



BSI Standards Publication

Explosive atmospheres

Part 38: Equipment and components in explosive
atmospheres in underground mines

National foreword

This British Standard is the UK implementation of EN ISO/IEC 80079-38:2016+A1:2018. It is derived from ISO/IEC 80079-38:2016. It supersedes BS EN ISO/IEC 80079-38:2016, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EXL/23, Explosion and fire precautions in industrial and chemical plant.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2018
Published by BSI Standards Limited 2018

ISBN 978 0 539 02070 0

ICS 29.260.20; 73.100.30

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2017.

Amendments/corrigenda issued since publication

Date	Text affected
30 June 2018	Implementation of CEN amendment A1:2018: Annexes ZA and ZB replaced and Annex ZC deleted
31 August 2018	Implementation of CEN correction notice 13 June 2018: Annex ZA, Table ZA.1, row '1.3.1' expanded

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

**EN ISO/IEC 80079-
38:2016/A1**

May 2018

ICS 29.260.20

English Version

**Explosive atmospheres - Part 38: Equipment and
components in explosive atmospheres in underground
mines (ISO/IEC 80079-38:2016)**

Atmosphères explosives - Partie 38: Appareils et
composants destinés à être utilisés dans les mines
souterraines grisouteuses (ISO/IEC 80079-38:2016)

Explosionsfähige Atmosphären - Teil 38: Geräte und
Komponenten in explosionsfähigen Atmosphären in
untertägigen Bergwerken (ISO/IEC 80079-38:2016)

This amendment A1 modifies the European Standard EN ISO/IEC 80079-38:2016; it was approved by CEN on 24 January 2018.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document (EN ISO/IEC 80079-38:2016/A1:2018) has been prepared by Technical Committee ISO/TMBG "Technical Management Board - groups" in collaboration with Technical Committee CEN/TC 305 "Potentially explosive atmospheres - Explosion prevention and protection", the secretariat of which is held by DIN.

This Amendment to the European Standard EN ISO/IEC 80079:2018 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2018, and conflicting national standards shall be withdrawn at the latest by November 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annexes ZA and B, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO/IEC 80079-38:2016 has been approved by CEN as EN ISO/IEC 80079-38:2016/A1:2018 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the essential requirements of Directive 2014/34/EU aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/BC/CEN/92/46 to provide one voluntary means of conforming to essential requirements of Directive 2014/34/EU "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 (recast)".

Once this standard is cited in the Official Journal of the European Union under that Directive compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Directive 2014/34/EU

Requirement /EU	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
		General: To confer a presumption of conformity with the relevant essential requirements of Directive 2014/34/EU, this standard has to be applied together with at least with one of those standards as specified in this Column below
1.0.1	4; 5	EN ISO 80079-36
1.0.2	4; 5	
1.0.3	6.2; 6.3	
1.0.4	4.1; 5.1.2; 5.1.3	EN ISO 80079-36
1.0.5	8	EN ISO 80079-36
1.0.6	7.2	
1.1.1	4; 4.1; 5.3	EN ISO 80079-36, EN 60079-0
1.1.2	4.1; 4.3; 5.4; 5.5; 5.6; 5.7; 5.9	EN ISO 80079-36, EN 60079-0,
1.1.3	4.1	EN ISO 80079-36, EN 60079-0
1.2.1	4.1	
1.2.4	4	
1.2.5	4	
1.2.6	7.1	EN ISO 80079-36, EN 60079-0

Requirement /EU	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
1.2.7 a)	4.4; 5.3.1.7; 5.8	
1.2.7 b)	4.1; 4.2.3; 4.4.3.1; 5.4.2; 5.5; 5.6; 5.7; 5.9; 6.1; C.8; C.9; C.10	
1.2.7 c)	4.2; 6.2	EN ISO 80079-36
1.2.7 d)	4.4.3; 5.8	
1.2.8	4.1; 4.2; 4.3; 5.3.1.7; 5.4.1; 5.4.2; 5.4.6	
1.2.9	4.3; 4.4	EN ISO 80079-36
1.3.1	4.1; 4.2.3; 4.4.3.1; 5.1; 5.4.2; 5.4.3; 5.5; 5.6; 5.7; 6.1; 7.2	
1.3.2	4.1; 4.4.6.2; 5.3.2; 5.4.1; 5.4.5; 6.6; C.6	EN ISO 80079-36, EN 60079-0
1.3.3	4.1; 4.4.6; C.4; C.5	
1.3.4	5.3.1.7; 5.4.2	
1.4.1	4.4.5; 6.3; 7.2	instructions notice for limits of use
1.4.2	4.1; 7.2 C1, C.10; C.13	instructions notice for limits of use
1.5.1 to 1.5.8	5.4.1; 5.7.1; 5.8	EN ISO 80079-36
1.6.1 to 1.6.5	5.4.1	
2.0.2	4; 5	EN ISO 80079-36, EN 60079-0
2.0.2.1	4; 5	EN ISO 80079-36, EN 60079-0
2.0.2.2	7.1	

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

Annex ZB (informative)

Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/396 to provide one voluntary means of conforming to essential requirements of Directive 2006/42/EC "DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast)".

Once this standard is cited in the Official Journal of the European Union under that Directive compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Directive 2006/42/EC

Essential Requirements of Directive 2006/42/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
1.5.7	Whole standard	

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.