avoimet lausuntopyynnöt ovat nähtävillä ja kommentoitavissa SFS:n lausuntopyyntöpalvelussa.

Kansalliset standardisointikomiteat pitivät vuoden 2017 kuluessa yhteensä 42 kokousta. Lisäksi järjestettiin yksi kansallisten komiteoiden puheenjohtajien ja yksi kansallisten komiteoiden jäsenten vuosiseminaari marraskuussa 2017.

## 5. Kansainvälinen osallistuminen

Kemesta ry:n edustajat sekä kansallisten komiteoiden jäsenet osallistuivat yhteensä 15 kokoukseen ulkomailla SFS:n kautta kanavoidun TAY-avustuksen turvin seuraavasti:

Kokous	Aika	Paikka
CEN/TC 260/WG 8	26.1.2017	Bryssel
CEN/CLC/BT/JWG 11,	13.3.2017	Bryssel
CEN/TC 383	14.3.2017	Bryssel
CEN/TC 386	16.3.2017	Bryssel
CEN/TC 249/WG 13	28.3.2017	Berliini
CEN/TC 411	3.5.2017	Delft
CEN/TC 218 ja WG 2	9-11.5.2017	Milano
ISO/TC 35	8-12.5.2017	Delft
ISO/TC 276 ja WG 3	10-13.5.2017	Soul
ISO/TC 31 + SC:t	16-19.5.2017	Seattle
CEN/CLC/TC 6	19.5.2017	Bryssel
ISO/TC 136	6-9.6.2017	Chicago
CEN/TC 193/SC 1	20.6.2017	Berliini
ISO/TC 31/WG 10	25-26.9.2017	Marseilles
ISO/TC 35/WG 1	26-27.6.2017	Essen

Lisäksi useat kansallisten komiteoiden jäsenet ja Kemesta ry:n asiamies osallistuivat ulkomaisiin kokouksiin työnantajansa tai Kemesta ry:n kustantamina.

## 6. Kansainväliset sihteeristöt

Kemesta ry ylläpiti yhtä kansainvälistä sihteeristöä, joiden hoitamiseen saatiin SFS:ltä TAY-avustusta vuonna 2017:

- ISO/TC238/WG2 Fuel specifications and classes

Työryhmien puheenjohtajana toimii Eija Alakangas (VTT) ja sihteerinä Jouni Valtanen (Kemesta ry). ISO/TC 238/WG 2 standardit implementoidaan EN-standardeiksi Wienin sopimuksen mukaisesti. WG 2 laatii kiinteiden biopolttoaineiden kansainväliset luokitusstandardit siten, että standardit soveltuvat mahdollisimman laajalle joukolla kansainvälisiä biopolttoaineita, sekä edistävät bioenergian hyödyntämistä ja biopolttoaineiden kauppaa.

WG 2 on julkaisut standardisarjasta SFS-EN ISO 17225 osat 1 - 8 vuosina 2014 - 2016. Standardit kattavat kiinteiden biopolttoaineiden (puupelletit, puubriketit, hake, pilke, ei-puuperäisistä raaka-aineista valmistetut pelletit sekä lämpökäsitellyn biomassan) laatuluokitukseen liittyvät tuotestandardit sekä yleisen luokitusstandardin. Standardit on käännetty myös suomenkielille ja osat 1 - 7 sisältyvät SFS käsikirjaan (SFS-KK 35-1). Työryhmä ei pitänyt vuonna 2017 fyysistä kokousta ISO/TC 238 Dublinin kokousten yhteydessä. WG 2 sen sijaan piti Dublinissa toukokuussa 2017 epävirallisia palavereja eri maiden delegaatioiden kesken uuden työaiheen teollisuuskäyttöön tarkoitettun luokitellun puuhakkeen ja murskeen valmistelusta. Puheenjohtajisto piti myös omia kansallisia palavereja vuoden 2017 aikana uuden työaiheen valmistelusta sekä teollisuushakkeen käytön kartoittamisesta Euroopassa ja muualla maailmassa. WG 2 puheenjohtajisto on laatinut standardiehdotuksesta ensimmäinen työversion ja toimittanut sen Ranskalle, joka on lähettänyt sen ISO/TC 238 sihteeristölle uuteen työaiheäänestykseen. Työaihe hyväksyttiin vuoden 2018 alussa.

## 6. Standardien kääntäminen suomeksi

Seuraavat standardit käännettiin vuonna 2017 suomeksi:

- SFS-EN ISO 18134-2:2017 Kiinteät biopolttoaineet. Kosteuspitoisuuden määrittäminen. Uunikuivausmenetelmä. Osa 2: Kokonaiskosteus. Yksinkertaistettu menetelmä
- SFS-EN ISO 18135:2017 Kiinteät biopolttoaineet. Näytteenotto
- SFS-EN ISO 14780:2017 Kiinteät biopolttoaineet. Näytteen esikäsittely
- SFS-EN ISO 18846:2017 Kiinteät biopolttoaineet. Pellettien hinoaineksen määrittäminen
- SFS-EN ISO 294-1:2017 Muovit. Kestomuovisten koekappaleiden ruiskuvalu. Osa 1: Yleiset periaatteet sekä yleiskoekappaleiden ja koetankojen valu
- SFS-EN ISO 11469:2016 Muovit. Muovituotteiden tunnistaminen ja merkintä
- FprEN 681-1 Elastomeeriset tiivisteet. Vesi- ja viemäriputkistojen tiivisteiden materiaalivaatimukset. Osa 1: Vulkanoitu kumi
- SFS-EN ISO 2812-1:2017 Maalit ja lakat. Nesteenkestävyyden määrittäminen. Osa 1: Uputuskoe, jossa käytetään muita nesteitä kuin vettä
- SFS-EN ISO 2812-4:2017 Osa 2: Pisaramenetelmät
- SFS-EN ISO 6270-1:2018 Kosteudenkestävyyden määrittäminen. Osa 1: Kondensoituminen (yksipuoleinen altistuminen)
- SFS-EN ISO 6270-2:2018 Osa 2: Kondensoituminen (sisätilassa altistuminen lämmitetyllä vesisäiliöllä)
- SFS-EN ISO 8502-2:2017 Teräspintojen esikäsittely ennen pinnoitusta maalilla tai vastaavilla tuotteilla. Testit pinnan puhtauden arvioimiseksi. Osa 2: Kloridin laboratoriomäärittäminen puhdistetuilta pinnoilta
- SFS-EN ISO 8502-3:2017 Osa 3: Pölyn arviointi maalausta varten esikäsitellyiltä teräspinnoilta (teippi-menetelmä)
- SFS-EN ISO 8502-4:2017 Osa 4: Ohjeita kondensaation syntymisen todennäköisyyden arvioimiseksi ennen maalin levitystä
- SFS-EN ISO 12944-1:2017 Teräsrakenteiden korroosionesto suojamaaliyhdistelmillä - Yleistä
- SFS-EN ISO 12944-1:2017 Osa 2: Ympäristöolosuhteiden luokittelu
- SFS-EN ISO 12944-3:2017 Osa 3: Rakenteen suunniteluun liittyviä näkökohtia
- SFS-EN ISO 12944-4:2017 Osa 4: Pintatyypit ja pinnan esikäsittely
- SFS-EN ISO 12944-7:2017 Osa 7: Maalaustyön toteutus ja valvonta
- SFS-EN ISO 12944-8:2017 Osa 8: Spesifikaatioiden laatiminen uudisrakenteille ja kunnossapidolle

