

**Commission communication in the framework of the implementation of Directive 2014/34/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres**

*(Publication of titles and references of harmonised standards under Union harmonisation legislation)*

**(Text with EEA relevance)**

(2016/C 293/04)

ESO <sup>(1)</sup>	Reference and title of the standard (and reference document)	First publication OJ	Reference of superseded standard	Date of cessation of presumption of conformity of superseded standard Note 1
(1)	(2)	(3)	(4)	(5)
CEN	EN 1010-1:2004+A1:2010 Safety of machinery — Safety requirements for the design and construction of printing and paper converting machines — Part 1: Common requirements	8.4.2016		
CEN	EN 1010-2:2006+A1:2010 Safety of machinery — Safety requirements for the design and construction of printing and paper converting machines — Part 2: Printing and varnishing machines including pre-press machinery	8.4.2016		
CEN	EN 1127-1:2011 Explosive atmospheres — Explosion prevention and protection — Part 1: Basic concepts and methodology	8.4.2016		
CEN	EN 1127-2:2014 Explosive atmospheres — Explosion prevention and protection — Part 2: Basic concepts and methodology for mining	8.4.2016		
CEN	EN 1710:2005+A1:2008 Equipment and components intended for use in potentially explosive atmospheres in underground mines	8.4.2016		
	EN 1710:2005+A1:2008/AC:2010	8.4.2016		
CEN	EN 1755:2015 Industrial Trucks — Safety requirements and verification — Supplementary requirements for operation in potentially explosive atmospheres	8.4.2016		

(1)	(2)	(3)	(4)	(5)
CEN	EN 1834-1:2000 Reciprocating internal combustion engines — Safety requirements for design and construction of engines for use in potentially explosive atmospheres — Part 1: Group II engines for use in flammable gas and vapour atmospheres	8.4.2016		
CEN	EN 1834-2:2000 Reciprocating internal combustion engines — Safety requirements for design and construction of engines for use in potentially explosive atmospheres — Part 2: Group I engines for use in underground workings susceptible to firedamp and/or combustible dust	8.4.2016		
CEN	EN 1834-3:2000 Reciprocating internal combustion engines — Safety requirements for design and construction of engines for use in potentially explosive atmospheres — Part 3: Group II engines for use in flammable dust atmospheres	8.4.2016		
CEN	EN 1839:2012 Determination of explosion limits of gases and vapours	8.4.2016		
CEN	EN 1953:2013 Atomising and spraying equipment for coating materials — Safety requirements	8.4.2016		
CEN	EN 12581:2005+A1:2010 Coating plants — Machinery for dip coating and electrodeposition of organic liquid coating material — Safety requirements	8.4.2016		
CEN	EN 12621:2006+A1:2010 Machinery for the supply and circulation of coating materials under pressure — Safety requirements	8.4.2016		
CEN	EN 12757-1:2005+A1:2010 Mixing machinery for coating materials — Safety requirements — Part 1: Mixing machinery for use in vehicle refinishing	8.4.2016		
CEN	EN 13012:2012 Petrol filling stations — Construction and performance of automatic nozzles for use on fuel dispensers	8.4.2016		

(1)	(2)	(3)	(4)	(5)
CEN	EN 13160-1:2003 Leak detection systems — Part 1: General principles	8.4.2016		
CEN	EN 13237:2012 Potentially explosive atmospheres — Terms and definitions for equipment and protective systems intended for use in potentially explosive atmospheres	8.4.2016		
CEN	EN 13463-2:2004 Non-electrical equipment for use in potentially explosive atmospheres — Part 2: Protection by flow restricting enclosure 'fr'	8.4.2016		
CEN	EN 13463-3:2005 Non-electrical equipment for use in potentially explosive atmospheres — Part 3: Protection by flameproof enclosure 'd'	8.4.2016		
CEN	EN 13616-1:2016 Overfill prevention devices for static tanks for liquid fuels — Part 1: Overfill prevention devices with closure device	This is the first publication	EN 13616:2004 Note 2.1	11.7.2017
CEN	EN 13617-1:2012 Petrol filling stations — Part 1: Safety requirements for construction and performance of metering pumps, dispensers and remote pumping units	8.4.2016		
CEN	EN 13617-2:2012 Petrol filling stations — Part 2: Safety requirements for construction and performance of safe breaks for use on metering pumps and dispensers	8.4.2016		
CEN	EN 13617-3:2012 Petrol filling stations — Part 3: Safety requirements for construction and performance of shear valves	8.4.2016		
CEN	EN 13617-4:2012 Petrol filling stations — Part 4: Safety requirements for construction and performance of swivels for use on metering pumps and dispensers	8.4.2016		

