

DECISIONS

COMMISSION IMPLEMENTING DECISION (EU) 2022/1668

of 28 September 2022

on harmonised standards for equipment and protective systems intended for use in potentially explosive atmospheres drafted in support of Directive 2014/34/EU of the European Parliament and of the Council

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) No 1025/2012 of the European Parliament and of the Council of 25 October 2012 on European standardisation, amending Council Directives 89/686/EEC and 93/15/EEC and Directives 94/9/EC, 94/25/EC, 95/16/EC, 97/23/EC, 98/34/EC, 2004/22/EC, 2007/23/EC, 2009/23/EC and 2009/105/EC of the European Parliament and of the Council and repealing Council Decision 87/95/EEC and Decision No 1673/2006/EC of the European Parliament and of the Council ⁽¹⁾, and in particular Article 10(6) thereof,

Whereas:

- (1) In accordance with Article 12 of Directive 2014/34/EU of the European Parliament and of the Council ⁽²⁾, products which are in conformity with harmonised standards or parts thereof, the references of which have been published in the *Official Journal of the European Union*, are to be presumed to be in conformity with the essential health and safety requirements set out in Annex II to that Directive covered by those standards or parts thereof.
- (2) By letter BC/CEN/46-92 – BC/CLC/05-92 of 12 December 1994, the Commission made a request to the European Committee for Standardization (CEN) and the European Committee for Electrotechnical Standardization (Cenelec) for the drafting and revision of harmonised standards in support of Directive 94/9/EC of the European Parliament and of the Council ⁽³⁾ ('the request'). That Directive was replaced by Directive 2014/34/EU without changing the essential health and safety requirements set out in Annex II to Directive 94/9/EC. Those requirements are currently set out in Annex II to Directive 2014/34/EU.
- (3) In particular, CEN and Cenelec were requested to draft new standards on the design and testing of equipment for use in potentially explosive atmospheres as indicated in Chapter I of the standardisation programme agreed between CEN and Cenelec and the Commission and attached to the request. CEN and Cenelec were also requested to revise the existing standards with a view to aligning them to the essential health and safety requirements of Directive 94/9/EC.
- (4) On the basis of the request, CEN drafted harmonised standard 'EN 15967:2022 – Determination of maximum explosion pressure and the maximum rate of pressure rise of gases and vapours'.
- (5) The Commission together with CEN has assessed whether standard 'EN 15967:2022' drafted by CEN complies with the request.

⁽¹⁾ OJ L 316, 14.11.2012, p. 12.

⁽²⁾ Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres (OJ L 96, 29.3.2014, p. 309).

⁽³⁾ Directive 94/9/EC of the European Parliament and the Council of 23 March 1994 on the approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres (OJ L 100, 19.4.1994, p. 1).

- (6) The standard 'EN 15967:2022' satisfies the requirements it aims to cover and which are set out in Annex II to Directive 2014/34/EU. It is therefore appropriate to publish the reference of that standard in the *Official Journal of the European Union*.
- (7) Standard 'EN 15967:2022' replaces standard EN 15967:2011. It is therefore necessary to withdraw from the C series of the *Official Journal of the European Union* the reference of standard 'EN 15967:2011' that is published by Commission communication 2018/C 371/01 ⁽⁴⁾.
- (8) In order to give manufacturers sufficient time to adapt their products to the revised version of standard 'EN 15967:2011', it is necessary to defer the withdrawal of the reference to that standard.
- (9) In the interests of clarity and rationality, a complete list of references of harmonised standards drafted in support of Directive 2014/34/EU and satisfying the requirements they aim to cover should be published in a single act. The references of harmonised standards drafted in support of Directive 2014/34/EU are currently published by Commission Implementing Decision (EU) 2019/1202 ⁽⁵⁾ and Communication 2018/C 371/01.
- (10) Implementing Decision (EU) 2019/1202 has been substantially amended several times. In the interests of clarity and rationality, and since further amendment needs to be made to that Implementing Decision, that Implementing Decision should be repealed and replaced.
- (11) Many of the references of harmonised standards published by Communication 2018/C 371/01 have been withdrawn. Implementing Decision (EU) 2019/1202 provides for withdrawal of the remaining references of harmonised standards that are published by that Communication. In the interests of clarity and rationality Communication 2018/C 371/01 should be repealed. In order to give manufacturers sufficient time to adapt their products to the revised versions of the standards concerned, Communication 2018/C 371/01 should continue to apply until the dates of withdrawal of the references of harmonised standards concerned published by that Communication.
- (12) Compliance with a harmonised standard confers a presumption of conformity with the corresponding essential requirements set out in Union harmonisation legislation from the date of publication of the reference of such standard in the *Official Journal of the European Union*. This Decision should therefore enter into force on the date of its publication,

HAS ADOPTED THIS DECISION:

Article 1

The references of harmonised standards for equipment and protective systems intended for use in potentially explosive atmospheres in support of Directive 2014/34/EU, listed in Annex I to this Decision, are hereby published in the *Official Journal of the European Union*.