## 7. Henkilöstö

Kemesta ry:n asiamiehenä vuonna 2017 toimi FL Jouni Valtanen. Kemesta ry:n standardisointiasistenttina toimi merkantti Anita Koponen.

**Liitteet:** Liite 1: Kemesta ry:n toimialueen julkaistut SFS, EN, ISO standardit vuonna 2017  
Liite 2: Kemesta ry:n toimialueen kumotut EN/ISO-standardit vuonna 2017  
Liite 3: Kemesta ry:n toimialueen kumotut SFS-standardit vuonna 2017

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## **Liite 1: Kemesta ry:n toimialueen julkaistut SFS, EN ja ISO standardit vuonna 2017**

### **Biopohjaiset tuotteet**

CEN/TC 411 Bio-based products

- SFS-EN 16640:2017 Bio-based products - Determination of the bio based carbon content using the radiocarbon method
- SFS-EN 16935:2017 Bio-based products - Requirements for Business-to-Consumer communication and claims
- SFS-EN 16640:2017/AC:2017 Bio-based products - Determination of the bio based carbon content using the radiocarbon method
- SFS-EN 16766:2017 Bio-based solvents - Requirements and test methods

### **Biomassan kestävyyskriteerit**

CEN/TC 383 Sustainably produced biomass for energy applications

- SFS-EN 16214-3:2012 + A1:2017 Sustainability criteria for the production of biofuels and bioliquids for energy applications - Principles, criteria, indicators and verifiers - Part 3: Biodiversity and environmental aspects related to nature protection purposes

### **Fotokatalyysi**

CEN/TC 386 Photocatalysis

- SFS-EN 16845-1:2017 Photocatalysis - Anti-soiling chemical activity using adsorbed organics under solid/solid conditions - Part 1: Dyes on porous surfaces
- SFS-EN 16846-1:2017 Photocatalysis - Measurement of efficiency of photocatalytic devices used for the elimination of VOC and odour in indoor air in active mode - Part 1: Batch mode test method with a closed chamber

### **Kalusteet**

CEN/TC 207, ISO/TC 136 Furniture sekä CEN/TC 364 High chairs

- SFS-EN 581-1:2017 Outdoor furniture - Seating and tables for camping, domestic and contract use - Part 1: General safety requirements
- SFS-EN 581-3:2017 Part 3: Mechanical safety requirements and test methods for tables
- SFS-EN 716-1:2017 Furniture - Children's cots and folding cots for domestic use - Part 1: Safety requirements
- SFS-EN 716-2:2017 Part 2: Test methods
- SFS-EN 14988:2017 Children's high chairs - Requirements and test methods
- SFS-EN 16121:2013+A1:2017 Non-domestic storage furniture - Requirements for safety, strength, durability and stability
- SFS-EN 16890:2017 Children's furniture - Mattresses for cots and cribs - Safety requirements and test methods
- SFS-EN 16955:2017 Hardware for furniture - Tapered pressure tubes for self-supporting gas springs for the height adjustment of seating - Test methods and requirements for strength and durability
- ISO 24496:2017 Office furniture - Office work chairs - Methods for the determination of dimensions

### **Kiinteät biopolttoaineet**

CEN/TC 335 ja ISO/TC 238 Solid biofuels:

- SFS-EN ISO 14780:2017 Solid biofuels - Sample preparation (ISO 14780:2017)
- SFS-EN ISO 18125:2017 Solid biofuels - Determination of calorific value (ISO 18125:2017)
- SFS-EN ISO 18134-2:2017 Solid biofuels - Determination of moisture content - Oven dry method - Part 2: Total moisture - Simplified method (ISO 18134-2:2017)
- SFS-EN ISO 18135:2017 Solid Biofuels - Sampling (ISO 18135:2017)
- SFS-EN ISO 19743:2017 Solid biofuels - Determination of content of heavy extraneous materials larger than 3,15 mm (ISO 19743:2017)

## **Kosmetiikka**

### CEN/TC 392 ja ISO/TC 217 Cosmetics

- SFS-EN 16956:2017 Cosmetics - Analytical methods. HPLC/UV method for the identification and assay of hydroquinone, ethers of hydroquinone and corticosteroids in skin whitening cosmetic products
- SFS-EN ISO 16212:2011 Cosmetics - Microbiology - Enumeration of yeast and mould (ISO 16212:2017)
- SFS-EN ISO 18415:2017 Cosmetics - Microbiology - Detection of specified and non-specified microorganisms (ISO 18415:2007)
- SFS-EN ISO 21148:2017 Cosmetics - Microbiology - General instructions for microbiological examination (ISO 21148:2005)
- SFS-EN ISO 21149:2017 Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria (ISO 21149:2006)
- SFS-EN ISO 29621:2017 Cosmetics - Microbiology - Guidelines for the risk assessment and identification of microbiologically low-risk products (ISO 29621:2017)
- ISO 16128-2:2017 Cosmetics - Guidelines on technical definitions and criteria for natural and organic cosmetic ingredients - Part 2: Criteria for ingredients and products
- ISO/TR 18818:2017 Cosmetics - Analytical method - Detection and quantitative determination of Diethanolamine (DEA) by GC/MS