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CEN	EN 13760:2003 Automotive LPG filling system for light and heavy duty vehicles — Nozzle, test requirements and dimensions	8.4.2016		
CEN	EN 13821:2002 Potentially explosive atmospheres — Explosion prevention and protection — Determination of minimum ignition energy of dust/air mixtures	8.4.2016		
CEN	EN 13852-1:2013 Cranes — Offshore cranes — Part 1: General-purpose offshore cranes	8.4.2016		
CEN	EN 14034-1:2004+A1:2011 Determination of explosion characteristics of dust clouds — Part 1: Determination of the maximum explosion pressure $p_{max}$ of dust clouds	8.4.2016		
CEN	EN 14034-2:2006+A1:2011 Determination of explosion characteristics of dust clouds — Part 2: Determination of the maximum rate of explosion pressure rise ( $dp/dt$ ) max of dust clouds	8.4.2016		
CEN	EN 14034-3:2006+A1:2011 Determination of explosion characteristics of dust clouds — Part 3: Determination of the lower explosion limit LEL of dust clouds	8.4.2016		
CEN	EN 14034-4:2004+A1:2011 Determination of explosion characteristics of dust clouds — Part 4: Determination of the limiting oxygen concentration LOC of dust clouds	8.4.2016		
CEN	EN 14373:2005 Explosion suppression systems	8.4.2016		
CEN	EN 14460:2006 Explosion resistant equipment	8.4.2016		
CEN	EN 14491:2012 Dust explosion venting protective systems	8.4.2016		

(1)	(2)	(3)	(4)	(5)
CEN	EN 14492-1:2006+A1:2009 Cranes — Power driven winches and hoists — Part 1: Power driven winches	8.4.2016		
	EN 14492-1:2006+A1:2009/AC:2010	8.4.2016		
CEN	EN 14492-2:2006+A1:2009 Cranes — Power driven winches and hoists — Part 2: Power driven hoists	8.4.2016		
	EN 14492-2:2006+A1:2009/AC:2010	8.4.2016		
CEN	EN 14522:2005 Determination of the auto ignition temperature of gases and vapours	8.4.2016		
CEN	EN 14591-1:2004 Explosion prevention and protection in under- ground mines — Protective systems — Part 1: 2- bar explosion proof ventilation structure	8.4.2016		
	EN 14591-1:2004/AC:2006	8.4.2016		
CEN	EN 14591-2:2007 Explosion prevention and protection in under- ground mines — Protective systems — Part 2: Passive water trough barriers	8.4.2016		
	EN 14591-2:2007/AC:2008	8.4.2016		
CEN	EN 14591-4:2007 Explosion prevention and protection in under- ground mines — Protective systems — Part 4: Automatic extinguishing systems for road head- ers	8.4.2016		
	EN 14591-4:2007/AC:2008	8.4.2016		
CEN	EN 14677:2008 Safety of machinery — Secondary steelmaking — Machinery and equipment for treatment of liquid steel	8.4.2016		
CEN	EN 14678-1:2013 LPG equipment and accessories — Construction and performance of LPG equipment for auto- motive filling stations — Part 1: Dispensers	8.4.2016		

