

BUREAU OF INDIAN STANDARDS

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Draft Indian Standard

**Explosive atmospheres– Part 5: Equipment protection by powder filling
"q"**

(Second Revision of IS/IEC 60079-5: 2015)

Electrical Apparatus for Explosive Atmosphere
Sectional Committee, ETD 22

Last date of receipt of
comments: **01 March 2024**

NATIONAL FOREWORD

This Indian Standard which is identical with IEC 60079-5 “Explosive atmospheres– Part 5: Equipment protection by powder filling "q" issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Electrical Apparatus for Explosive Atmosphere Sectional Committee.

This revision has been undertaken to align with the latest version of IEC 60079-5:2015+AMD1:2022 (Ed. 4.1).

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60079-0:2017, Explosive atmospheres – Part 0: Equipment – General requirements	IS/IEC 60079-0 : 2017, Explosive Atmospheres Part 0 Equipment — General Requirements (Third Revision)	Identical

IEC 60079-7, Explosive atmospheres – Part 7: Equipment protection by increased safety "e"	IS/IEC 60079 : PART 7: 2017 (<i>Second Revision</i>)	Identical
IEC 60079-11, Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i"	Doc ETD 22(22394) under wide circulation.	Identical to IEC 60079-11: 2023 Explosive Atmospheres Part 11 Equipment Protection by Intrinsic Safety "i" (<i>Second Revision</i>)
IEC 60127 (all parts), Miniature fuses	IS/IEC 60127 (parts)	Identical with IEC 60127
IEC 60529, Degrees of protection provided by enclosures (IP Code)	IS/IEC 60529: 2001, Degrees of protection provided by enclosures (IP Code)	Identical
IEC 61558-1, Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests	IS/IEC 61558-1: 1997 Safety of power transformers, power supply units and similar: Part 1 general requirements and tests	Identical
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	IS/IEC 61558-2-6: 1997 Safety of power transformers, power supply units and similar: Part 2 particular requirement: Sec 6 safety isolating transformers for general use	Identical
ISO 2859-1, Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection	IS/ISO 28598-1: 2017 Acceptance sampling procedures based on the allocation of priorities principle APP Part 1: Guidelines for the APP approach	Identical with IEC 61125 : 1992
ISO 2591-1, Test sieving – Methods using test sieves of woven wire cloth and perforated metal plate	IS 1607 : 2013 Methods of test sieving (Second Revision)	Modified/Technically Equivalent With ISO 2591-1: 1988

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard.

<i>International Standard</i>	<i>Title</i>
<i>ISO 3310-1</i>	<i>Test sieves – Technical requirements and testing – Part 1: Test sieves of metal wire cloth</i>
<i>ISO 3310-2</i>	<i>Test sieves – Technical requirements and testing – Part 2: Test sieves of perforated metal plate</i>

Only the English language text has been retained while adopting it in this Indian Standard, and as such, the page numbers given here are not the same as in the IEC Publication.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated expressing the result of a test or analysis shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding of numerical values (Second Revision)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Note: The technical content of the document is not available on website. For details, please refer the corresponding of IEC 60079-5:2015+AMD1:2022 (Ed. 4.1) or kindly contact:

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