## **Kuljetettavat kaasusäiliöt**

### CEN/TC 23 Transportable gas cylinders ja ISO/TC 58 Gas cylinders

- SFS-EN 13807:2017 Transportable gas cylinders - Battery vehicles and multiple-element gas containers (MEGCs) - Design, manufacture, identification and testing
- SFS-EN ISO 10156:2017 Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets (ISO 10156:2017)
- SFS-EN ISO 10297:2014/A1:2017 Gas cylinders - Cylinder valves - Specification and type testing (ISO 10297:2014/Amd 1:2017)
- SFS-EN ISO 11114-1:2012/A1:2017 Gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 1: Metallic materials - Amendment 1 (ISO 11114-1:2012/Amd 1:2017)
- SFS-EN ISO 11114-4:2017 Part 4: Test methods for selecting metallic materials resistant to hydrogen embrittlement (ISO 11114-4:2017)
- SFS-EN ISO 11363-2:2017 Gas cylinders - 17E and 25E taper threads for connection of valves to gas cylinders - Part 2: Inspection gauges (ISO 11363-2:2017)
- SFS-EN ISO 14246:2014/A1:2017 Gas cylinders - Cylinder valves - Manufacturing tests and examinations (ISO 14246:2014/Amd 1:2017)
- SFS-EN ISO 15996:2017 Gas cylinders - Residual pressure valves - General requirements and type testing (ISO 15996:2017)
- SFS-EN ISO 17879:2017 Gas cylinders - Self-closing cylinder valves - Specification and type testing (ISO 17879:2017)
- ISO 5145:2017 Cylinder valve outlets for gases and gas mixtures -- Selection and dimensioning
- ISO 11363-2:2017 Part 2: Inspection gauges
- ISO/TR 13086-2:2017 Gas cylinders - Guidance for design of composite cylinders - Part 2: Bonfire test issues
- ISO 13338:2017 Gas cylinders - Gases and gas mixtures - Determination of tissue corrosiveness for the selection of cylinder valve outlets
- ISO/TS 15453:2017 Gas cylinders - Seamless steel and aluminium-alloy gas cylinders - Evaluation of existing gas cylinders and consideration of their safe use in other jurisdictions
- ISO/TR 19811:2017 Gas cylinders - Service life testing for cylinders and tubes of composite construction

## **Kumi ja renkaat**

### CEN/TC 218 Rubber and plastics hoses and hose assemblies ja ISO/TC 45 Rubber and rubber products

- SFS-EN 1762:2017 Rubber hoses and hose assemblies for liquefied petroleum gas, LPG (liquid or gaseous phase), and natural gas up to 25 bar (2,5 MPa) - Specification



- SFS-EN 16820:2017 Rubber and plastics hoses and hose assemblies for use in the pharmaceutical and biotechnological industry - Bonded elastomeric hoses with or without a lining
- SFS-EN 16821:2017 Rubber and plastics hoses and hose assemblies for use in the pharmaceutical and biotechnological industry - Silicone rubber hoses
- SFS-EN ISO 1825:2017 Rubber hoses and hose assemblies for aircraft ground fuelling and defuelling - Specification (ISO 1825:2017)
- SFS-EN ISO 6803:2017 Rubber or plastics hoses and hose assemblies - Hydraulic-pressure impulse test without flexing (ISO 6803:2017)
- SFS-EN ISO 6806:2017 Rubber hoses and hose assemblies for use in oil burners - Specification (ISO 6806:2017)
- SFS-EN ISO 6134:2017 Rubber hoses and hose assemblies for saturated steam - Specification (ISO 6134:2017)
- SFS-EN ISO 8033:2017 Rubber and plastics hoses - Determination of adhesion between components (ISO 8033:2016)
- ISO 36:2017 Rubber, vulcanized or thermoplastic - Determination of adhesion to textile fabrics
- ISO 37:2017 Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties
- ISO 132:2017 Rubber, vulcanized or thermoplastic - Determination of flex cracking and crack growth (De Mattia)
- ISO/TS 289-4:2017 Rubber, unvulcanized - Determinations using a shearing-disc viscometer - Part 4: Determination of the Mooney stress-relaxation rate
- ISO 812:2017 Rubber, vulcanized or thermoplastic - Determination of low-temperature brittleness
- ISO 814:2017 Rubber, vulcanized or thermoplastic - Determination of adhesion to metal - Two-plate method
- ISO 1431-3:2017 Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Part 3: Reference and alternative methods for determining the ozone concentration in laboratory test chambers
- ISO 1436:2017 Rubber hoses and hose assemblies - Wire-braid-reinforced hydraulic types for oil-based or water-based fluids - Specification
- ISO 1437:2017 Rubber compounding ingredients - Carbon black - Determination of sieve residue
- ISO 1795:2017 Rubber, raw natural and raw synthetic - Sampling and further preparative procedures
- ISO 2004:2017 Natural rubber latex concentrate - Centrifuged or creamed, ammonia-preserved types - Specifications
- ISO 2321:2017 Rubber threads - Methods of test
- ISO 2411:2017 Rubber- or plastics-coated fabrics - Determination of coating adhesion
- ISO 2878:2017 Rubber, vulcanized or thermoplastic - Antistatic and conductive products -- Determination of electrical resistance
- ISO 2930:2017 Rubber, raw natural - Determination of plasticity retention index (PRI)
- ISO 3862:2017 Rubber hoses and hose assemblies - Rubber-covered spiral-wire-reinforced hydraulic types for oil-based or water-based fluids - Specification
- ISO 4079:2017 Rubber hoses and hose assemblies - Textile-reinforced hydraulic types for oil-based or water-based fluids - Specification
- ISO 4649:2017 Rubber, vulcanized or thermoplastic - Determination of abrasion resistance using a rotating cylindrical drum device
- ISO 4662:2017 Rubber, vulcanized or thermoplastic - Determination of rebound resilience
- ISO 4675:2017 Rubber- or plastics-coated fabrics - Low-temperature bend test
- ISO 5435:2017 Rubber compounding ingredients - Carbon black - Determination of tinting strength
- ISO 5600:2017 Rubber - Determination of adhesion to rigid materials using conical shaped parts
- ISO 5603:2017 Rubber, vulcanized - Determination of adhesion to wire cord