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CEN	EN 14681:2006+A1:2010 Safety of machinery — Safety requirements for machinery and equipment for production of steel by electric arc furnaces	8.4.2016		
CEN	EN 14756:2006 Determination of the limiting oxygen concentration (LOC) for flammable gases and vapours	8.4.2016		
CEN	EN 14797:2006 Explosion venting devices	8.4.2016		
CEN	EN 14973:2015 Conveyor belts for use in underground installations — Electrical and flammability safety requirements	8.4.2016		
CEN	EN 14983:2007 Explosion prevention and protection in underground mines — Equipment and protective systems for firedamp drainage	8.4.2016		
CEN	EN 14986:2007 Design of fans working in potentially explosive atmospheres	8.4.2016		
CEN	EN 14994:2007 Gas explosion venting protective systems	8.4.2016		
CEN	EN 15089:2009 Explosion isolation systems	8.4.2016		
CEN	EN 15188:2007 Determination of the spontaneous ignition behaviour of dust accumulations	8.4.2016		
CEN	EN 15198:2007 Methodology for the risk assessment of non-electrical equipment and components for intended use in potentially explosive atmospheres	8.4.2016		
CEN	EN 15233:2007 Methodology for functional safety assessment of protective systems for potentially explosive atmospheres	8.4.2016		

(1)	(2)	(3)	(4)	(5)
CEN	EN 15268:2008 Petrol filling stations — Safety requirements for the construction of submersible pump assemblies	8.4.2016		
CEN	EN 15794:2009 Determination of explosion points of flammable liquids	8.4.2016		
CEN	EN 15967:2011 Determination of maximum explosion pressure and the maximum rate of pressure rise of gases and vapours	8.4.2016		
CEN	EN 16009:2011 Flameless explosion venting devices	8.4.2016		
CEN	EN 16020:2011 Explosion diverters	8.4.2016		
CEN	EN 16447:2014 Explosion isolation flap valves	8.4.2016		
CEN	EN ISO 16852:2010 Flame arresters — Performance requirements, test methods and limits for use (ISO 16852:2008, including Cor 1:2008 and Cor 2:2009)	8.4.2016		
CEN	EN ISO 80079-36:2016 Explosive atmospheres — Part 36: Non-electrical equipment for explosive atmospheres — Basic method and requirements (ISO 80079-36:2016)	This is the first publication	EN 13463-1:2009 Note 2.1	31.10.2019
CEN	EN ISO 80079-37:2016 Explosive atmospheres — Part 37: Non-electrical equipment for explosive atmospheres — Non-electrical type of protection constructional safety 'c', control of ignition sources 'b', liquid immersion 'k' (ISO 80079-37:2016)	This is the first publication	EN 13463-5:2011 EN 13463-6:2005 EN 13463-8:2003 Note 2.1	31.10.2019
Cenelec	EN 50050-1:2013 Electrostatic hand-held spraying equipment — Safety requirements — Part 1: Hand-held spraying equipment for ignitable liquid coating materials	8.4.2016	EN 50050:2006 Note 2.1	14.10.2016

(1)	(2)	(3)	(4)	(5)
Cenelec	EN 50050-2:2013 Electrostatic hand-held spraying equipment — Safety requirements — Part 2: Hand-held spraying equipment for ignitable coating powder	8.4.2016	EN 50050:2006 Note 2.1	14.10.2016
Cenelec	EN 50050-3:2013 Electrostatic hand-held spraying equipment — Safety requirements — Part 3: Hand-held spraying equipment for ignitable flock	8.4.2016	EN 50050:2006 Note 2.1	14.10.2016
Cenelec	EN 50104:2010 Electrical apparatus for the detection and measurement of oxygen — Performance requirements and test methods	8.4.2016		
Cenelec	EN 50176:2009 Stationary electrostatic application equipment for ignitable liquid coating material — Safety requirements	8.4.2016		
Cenelec	EN 50177:2009 Stationary electrostatic application equipment for ignitable coating powders — Safety requirements	8.4.2016		
	EN 50177:2009/A1:2012	8.4.2016	Note 3	
Cenelec	EN 50223:2015 Stationary electrostatic application equipment for ignitable flock material — Safety requirements	8.4.2016	EN 50223:2010 Note 2.1	13.4.2018
Cenelec	EN 50271:2010 Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen — Requirements and tests for apparatus using software and/or digital technologies	8.4.2016		
Cenelec	EN 50281-2-1:1998 Electrical apparatus for use in the presence of combustible dust — Part 2-1: Test methods — Methods for determining the minimum ignition temperatures of dust	8.4.2016		