Article 2

Implementing Decision (EU) 2019/1202 is repealed.

⁽⁴⁾ 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) (OJ C 371, 12.10.2018, p. 1).

⁽⁵⁾ Commission Implementing Decision (EU) 2019/1202 of 12 July 2019 on the harmonised standards for equipment and protective systems intended for use in potentially explosive atmospheres drafted in support of Directive 2014/34/EU of the European Parliament and of the Council (OJ L 189, 15.7.2019, p. 71).

Article 3

Communication 2018/C 371/01 is repealed. However, it shall continue to apply in respect of the references of harmonised standards listed in Annex II to this Decision until the dates of withdrawal of those references.

Article 4

This Decision shall enter into force on the day of its publication in the *Official Journal of the European Union*.

Done at Brussels, 28 September 2022.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX I

No	Reference of the standard
1.	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
2.	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
3.	EN 1127-1:2019 Explosive atmospheres – Explosion prevention and protection – Part 1: Basic concepts and methodology
4.	EN 1127-2:2014 Explosive atmospheres – Explosion prevention and protection – Part 2: Basic concepts and methodology for mining
5.	EN 1755:2015 Industrial Trucks – Safety requirements and verification – Supplementary requirements for operation in potentially explosive atmospheres
6.	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
7.	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.	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
9.	EN 1839:2017 Determination of the explosion limits and the limiting oxygen concentration (LOC) for flammable gases and vapours
10.	EN 1953:2013 Atomising and spraying equipment for coating materials – Safety requirements
11.	EN 12581:2005+A1:2010 Coating plants – Machinery for dip coating and electrodeposition of organic liquid coating material – Safety requirements
12.	EN 12621:2006+A1:2010 Machinery for the supply and circulation of coating materials under pressure – Safety requirements

No	Reference of the standard
13.	EN 12757-1:2005+A1:2010 Mixing machinery for coating materials – Safety requirements – Part 1: Mixing machinery for use in vehicle refinishing
14.	EN 13012:2021 Petrol filling stations – Construction and performance of automatic nozzles for use on fuel dispensers
15.	EN 13237:2012 Potentially explosive atmospheres – Terms and definitions for equipment and protective systems intended for use in potentially explosive atmospheres
16.	EN 13616-1:2016 Overfill prevention devices for static tanks for liquid fuels – Part 1: Overfill prevention devices with closure device
17.	EN 13617-1:2021 Petrol filling stations – Part 1: Safety requirements for construction and performance of metering pumps, dispensers and remote pumping units
18.	EN 13617-2:2021 Petrol filling stations – Part 2: Safety requirements for construction and performance of safe breaks for use on metering pumps and dispensers
19.	EN 13617-3:2021 Petrol filling stations – Part 3: Safety requirements for construction and performance of shear valves
20.	EN 13617-4:2021 Petrol filling stations – Part 4: Safety requirements for construction and performance of swivels for use on metering pumps and dispensers
21.	EN 13760:2021 LPG equipment and accessories – Automotive LPG filling system for light and heavy duty vehicles – Nozzle, test requirements and dimensions
22.	EN 13852-1:2013 Cranes – Offshore cranes – Part 1: General-purpose offshore cranes
23.	EN 13852-3:2021 Cranes – Offshore cranes – Part 3: Light offshore cranes Notice 1: The normative references referred to in clause 2 of harmonised standard EN IEC 60079-0:2018 shall be read as EN IEC 60079-0:2018 corrected by EN IEC 60079-0:2018/AC:2020-02 Notice 2: The normative references referred to in clause 2 of harmonised standard EN ISO 80079-36:2016 shall be read as EN ISO 80079-36:2016 corrected by EN ISO 80079-36:2016/AC:2019 Restriction: this publication does not cover the following part of the standard: column 'Remarks/Notes' of Table ZB.1
24.	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