- ISO 6179:2017 Rubber, vulcanized or thermoplastic - Rubber sheets and rubber-coated fabrics - Determination of transmission rate of volatile liquids (gravimetric technique)
- ISO 6472:2017 Rubber compounding ingredients - Abbreviated terms
- ISO 6943:2017 Rubber, vulcanized - Determination of tension fatigue
- ISO 7267-1:2017 Rubber-covered rollers - Determination of apparent hardness - Part 1: IRHD method
- ISO 7267-3:2017 Part 3: Pusey and Jones method
- ISO 7743:2017 Rubber, vulcanized or thermoplastic - Determination of compression stress-strain properties
- ISO 7781:2017 Styrene-butadiene rubber, raw - Determination of soap and organic-acid content
- ISO 8028:2017 Rubber and/or plastics hoses and hose assemblies for airless paint spraying - Specification
- ISO 9298:2017 Rubber compounding ingredients - Zinc oxide - Test methods
- ISO 10619-1:2017 Rubber and plastics hoses and tubing - Measurement of flexibility and stiffness - Part 1: Bending tests at ambient temperature
- ISO 10619-2:2017 Part 2: Bending tests at sub-ambient temperatures
- ISO 10638:2017 Rubber - Identification of antidegradants by gas chromatography/mass spectrometry
- ISO 10960:2017 Rubber and plastics hoses - Assessment of ozone resistance under dynamic conditions
- ISO 11236:2017 Rubber compounding ingredients - p-Phenylenediamine antidegradants (PPDs) - Test methods
- ISO 11237:2017 Rubber hoses and hose assemblies - Compact wire-braid-reinforced hydraulic types for oil-based or water-based fluids - Specification
- ISO 11424:2017 Rubber hoses and tubing for air and vacuum systems for internal-combustion engines - Specification
- ISO 11852:2017 Rubber - Determination of magnesium content of field natural rubber latex by titration
- ISO 12493:2017 Rubber, vulcanized - Determination of stress in tension upon heating
- ISO 15825:2017 Rubber compounding ingredients - Carbon black - Determination of aggregate size distribution by disc centrifuge photosedimentometry
- ISO 16301:2017 Rubber and plastics hoses and hose assemblies, wire- or textile-reinforced, for manually operated hydraulic jacks - Specification
- ISO 17717:2017 Meteorological balloons - Specification
- ISO 19385:2017 Rubber and plastics hoses and hose assemblies, wire- or textile-reinforced, for water jetting or water blasting applications - Specification
- ISO 19718:2017 Rubber and plastics hoses and hose assemblies, wire- or textile- reinforced, for hydraulic power units used in heavy duty hydraulic tool applications - Specification
- ISO 19846:2017 Reclaimed rubber - Coding and classification system
- ISO 19983:2017 Rubber - Determination of precision of test methods
- ISO 19984-1:2017 Rubber and rubber products - Determination of biobased content - Part 1: General principles and calculation methods using the formulation of the rubber compound
- ISO 19984-2:2017 Part 2: Biobased carbon content
- ISO 19984-3:2017 Part 3: Biobased mass content
- ISO 20057:2017 Rubber household gloves - General requirements and test methods
- ISO 20058:2017 General purpose rubber thread - Specification
- ISO 20299-2:2017 Film for wrapping rubber bales - Part 2: Natural rubber
- ISO 20437:2017 Natural rubber latex cleanroom gloves - Specification
- ISO 20851:2017 Synthetic rubber latex - Examination for microorganisms
- ISO/TR 21275:2017 Rubber - Comprehensive review of the composition and nature of process fumes in the rubber industry
- ISO/TS 21396:2017 Rubber - Determination of mass concentration of tire and road wear particles (TRWP) in soil and sediments - Pyrolysis-GC/MS method
- ISO/TS 21522:2017 Rubber process fumes components - Quantitative test methods

- ISO 22768:2017 Rubber, raw - Determination of the glass transition temperature by differential scanning calorimetry (DSC)
- ISO 23233:2016/Amd 1:2017 Rubber, vulcanized or thermoplastic - Determination of resistance to abrasion using a driven, vertical abrasive disc - Amendment 1
- ISO 23297:2017 Thermoplastics hoses and hose assemblies - Wire or synthetic yarn reinforced single-pressure types for hydraulic applications - Specification

#### ISO/TC 31 Tyres, rims and valves

- ISO 4223-1:2017 Definitions of some terms used in the tyre industry - Part 1: Pneumatic tyres
- ISO 4250-1:2017 Earth-mover tyres and rims - Part 1: Tyre designation and dimensions
- ISO 4250-2:2017 Part 2: Loads and inflation pressures
- ISO 4251-1:2017 Tyres (ply rating marked series) and rims for agricultural tractors and machines - Part 1: Tyre designation and dimensions, and approved rim contours
- ISO 4251-2:2017 Part 2: Tyre load ratings
- ISO 16392:2017 Tyres - Electrical resistance - Test method for measuring electrical resistance of tyres on a test rig
- ISO 18804:2017 Rims for agricultural, forestry and construction machines
- ISO 18805:2017 Tyre classification - Agricultural, forestry and construction machines
- ISO 18885-1:2017 TPMS snap-in valves - Part 1: Identification
- ISO 19940:2017 Tyre stiffness index testing procedure for passenger car extended mobility and run flat tyres
- ISO 29802:2017 All-terrain (AT) tyres and rims - Symbol marked pneumatic tyres on 5 degree tapered rims - Designation, dimension, marking and load ratings