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	EN 50281-2-1:1998/AC:1999	8.4.2016		
Cenelec	EN 50303:2000 Group I, Category M1 equipment intended to remain functional in atmospheres endangered by firedamp and/or coal dust	8.4.2016		
Cenelec	EN 50381:2004 Transportable ventilated rooms with or without an internal source of release	8.4.2016		
	EN 50381:2004/AC:2005	8.4.2016		
Cenelec	EN 50495:2010 Safety devices required for the safe functioning of equipment with respect to explosion risks	8.4.2016		
Cenelec	EN 60079-0:2012 Explosive atmospheres — Part 0: Equipment — General requirements IEC 60079-0:2011 (Modified) + IS1:2013	8.4.2016		
	EN 60079-0:2012/A11:2013	8.4.2016	Note 3	7.10.2016
Cenelec	EN 60079-1:2014 Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures 'd' IEC 60079-1:2014	8.4.2016	EN 60079-1:2007 Note 2.1	1.8.2017
Cenelec	EN 60079-2:2014 Explosive atmospheres — Part 2: Equipment protection by pressurized enclosure 'p' IEC 60079-2:2014	8.4.2016	EN 60079-2:2007 EN 61241-4:2006 Note 2.1	25.8.2017
	EN 60079-2:2014/AC:2015	8.4.2016		
Cenelec	EN 60079-5:2015 Explosive atmospheres — Part 5: Equipment protection by powder filling 'q' IEC 60079-5:2015	8.4.2016	EN 60079-5:2007 Note 2.1	24.3.2018
Cenelec	EN 60079-6:2015 Explosive atmospheres — Part 6: Equipment protection by liquid immersion 'o' IEC 60079-6:2015	8.4.2016	EN 60079-6:2007 Note 2.1	27.3.2018

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Cenelec	EN 60079-7:2015 Explosive atmospheres — Part 7: Equipment protection by increased safety 'e' IEC 60079-7:2015	8.4.2016	EN 60079-7:2007 Note 2.1	31.7.2018
Cenelec	EN 60079-11:2012 Explosive atmospheres — Part 11: Equipment protection by intrinsic safety 'i' IEC 600 IEC 60079-11:2011	8.4.2016	EN 60079-27:2008 Note 2.1	
Cenelec	EN 60079-15:2010 Explosive atmospheres — Part 15: Equipment protection by type of protection 'n' IEC 60079-15:2010	8.4.2016		
Cenelec	EN 60079-18:2015 Explosive atmospheres — Part 18: Equipment protection by encapsulation 'm' IEC 60079-18:2014	8.4.2016	EN 60079-18:2009 Note 2.1	16.1.2018
Cenelec	EN 60079-20-1:2010 Explosive atmospheres — Part 20-1: Material characteristics for gas and vapour classification — Test methods and data IEC 60079 IEC 60079-20-1:2010	8.4.2016		
Cenelec	EN 60079-25:2010 Explosive atmospheres — Part 25: Intrinsically safe electrical systems IEC 60079-25:2010	8.4.2016		
	EN 60079-25:2010/AC:2013	8.4.2016		
Cenelec	EN 60079-26:2015 Explosive atmospheres — Part 26: Equipment with Equipment Protection Level (EPL) Ga IEC 60079-26:2014	8.4.2016	EN 60079-26:2007 Note 2.1	2.12.2017
Cenelec	EN 60079-28:2015 Explosive atmospheres — Part 28: Protection of equipment and transmission systems using optical radiation IEC 60079-28:2015	8.4.2016	EN 60079-28:2007 Note 2.1	1.7.2018

