BS EN 60079-5:2015

BSI Standards Publication

Explosive atmospheres

Part 5: Equipment protection by powder filling "q"

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National foreword

This British Standard is the UK implementation of EN 60079-5:2015. It is identical to IEC 60079-5:2015. It supersedes BS EN 60079-5:2007 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EXL/31, Equipment for explosive atmospheres.

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.

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Published by BSI Standards Limited 2015

ISBN 978 0 580 79835 1
ICS 29.260.20

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 May 2015.

Amendments/corrigenda issued since publication

Date	Text affected

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60079-5

April 2015

ICS 29.260.20

Supersedes EN 60079-5:2007

English Version

Explosive atmospheres - Part 5: Equipment protection by powder filling "q" (IEC 60079-5:2015)

Atmosphères explosives - Partie 5: Protection du matériel par remplissage pulvérulent "q" (IEC 60079-5:2015)

Explosionsgefährdete Bereiche - Teil 5: Geräteschutz durch Sandkapselung "q" (IEC 60079-5:2015)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 31/1156/FDIS, future edition 4 of IEC 60079-5, prepared by IEC/TC 31 "Equipment for explosive atmospheres" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60079-5:2015.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2015-12-24
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2018-03-24

This document supersedes EN 60079-5:2007.

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

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

For the relationship with EU Directive see informative Annex ZZ, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 60079-5:2015 was approved by CENELEC as a European Standard without any modification.

IEC 60050 (series)	NOTE	Harmonized as EN 60050 (series).
IEC 60664-1:2007	NOTE	Harmonized as EN 60664-1:2007.
IEC 60079 (series)	NOTE	Harmonized as EN 60079. (series)
IEC 61140	NOTE	Harmonized as EN 61140.
IEC 60747-5-5	NOTE	Harmonized as EN 60747-5-5.

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60079-0	-	Explosive atmospheres - Part 0: Equipment - General requirements	-	-
IEC 60079-7	-	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"	EN 60079-7	-
IEC 60079-11	-	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"	EN 60079-11	-
IEC 60127	series	Miniature fuses	EN 60127	series
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	-	-
IEC 61558-1	-	Safety of power transformers, power supplies, reactors and similar products - Part 1: General requirements and tests	EN 61558-1	-
			+EN 61558-1:2005/corrigendum Aug. 2006	2006
IEC 61558-2-6	-	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers	EN 61558-2-6	-
ISO 2591-1	-	Test sieving - Part 1: Methods using test sieves of woven wire cloth and perforated metal plate	-	-
ISO 2859-1	-	Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection	-	-
ISO 3310-1	-	Test sieves - Technical requirements and testing - Part 1: Test sieves of metal wire cloth	-	-
ISO 3310-2	-	Test sieves - Technical requirements and testing - Part 2: Test sieves of perforated metal plate	-	-

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Annex ZZ
(informative)
Coverage of Essential Requirements of EC Directives

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers only the following essential requirements out of those given in Annex II of the EC Directive 94/9/EC:

- ER 1.0.1, ER 1.0.2, ER 1.0.3, ER 1.0.5, ER 1.0.6 (partly)
- ER 1.1 (partly)
- ER 1.2.1 (partly), ER 1.2.2 (partly), ER 1.2.3 (partly), ER 1.2.5 (partly), ER 1.2.6 (partly), ER 1.2.7 (partly), ER 1.2.8
- ER 1.3.1
- ER 1.4.1 (partly), ER 1.4.2 (partly)
- ER 1.5.1, ER 1.5.3
- ER 1.6.4
- ER 2.0.1.3
- ER 2.0.2.1, ER 2.0.2.3 (partly)
- ER 2.1.1.2
- ER 2.1.2.3
- ER 2.2.1.1, ER 2.2.1.2
- ER 2.2.2.1, ER 2.2.2.2
- ER 2.3.1.2

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive[s] concerned.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

EXPLOSIVE ATMOSPHERES –

Part 5: Equipment protection by powder filling “q”

FOREWORD

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International Standard IEC 60079-5 has been prepared by IEC technical committee 31: Equipment for explosive atmospheres.

This fourth edition cancels and replaces the third edition, published in 2007, and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

NOTE The technical changes referred to include the significant technical changes in the revised IEC standard, but they do not form an exhaustive list of all modifications from the previous edition. More guidance may be found by referring to the redline version of the IEC standard, if available.

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