#### Lannoitteet ja kalkitusaineet

##### CEN/TC 260 Fertilizers and liming materials ja ISO/TC 134 Fertilizers and soil conditioners

- SFS-EN 13368-2:2017 Fertilizers - Determination of chelating agents in fertilizers by chromatography - Part 2: Determination of Fe chelated by o,o-EDDHA, o,o-EDDHMA and HBED by ion pair chromatography
- SFS-EN 13368-3:2017 Part 3: Determination of [S,S]-EDDS by ion pair chromatography
- SFS-EN 14069:2017 Liming materials - Denominations, specifications and labelling
- SFS-EN 15961:2017 Fertilizers - Extraction of water-soluble calcium, magnesium, sodium and sulfur in the form of sulfates
- SFS-EN 16317:2013 + A1:2017 Fertilizers - Determination of trace elements - Determination of arsenic by inductively coupled plasma-atomic emission spectrometry (ICP-AES) after aqua regia dissolution
- SFS-EN 16320:2013 + A1:2017 Fertilizers - Determination of trace elements - Determination of mercury by vapour generation (VG) after aqua regia dissolution
- CEN/TR 17040:2017 Sampling of Fertilizers and liming materials - Report on experimental work of static heap sampling procedures
- CEN/TS 17060:2017 Fertilizers - Determination of molybdenum in concentrations > 10 % using a gravimetric method with 8-hydroxyquinoline
- ISO 19670:2017 Fertilizers and soil conditioners - Urea aldehyde slow release fertilizer - General requirements
- ISO 19746:2017 Determination of urea content in urea-based fertilizers by high performance liquid chromatography (HPLC)
- ISO 20702:2017 Fertilizers and soil conditioners - Determination of microamounts of inorganic anions in fertilizers by ion chromatography
- ISO 21263:2017 Slow-release fertilizers - Determination of the release of the nutrients - Method for coated fertilizers

#### Liimat

##### CEN/TC 193 Adhesives ja ISO/TC 61/SC 11/WG 5 Polymeric adhesives

- SFS-EN 301:2017 Adhesives, phenolic and aminoplastic, for load-bearing timber structures - Classification and performance requirements
- SFS-EN 302-2:2017 Adhesives for load-bearing timber structures - Test methods - Part 2: Determination of resistance to delamination

- SFS-EN 302-3:2017 Part 3: Determination of the effect of acid damage to wood fibres by temperature and humidity cycling on the transverse tensile strength
- SFS-EN 302-8:2017 Part 8: Static load test of multiple bond line specimens in compression shear
- SFS-EN 15416-1:2017 Adhesives for load bearing timber structures other than phenolic and aminoplastic - Test methods - Part 1: Long-term tension load test perpendicular to the bond line at varying climate conditions with specimens perpendicular to the glue line (Glass house test)
- SFS-EN 15416-3:2017 Part 3: Creep deformation test at cyclic climate conditions with specimens loaded in bending shear
- SFS-EN 15416-4:2017 Part 4: Determination of open assembly time for one component polyurethane adhesives
- SFS-EN 15416-5:2017 Part 5: Determination of conventional pressing time
- SFS-EN 15425:2017 Adhesives - One component polyurethane for load bearing timber structures - Classification and performance requirements
- ISO 6237:2017 Adhesives - Wood-to-wood adhesive bonds -- Determination of shear strength by tensile loading
- ISO 19209:2017 Adhesives - Classification of thermoplastic wood adhesives for non-structural applications
- ISO 19210:2017 Adhesives - Wood adhesives for non-structural applications -- Determination of tensile shear strength of lap joints

### **Maalit ja lakat**

CEN/TC 139 ja ISO/TC 35 Paints and varnishes sekä CEN/TC 298 Pigments and extenders

- SFS-EN 13523-1:2017 Coil coated metals - Test methods - Part 1: Film thickness
- SFS-EN 13523-8:2017 Part 8: Resistance to salt spray (fog)
- SFS-EN 13523-10:2017 Part 10: Resistance to fluorescent UV radiation and water condensation
- SFS-EN 13523-12:2017 Part 12: Resistance to scratching
- SFS-EN 13523-21:2017 Part 21: Evaluation of outdoor exposed panels
- SFS-EN 13523-22:2017 Part 22: Colour difference - Visual comparison
- SFS-EN 13523-24:2017 Part 24: Resistance to blocking and pressure marking
- SFS-EN 13523-27:2017 Part 27: Resistance to humid poultice (Cataplasm test)
- SFS-EN 13523-29:2017 Part 29: Resistance to environmental soiling (Dirt pick-up and striping)
- SFS-EN ISO 2812-1:2017 Paints and varnishes - Determination of resistance to liquids - Part 1: Immersion in liquids other than water (ISO 2812-1:2017)
- SFS-EN ISO 2812-4:2017 Paints and varnishes - Determination of resistance to liquids - Part 4: Spotting methods (ISO 2812-4:2017)
- SFS-EN ISO 8502-2:2017 Preparation of steel substrates before application of paints and related products - Tests for the assessment of surface cleanliness - Part 2: Laboratory determination of chloride on cleaned surfaces (ISO 8502-2:2017)
- SFS-EN ISO 8502-3:2017 Part 3: Assessment of dust on steel surfaces prepared for painting (pressure-sensitive tape method) (ISO 8502-3:2017)
- SFS-EN ISO 8502-4:2017 Part 4: Guidance on the estimation of the probability of condensation prior to paint application (ISO 8502-4:2017)
- SFS-EN ISO 8503-5:2017 Preparation of steel substrates before application of paints and related products - Surface roughness characteristics of blast-cleaned steel substrates - Part 5: Replica tape method for the determination of the surface profile (ISO 8503-5:2017)
- SFS-EN ISO 11126-10:2017 Preparation of steel substrates before application of paints and related products - Specifications for non-metallic blast-cleaning abrasives - Part 10: Almandite garnet (ISO 11126-10:2017)
- SFS-EN ISO 11997-1:2017 Paints and varnishes - Determination of resistance to cyclic corrosion conditions - Part 1: Wet (salt fog)/dry/humidity (ISO 11997-1:2017)
- SFS-EN ISO 12944-1:2017 Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 1: General introduction (ISO 12944-1:2017)
- SFS-EN ISO 12944-2:2017 Part 2: Classification of environments (ISO 12944-2:2017)
- SFS-EN ISO 12944-3:2017 Part 3: Design considerations (ISO 12944-3:2017)