No	Reference of the standard
25.	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
26.	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
27.	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
28.	EN 14373:2021 Explosion suppression systems
29.	EN 14460:2018 Explosion resistant equipment
30.	EN 14491:2012 Dust explosion venting protective systems
31.	EN 14492-1:2006+A1:2009 Cranes – Power driven winches and hoists – Part 1: Power driven winches EN 14492-1:2006+A1:2009/AC:2010
32.	EN 14492-2:2006+A1:2009 Cranes – Power driven winches and hoists – Part 2: Power driven hoists EN 14492-2:2006+A1:2009/AC:2010
33.	EN 14522:2005 Determination of the auto ignition temperature of gases and vapours
34.	EN 14591-1:2004 Explosion prevention and protection in underground mines – Protective systems – Part 1: 2-bar explosion proof ventilation structure EN 14591-1:2004/AC:2006
35.	EN 14591-2:2007 Explosion prevention and protection in underground mines – Protective systems – Part 2: Passive water trough barriers EN 14591-2:2007/AC:2008
36.	EN 14591-4:2007 Explosion prevention and protection in underground mines – Protective systems – Part 4: Automatic extinguishing systems for road headers EN 14591-4:2007/AC:2008
37.	EN 14677:2008 Safety of machinery – Secondary steelmaking – Machinery and equipment for treatment of liquid steel
38.	EN 14678-1:2013 LPG equipment and accessories – Construction and performance of LPG equipment for automotive filling stations – Part 1: Dispensers

No	Reference of the standard
39.	EN 14681:2006+A1:2010 Safety of machinery – Safety requirements for machinery and equipment for production of steel by electric arc furnaces
40.	EN 14797:2006 Explosion venting devices
41.	EN 14973:2015 Conveyor belts for use in underground installations – Electrical and flammability safety requirements
42.	EN 14983:2007 Explosion prevention and protection in underground mines – Equipment and protective systems for firedamp drainage
43.	EN 14986:2017 Design of fans working in potentially explosive atmospheres
44.	EN 14994:2007 Gas explosion venting protective systems
45.	EN 15089:2009 Explosion isolation systems
46.	EN 15188:2020 Determination of the spontaneous ignition behaviour of dust accumulations
47.	EN 15198:2007 Methodology for the risk assessment of non-electrical equipment and components for intended use in potentially explosive atmospheres
48.	EN 15233:2007 Methodology for functional safety assessment of protective systems for potentially explosive atmospheres
49.	EN 15268:2008 Petrol filling stations – Safety requirements for the construction of submersible pump assemblies
50.	EN 15794:2009 Determination of explosion points of flammable liquids
51.	EN 15967:2022 Determination of maximum explosion pressure and the maximum rate of pressure rise of gases and vapours
52.	EN 16009:2011 Flameless explosion venting devices
53.	EN 16020:2011 Explosion diverters
54.	EN 16447:2014 Explosion isolation flap valves
55.	EN ISO 16852:2016 Flame arresters – Performance requirements, test methods and limits for use (ISO 16852:2016)

No	Reference of the standard
56.	EN 17077:2018 Determination of burning behaviour of dust layers
57.	EN 50050-1:2013 Electrostatic hand-held spraying equipment – Safety requirements – Part 1: Hand-held spraying equipment for ignitable liquid coating materials
58.	EN 50050-2:2013 Electrostatic hand-held spraying equipment – Safety requirements – Part 2: Hand-held spraying equipment for ignitable coating powder
59.	EN 50050-3:2013 Electrostatic hand-held spraying equipment – Safety requirements – Part 3: Hand-held spraying equipment for ignitable flock
60.	EN 50104:2010 Electrical apparatus for the detection and measurement of oxygen – Performance requirements and test methods
61.	EN 50176:2009 Stationary electrostatic application equipment for ignitable liquid coating material – Safety requirements
62.	EN 50177:2009 Stationary electrostatic application equipment for ignitable coating powders – Safety requirements EN 50177:2009/A1:2012
63.	EN 50223:2015 Stationary electrostatic application equipment for ignitable flock material – Safety requirements
64.	EN 50271:2018 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
65.	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 EN 50281-2-1:1998/AC:1999
66.	EN 50303:2000 Group I, Category M1 equipment intended to remain functional in atmospheres endangered by firedamp and/or coal dust
67.	EN 50381:2004 Transportable ventilated rooms with or without an internal source of release EN 50381:2004/AC:2005
68.	EN 50495:2010 Safety devices required for the safe functioning of equipment with respect to explosion risks
69.	EN IEC 60079-0:2018 Explosive atmospheres – Part 0: Equipment – General requirements (IEC 60079-0:2017)

