AS/NZS 60079.11:2011 IEC 60079-11, Ed. 6.0 (2011) IEC 60079-11, Ed. 6.0 (2011)/Cor.1 (2012) (Incorporating Amendment No. 1) Reconfirmed 2022

Australian/New Zealand Standard™

Explosive atmospheres

Part 11: Equipment protection by intrinsic safety 'i'





AS/NZS 60079.11:2011

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-014, Explosive Atmospheres. It was approved on behalf of the Council of Standards Australia on 5 September 2011 and on behalf of the Council of Standards New Zealand on 5 August 2011.

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This Standard was issued in draft form for comment as DR AS/NZS 60079.11.

AS/NZS 60079.11:2011 (Reconfirmed) 2022-05-23

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RECONFIRMATION

 \mathbf{OF} AS/NZS 60079.11:2011 **Explosive atmospheres**

Part 11: Equipment protection by intrinsic safety 'i'

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Technical Committee EL-014 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Australian/New Zealand Standard™

Explosive atmospheres

Part 11: Equipment protection by intrinsic safety 'i'

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-014, Explosive Atmospheres, to supersede AS/NZS 60079.11:2006.

This Standard incorporates Amendment No. 1 (April 2013). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to establish the specific requirements for design, construction and testing of electrical equipment with protection by intrinsic safety 'i' for use in flammable gas and vapour atmospheres and explosive dust atmospheres. It is intended to be read in conjunction with AS/NZS 60079.0, Explosive atmospheres, Part 0: Equipment—General requirements.

This Standard is identical with, and has been reproduced from IEC 60079-11, Ed.6.0 (2011), Explosive atmospheres—Part 11: Equipment protection by intrinsic safety 'i', and its Corrigendum 1 (2012), which is added at the end of the source text.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text 'this part of IEC 60079' should read 'this part of AS/NZS 60079'.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard		Australian or Australian/New Zealand Standard	
IEC 60529	Degrees of protection provided by enclosures (IP Code)	AS 60529	Degrees of protection provided by enclosures (IP Code)
60079 60079-0 60079-7 60079-25	Explosive atmospheres Part 0: General requirements Part 7: Equipment protection by increased safety 'e' Part 25: Intrinsically safe electrical systems	AS/NZS 60079 60079.0 60079.7 60079.25	Explosive atmospheres Part 0: General requirements Part 7: Equipment protection by increased safety 'e' Part 25: Intrinsically safe electrical systems
60112	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	60112	Method for the determination of the proof and the comparative tracking indices of solid insulating materials
62013	Caplights for use in mines susceptible to firedamp	62013	Caplights for use in mines susceptible to firedamp
62013-1	Part 1: General requirements— Construction and testing in relation to the risk of explosion	62013.1	Part 1: General requirements— Construction and testing in relation to the risk of explosion

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

It should be noted this edition merges the apparatus requirements of AS/NZS 60079.27 (FISCO) and AS/NZS 61241.11 (intrinsic safety for dusts), and therefore supersedes both standards. However many other parts of IEC 60079 and IEC 61241 are now published as identically-numbered parts of AS/NZS 60079 and AS/NZS 61241 respectively. The latter should be referenced when necessary.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the annex to which they apply. A 'normative' annex is an integral part of a Standard, whereas an 'informative' annex is only for information and guidance.



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