- SFS-EN ISO 12944-4:2017 Part 4: Types of surface and surface preparation (ISO 12944-4:2017)
- SFS-EN ISO 12944-7:2017 Part 7: Execution and supervision of paint work (ISO 12944-7:2017)
- SFS-EN ISO 12944-8:2017 Part 8: Development of specifications for new work and maintenance (ISO 12944-8:2017)
- SFS-EN ISO 15110:2017 Paints and varnishes - Artificial weathering including acidic deposition (ISO 15110:2017)
- SFS-EN ISO 16773-4:2017 Paints and varnishes - Electrochemical impedance spectroscopy (EIS) on coated and uncoated metallic specimens - Part 4: Examples of spectra of polymer-coated and uncoated specimens (ISO 16773-4:2017)
- SFS-EN ISO 19399:2017 Paints and varnishes - Wedge-cut method for determination of film thickness (scribe and drill method) (ISO 19399:2016)
- SFS-EN ISO 20567-1:2017 Paints and varnishes - Determination of stone-chip resistance of coatings - Part 1: Multi-impact testing (ISO 20567-1:2017)
- SFS-EN ISO 20567-2:2017 Part 2: Single-impact test with a guided impact body (ISO 20567-2:2017)
- ISO 3668:2017 Paints and varnishes - Visual comparison of the colour of paints
- ISO 6270-1:2017 Paints and varnishes - Determination of resistance to humidity - Part 1: Continuous condensation
- ISO 6270-2:2017 Part 2: Procedure for exposing test specimens in condensation-water atmospheres
- ISO 6270-3:2017 Part 3: Condensation (in-cabinet exposure with heated, bubbling water reservoir)
- ISO 19396-1:2017 Paints and varnishes - Determination of pH value - Part 1: pH electrodes with glass membrane
- ISO 19396-2:2017 Part 2: pH electrodes with ISFET technology
- ISO 19403-1:2017 Paints and varnishes - Wettability - Part 1: Terminology and general principles
- ISO 19403-2:2017 Part 2: Determination of the surface free energy of solid surfaces by measuring the contact angle
- ISO 19403-3:2017 Part 3: Determination of the surface tension of liquids using the pendant drop method
- ISO 19403-4:2017 Part 4: Determination of the polar and dispersive fractions of the surface tension of liquids from an interfacial tension
- ISO 19403-5:2017 Part 5: Determination of the polar and dispersive fractions of the surface tension of liquids from contact angles measurements on a solid with only a disperse contribution to its surface energy
- ISO 19403-6:2017 Part 6: Measurement of dynamic contact angle
- ISO 19403-7:2017 Part 7: Measurement of the contact angle on a tilt stage (roll-off angle)
- SFS-EN ISO 787-1:2017 General methods of test for pigments and extenders - Part 1: Comparison of colour of pigments (ISO 787-1:1982)
- SFS-EN ISO 787-4:2017 Part 4: Determination of acidity or alkalinity of the aqueous extract (ISO 787-4:1981)
- SFS-EN ISO 787-17:2017 Part 17: Comparison of lightening power of white pigments (ISO 787-17:2002)
- SFS-EN ISO 787-21:2017 Part 21: Comparison of heat stability of pigments using a stoving medium (ISO 787-21:1979)
- SFS-EN ISO 787-22:2017 Part 22: Comparison of resistance to bleeding of pigments (ISO 787-22:1980)
- SFS-EN ISO 18451-1:2017 Pigments, dyestuffs and extenders - Terminology - Part 1: General terms (ISO 18451-1:2015)
- SFS-EN ISO 18451-2:2017 Part 2: Classification of colouring materials according to colouristic and chemical aspects (ISO 18451-2:2015)

## Muovit

### CEN/TC 249 ja ISO/TC 61 Plastics

- SFS-EN 438-9:2017 High-pressure decorative laminates (HPL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 9: Classification and specifications for alternative core laminates
- SFS-EN 13100-1:2017 Non destructive testing of welded joints of thermoplastics semi-finished products - Part 1: Visual examination
- SFS-EN 13206:2017 Plastics - Thermoplastic covering films for use in agriculture and horticulture
- SFS-EN 15534-1:2014 + A1:2017 Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods for characterisation of compounds and products
- SFS-EN 15534-6:2015 + A1:2017 Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 6: Specifications for fencing profiles and elements
- SFS-EN ISO 177:2017 Plastics - Determination of migration of plasticizers (ISO 177:2016)
- EN ISO 294-1:2017 Plastics - Injection moulding of test specimens of thermoplastic materials - Part 1: General principles, and moulding of multipurpose and bar test specimens (ISO 294-1:2017)
- SFS-EN ISO 294-5:2017 Part 5: Preparation of standard specimens for investigating anisotropy (ISO 294-5:2017)
- SFS-EN ISO 899-1:2017 Plastics - Determination of creep behaviour - Part 1: Tensile creep (ISO 899-1:2017)
- SFS-EN ISO 4589-1:2017 Plastics - Determination of burning behaviour by oxygen index - Part 1: Guidance (ISO 4589-1:2017)
- SFS-EN ISO 4589-2:2017 Part 2: Ambient-temperature test (ISO 4589-2:2017)
- SFS-EN ISO 4589-3:2017 Part 3: Elevated-temperature test (ISO 4589-3:2017)
- SFS-EN ISO 5659-2:2017 Plastics - Smoke generation - Part 2: Determination of optical density by a single-chamber test (ISO 5659-2:2017)
- SFS-EN ISO 10210:2017 Plastics - Methods for the preparation of samples for biodegradation testing of plastic materials (ISO 10210:2012)
- SFS-EN ISO 10350-1:2017 Plastics - Acquisition and presentation of comparable single-point data - Part 1: Moulding materials (ISO 10350-1:2017)
- SFS-EN ISO 14853:2017 Plastics - Determination of the ultimate anaerobic biodegradation of plastic materials in an aqueous system - Method by measurement of biogas production (ISO 14853:2016)
- SFS-EN ISO 15023-1:2017 Plastics -- Poly(vinyl alcohol) (PVAL) materials -- Part 1: Designation system and basis for specifications (ISO 15023-1:2017)
- SFS-EN ISO 15985:2017 Plastics - Determination of the ultimate anaerobic biodegradation under high-solids anaerobic-digestion conditions - Method by analysis of released biogas (ISO 15985:2014)
- SFS-EN ISO 16396-2:2017 Plastics - Polyamide (PA) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 16396-2:2017)
- CEN ISO/TR 17801:2017 Plastics - Standard table for reference global solar spectral irradiance at sea level - Horizontal, relative air mass 1 (ISO/TR 17801:2014)
- CEN ISO/TR 18486:2017 Plastics - Parameters comparing the spectral irradiance of a laboratory light source for weathering applications to a reference solar spectral irradiance (ISO/TR 18486:2016)
- SFS-EN ISO 18830:2017 Plastics - Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sandy sediment interface - Method by measuring the oxygen demand in closed respirometer (ISO 18830:2016)
- SFS-EN ISO 19679:2017 Plastics - Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sediment interface - Method by analysis of evolved carbon dioxide (ISO 19679:2016)
- SFS-EN ISO 20028-1:2017 Plastics - Thermoplastic polyester (TP) moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 20028-1:2017)