(1)	(2)	(3)	(4)	(5)
Cenelec	EN 60079-29-1:2007 Explosive atmospheres — Part 29-1: Gas detectors — Performance requirements of detectors for flammable gases IEC 60079-29-1:2007 (Modified)	8.4.2016		
Cenelec	EN 60079-29-4:2010 Explosive atmospheres — Part 29-4: Gas detectors — Performance requirements of open path detectors for flammable gases IEC 60079-29-4:2009 (Modified)	8.4.2016		
Cenelec	EN 60079-30-1:2007 Explosive atmospheres — Part 30-1: Electrical resistance trace heating — General and testing requirements IEC 60079-30-1:2007	8.4.2016		
Cenelec	EN 60079-31:2014 Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure 't' IEC 60079-31:2013	8.4.2016	EN 60079-31:2009 Note 2.1	1.1.2017
Cenelec	EN 60079-35-1:2011 Explosive atmospheres — Part 35-1: Caplights for use in mines susceptible to firedamp — General requirements — Construction and testing in relation to the risk of explosion IEC 60079-35-1:2011	8.4.2016		
	EN 60079-35-1:2011/AC:2011	8.4.2016		
Cenelec	EN ISO/IEC 80079-34:2011 Explosive atmospheres — Part 34: Application of quality systems for equipment manufacture (ISO/IEC 80079-34:2011)	8.4.2016		

- <sup>(1)</sup> ESO: European standardisation organisation:  
— CEN: Avenue Marnix 17, B-1000, Brussels, Tel. +32 2 5500811; fax + 32 2 5500819 (<http://www.cen.eu>)  
— CENELEC: Avenue Marnix 17, B-1000, Brussels, Tel. +32 2 5196871; fax + 32 2 5196919 (<http://www.cenelec.eu>)  
— ETSI: 650, route des Lucioles, F-06921 Sophia Antipolis, Tel. +33 492 944200; fax +33 493 654716, (<http://www.etsi.eu>)

Note 1: Generally the date of cessation of presumption of conformity will be the date of withdrawal ('dow'), set by the European standardisation organisation, but attention of users of these standards is drawn to the fact that in certain exceptional cases this can be otherwise.

Note 2.1: The new (or amended) standard has the same scope as the superseded standard. On the date stated, the superseded standard ceases to give presumption of conformity with the essential or other requirements of the relevant Union legislation.

Note 2.2: The new standard has a broader scope than the superseded standard. On the date stated the superseded standard ceases to give presumption of conformity with the essential or other requirements of the relevant Union legislation.

Note 2.3: The new standard has a narrower scope than the superseded standard. On the date stated, the (partially) superseded standard ceases to give presumption of conformity with the essential or other requirements of the relevant Union legislation for those products or services that fall within the scope of the new standard. Presumption of conformity with the essential or other requirements of the relevant Union legislation for products or services that still fall within the scope of the (partially) superseded standard, but that do not fall within the scope of the new standard, is unaffected.

Note 3: In case of amendments, the referenced standard is EN CCCC:YYYY, its previous amendments, if any, and the new, quoted amendment. The superseded standard therefore consists of EN CCCC:YYYY and its previous amendments, if any, but without the new quoted amendment. On the date stated, the superseded standard ceases to give presumption of conformity with the essential or other requirements of the relevant Union legislation.

NOTE:

- Any information concerning the availability of the standards can be obtained either from the European standardisation organisations or from the national standardisation bodies the list of which is published in the *Official Journal of the European Union* according to Article 27 of the Regulation (EU) No 1025/2012 <sup>(1)</sup>.
- Standards are adopted by the European standardisation organisations in English (CEN and CENELEC also publish in French and German). Subsequently, the titles of the standards are translated into all other required official languages of the European Union by the national standardisation bodies. The European Commission is not responsible for the correctness of the titles which have been presented for publication in the Official Journal.
- References to Corrigenda ‘.../AC:YYYY’ are published for information only. A Corrigendum removes printing, linguistic or similar errors from the text of a standard and may relate to one or more language versions (English, French and/or German) of a standard as adopted by a European standardisation organisation.
- Publication of the references in the *Official Journal of the European Union* does not imply that the standards are available in all the official languages of the European Union.
- This list replaces all the previous lists published in the *Official Journal of the European Union*. The European Commission ensures the updating of this list.
- More information about harmonised standards and other European standards on the Internet at:  
[http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/index\\_en.htm](http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/index_en.htm)

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<sup>(1)</sup> OJ C 338, 27.9.2014, p. 31.