No	Reference of the standard
70.	EN 60079-1:2014 Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures ‘d’ (IEC 60079-1:2014)
71.	EN 60079-2:2014 Explosive atmospheres – Part 2: Equipment protection by pressurized enclosure ‘p’ (IEC 60079-2:2014) EN 60079-2:2014/AC:2015
72.	EN 60079-5:2015 Explosive atmospheres – Part 5: Equipment protection by powder filling ‘q’ (IEC 60079-5:2015)
73.	EN 60079-6:2015 Explosive atmospheres – Part 6: Equipment protection by liquid immersion ‘o’ (IEC 60079-6:2015)
74.	EN 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety ‘e’ (IEC 60079-7:2015) EN IEC 60079-7:2015/A1:2018
75.	EN 60079-11:2012 Explosive atmospheres – Part 11: Equipment protection by intrinsic safety ‘i’ (IEC 60079-11:2011)
76.	EN 60079-15:2010 Explosive atmospheres – Part 15: Equipment protection by type of protection ‘n’ (IEC 60079-15:2010)
77.	EN 60079-18:2015 Explosive atmospheres – Part 18: Equipment protection by encapsulation ‘m’ (IEC 60079-18:2014) EN 60079-18:2015/A1:2017
78.	EN 60079-20-1:2010 Explosive atmospheres – Part 20-1: Material characteristics for gas and vapour classification – Test methods and data (IEC 60079-20-1:2010)
79.	EN 60079-25:2010 Explosive atmospheres – Part 25: Intrinsically safe electrical systems (IEC 60079-25:2010) EN 60079-25:2010/AC:2013
80.	EN 60079-26:2015 Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga (IEC 60079-26:2014)
81.	EN 60079-28:2015 Explosive atmospheres – Part 28: Protection of equipment and transmission systems using optical radiation (IEC 60079-28:2015)
82.	EN 60079-29-1:2016 Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases (IEC 60079-29-1:2016, (Modified))

No	Reference of the standard
83.	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))
84.	EN 60079-30-1:2017 Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements (IEC/IEEE 60079-30-1:2015, (Modified))
85.	EN 60079-31:2014 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure ‘t’ (IEC 60079-31:2013)
86.	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) EN 60079-35-1:2011/AC:2011
87.	EN ISO/IEC 80079-20-2:2016 Explosive atmospheres – Part 20-2: Material characteristics – Combustible dusts test methods (ISO/IEC 80079-20-2:2016) EN ISO/IEC 80079-20-2:2016/AC:2017
88.	EN ISO/IEC 80079-34:2011 Explosive atmospheres – Part 34: Application of quality systems for equipment manufacture (ISO/IEC 80079-34:2011)
89.	EN ISO 80079-36:2016 Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements (ISO 80079-36:2016)
90.	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)
91.	EN ISO/IEC 80079-38:2016 Explosive atmospheres – Part 38: Equipment and components in explosive atmospheres in underground mines (ISO/IEC 80079-38:2016) EN ISO/IEC 80079-38:2016/A1:2018

ANNEX II

No	Reference of the standard	Date of withdrawal
1.	EN 13012:2012 Petrol filling stations – Construction and performance of automatic nozzles for use on fuel dispensers	3.9.2023
2.	EN 13617-1:2012 Petrol filling stations – Part 1: Safety requirements for construction and performance of metering pumps, dispensers and remote pumping units	3.9.2023
3.	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	3.9.2023
4.	EN 13617-3:2012 Petrol filling stations – Part 3: Safety requirements for construction and performance of shear valves	3.9.2023
5.	EN 13617-4:2012 Petrol filling stations – Part 4: Safety requirements for construction and performance of swivels for use on metering pumps and dispensers	3.9.2023
6.	EN 13760:2003 Automotive LPG filling system for light and heavy duty vehicles – Nozzle, test requirements and dimensions	19.11.2023
7.	EN 14373:2005 Explosion suppression systems	19.11.2023
8.	EN 15188:2007 Determination of the spontaneous ignition behaviour of dust accumulations	27.11.2022
9.	EN 15967:2011 Determination of maximum explosion pressure and the maximum rate of pressure rise of gases and vapours	29.3.2024