- SFS-EN ISO 20028-2:2017 Part 2: Preparation of test specimens and determination of properties (ISO 20028-2:2017)
- SFS-EN ISO 20568-1:2017 Plastics - Fluoropolymer dispersions and moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 20568-1:2017)
- SFS-EN ISO 20568-2:2017 Part 2: Preparation of test specimens and determination of properties (ISO 20568-2:2017)
- SFS-EN ISO 22007-1:2017 Plastics - Determination of thermal conductivity and thermal diffusivity - Part 1: General principles (ISO 22007-1:2017)
- SFS-EN ISO 22007-4:2017 Part 4: Laser flash method (ISO 22007-4:2017)
- SFS-EN ISO 25137-1:2017 Plastics - Sulfone polymer moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 25137-1:2009)
- SFS-EN ISO 25137-2:2017 Part 2: Preparation of test specimens and determination of properties (ISO 25137-2:2009)
- SFS-EN ISO 29664:2017 Plastics - Artificial weathering including acidic deposition (ISO 29664:2010)
- ISO 2797:2017 Textile glass - Rovings - Basis for a specification
- ISO 3616:2001/Amd 1:2017 Textile glass - Chopped-strand and continuous-filament mats - Determination of average thickness, thickness under load and recovery after compression
- ISO 4582:2017 Plastics - Determination of changes in colour and variations in properties after exposure to glass-filtered solar radiation, natural weathering or laboratory radiation sources
- ISO 5025:2017 Reinforcement products - Woven fabrics - Determination of width and length
- ISO 6237:2017 Adhesives - Wood-to-wood adhesive bonds - Determination of shear strength by tensile loading
- ISO 9370:2017 Plastics - Instrumental determination of radiant exposure in weathering tests - General guidance and basic test method
- ISO/TR 10093:2017 Plastics - Fire tests - Standard ignition sources
- ISO 12992:2017 Plastics - Vertical flame spread determination for film and sheet
- ISO 14900:2017 Plastics - Polyols for use in the production of polyurethane - Determination of hydroxyl number
- ISO 15064:2017 Plastics - Aromatic isocyanates for use in the production of polyurethanes - Determination of the isomer ratio in toluenediisocyanate (TDI)
- ISO/TS 15791-2:2017 Plastics - Development and use of intermediate-scale fire tests for plastics products - Part 2: Use of intermediate-scale tests for semi-finished and finished products
- ISO 16620-5:2017 Plastics - Biobased content - Part 5: Declaration of biobased carbon content, biobased synthetic polymer content and biobased mass content
- ISO 19209:2017 Adhesives - Classification of thermoplastic wood adhesives for non-structural applications
- ISO 19210:2017 Adhesives - Wood adhesives for non-structural applications - Determination of tensile shear strength of lap joints
- ISO 19699-1:2017 Superabsorbent polymer - Sodium polyacrylate resin for absorbing blood - Part 1: Test methods
- ISO 19699-2:2017 Part 2: Specifications
- ISO 19821:2017 Determination of span rating for natural fibre-reinforced plastic composite (NFC) deck boards
- ISO 19929:2017 Plastics - Determination of average molecular mass and mixture ratio of poly(ethylene glycol) and its derivatives by MALDI-TOF-MS
- ISO 20029-1:2017 Plastics - Thermoplastic polyester/ester and polyether/ester elastomers for moulding and extrusion - Part 1: Designation system and basis for specification
- ISO 20029-2:2017 Part 2: Preparation of test specimens and determination of properties
- ISO 20368:2017 Plastics - Epoxy resins - Determination of degree of crosslinking of crosslinked epoxy resins by Fourier Transform Infrared (FTIR) Spectroscopy
- ISO 26603:2017 Plastics - Aromatic isocyanates for use in the production of polyurethanes - Determination of total chlorine

## **Paperi, kartonki ja sellu**

CEN/TC 172 Pulp, paper and board ja ISO/TC 6 Paper, board and pulps

- SFS-EN ISO 287:2017 Paper and board - Determination of moisture content of a lot - Oven-drying method (ISO 287:2017)
- ISO 2528:2017 Sheet materials - Determination of water vapour transmission rate - Gravimetric (dish) method
- ISO 4094:2017 Paper, board and pulps - General requirements for the competence of laboratories authorized for the issue of optical reference transfer standards of level 3
- ISO 5629:2017 Paper and board - Determination of bending stiffness - Resonance method
- ISO 8791-3:2017 Paper and board - Determination of roughness/smoothness (air leak methods) - Part 3: Sheffield method
- ISO 9416:2017 Paper - Determination of light scattering and absorption coefficients (using Kubelka-Munk theory)
- ISO 11093-8:2017 Paper and board - Testing of cores - Part 8: Determination of natural frequency and flexural modulus by experimental modal analysis
- ISO 11475:2017 Paper and board - Determination of CIE whiteness, D65/10 degrees (outdoor daylight)
- ISO 11480:2017 Pulp, paper and board - Determination of total chlorine and organically bound chlorine
- ISO 20494:2017 Paper - Requirements for stability for general graphic applications

## **Pinta-aktiiviset aineet**

CEN/TC 276 Surface active agents

- CEN/TS 17035:2017 Surface Active Agents - Bio-based surfactants - Requirements and test method

## **Räjähteet ja ilotulitteet**

ISO/TC 264 Fireworks

- ISO/TR 21865:2017 Fireworks - Third party testing - Voluntary scheme
- ISO 25947-1:2017 Fireworks - Categories 1, 2 and 3 - Part 1: Terminology
- ISO 25947-2:2017 Part 2: Categories and types
- ISO 25947-3:2017 Part 3: Minimum labelling requirements
- ISO 25947-4:2017 Part 4: Test methods
- ISO 25947-5:2017 Part 5: Requirements for construction and performance
- ISO 26261-1:2017 Fireworks - Category 4 - Part 1: Terminology
- ISO 26261-2:2017 Part 2: Requirements
- ISO 26261-3:2017 Part 3: Test methods
- ISO 26261-4:2017 Part 4: Minimum labelling requirements and instructions for use

## **Työperäinen altistuminen**

CEN/TC 137 Assessment of workplace exposure to chemical and biological agents

- SFS-EN 16897:2017 Workplace exposure. Characterization of ultrafine aerosols/nanoaerosols. Determination of number concentration using condensation particle counters
- CEN/TR 17055:2017 Workplace exposure - Choice of procedures for the measurement of chemical agents complying with the requirements given in EN 482 and either one of EN 838, EN 1076, EN 13205, EN 13890 and EN 13936 - Choice of procedures

## **Vety ja kaasujen analytiikka**

ISO/TC 158 Analysis of gases

- ISO 6145-6:2017 Gas analysis - Preparation of calibration gas mixtures using dynamic volumetric methods - Part 6: Critical flow orifices
- ISO 12963:2017 Gas analysis - Comparison methods for the determination of the composition of gas mixtures based on one- and two-point calibration
- ISO 16664:2017 Gas analysis - Handling of calibration gases and gas mixtures - Guidelines



## Liite 2: Kemesta ry:n toimialueen kumotut EN/ISO-standardit vuonna 2017

### Kalusteet

- SFS-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
- SFS-EN 14988-1:2006+A1:2012 Children's high chairs - Part 1: Safety requirements and SFS-EN 14988-2:2006+A1:2012 Part 2: Test methods (replaced by SFS-EN 14988:2017)

### Kiinteät biopolttoaineet

- SFS-EN 14778:2011 Solid biofuels - Sampling (replaced by SFS-EN ISO 18135:2017)
- SFS-EN 14780:2011 Solid biofuels - Sample preparation (replaced by SFS-EN ISO 14780:2017)
- SFS-EN 14918:2009 Solid biofuels - Determination of calorific value (replaced by SFS-EN ISO 18125:2017)

### Muovi

- SFS-EN ISO 1874-2:2012 Plastics - Polyamide (PA) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (replaced by SFS-EN ISO 16396-2:2017)
- SFS-EN ISO 7792-1:2012 Plastics - Thermoplastic polyester (TP) moulding and extrusion materials - Part 1: Designation system and basis for specifications (replaced by SFS-EN ISO 20028-1:2017)
- SFS-EN ISO 7792-2:2012 Part 2: Preparation of test specimens and determination of properties (replaced by SFS-EN ISO 20028-2:2017)
- SFS-EN ISO 10093:1998 Plastics - Fire tests - Standard ignition sources
- SFS-EN ISO 12086-1:2006+AC:2007 Plastics - Fluoropolymer dispersions and moulding and extrusion materials - Part 1: Designation system and basis for specifications (replaced by SFS-EN ISO 20568-1:2017)
- SFS-EN ISO 12086-2:2006+AC:2009 Part 2: Preparation of test specimens and determination of properties (replaced by SFS-EN ISO 20568-2:2017)
- ISO 10093:1998 Plastics - Fire tests -- Standard ignition sources (replaced by ISO/TR 10093:2017)
- ISO 14910-1:2013 Plastics - Thermoplastic polyester/ester and polyether/ester elastomers for moulding and extrusion - Part 1: Designation system and basis for specification (replaced by ISO 20029-1:2017)
- ISO 14910-2:2013 Part 2: Preparation of test specimens and determination of properties (replaced by ISO 20029-2:2017)
- ISO/TTA 4:2002 Measurement of thermal conductivity of thin films on silicon substrates

### Maalit ja lakat

- SFS-EN ISO 8502-12:2003 Preparation of steel substrates before application of paints and related products -- Tests for the assessment of surface cleanliness -- Part 12: Field method for the titrimetric determination of water-soluble ferrous ions
- ISO 4626:1980 Volatile organic liquids -- Determination of boiling range of organic solvents used as raw materials

### Kumi ja renkaat

- ISO 6447:1983 Rubber seals - Joint rings used for gas supply pipes and fittings - Specification for material
- ISO 6448:1985 Rubber seals -- Joint rings used for petroleum product supply pipes and fittings - Specification for material
- ISO 4666-2:2008 Rubber, vulcanized - Determination of temperature rise and resistance to fatigue in flexometer testing - Part 2: Rotary flexometer
- ISO 4251-3:2006 Tyres (ply rating marked series) and rims for agricultural tractors and machines - Part 3: Rims (replaced by ISO 18804:2017)

### Liima

- SFS-EN 15416-2:2007 Adhesives for load bearing timber structures other than phenolic and aminoplastic - Test methods - Part 2: Static load test of multiple bondline specimens in compression shear (replaced by SFS-EN 302-8:2017)

## Liite 3: Kemesta ry:n toimialueen kumotut SFS-standardit vuonna 2017

### Kemikaalit

- SFS-ISO 1688:1988 Natrium- ja kaliumsilikaatti teollisuuskäyttöön. Kuiva-aineen määrittäminen. Gravimetrinen menetelmä
- SFS-ISO 1688:en:1988 Sodium and potassium silicates for industrial use - Determination of dry matter - Gravimetric method
- SFS-ISO 2590:1989 Yleinen menetelmä arseenin määrittämiseksi. Fotometrinen hopeadietyyliditiokarbamaattimenetelmä
- SFS-ISO 2590:en:1989 General method for the determination of arsenic. Silver diethyldithiocarbamate photometric method

### Kumi

- SFS-ISO 48:en:2011 Vulkanoitu tai termoplastinen kumi. Kovuuden määrittäminen (kovuusalue 10... 100 IRHD)
- SFS-ISO 1431-3:en:2007 Kumi. Vulkanoitu ja termoplastinen kumi. Otsoninkestävyys. Osa 3: Viitteelliset ja vaihtoehtoiset menetelmät otsonipitoisuuden määrittämiseksi laboratoriotestikammiossa
- SFS-ISO 23529:en:2011 Kumi. Testikappaleiden yleiset valmistelu- ja ilmastointimenettelyt fysikaalisia testausmenetelmiä varten

### Maalit ja lakat

- SFS 3770 ISO 787-22:1982 Maalit ja lakat. Pigmentit. Värikkön testaaminen