# Australian/New Zealand Standard™

# **Explosive atmospheres**

Part 15: Equipment protection by type of protection 'n'





#### AS/NZS 60079.15:2011

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 1 August 2011 and on behalf of the Council of Standards New Zealand on 21 July 2011.

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This Standard was issued in draft form for comment as DR AS/NZS 60079.15.

AS/NZS 60079.15:2011

## Australian/New Zealand Standard™

## **Explosive atmospheres**

# Part 15: Equipment protection by type of protection 'n'

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### **PREFACE**

This Standard was prepared by Joint Standards Australia/Standards New Zealand Committee EL-014, Explosive Atmospheres to supersede AS/NZS 60079.15:2006, *Electrical apparatus for explosive gas atmospheres*, Part 15: Construction, test and marking of type of protection, 'n' electrical apparatus.

The objective of this Standard is to establish the specific requirements for construction, testing and marking for Group II electrical equipment with type of protection, 'n' intended for use in explosive gas atmospheres. It is intended to be read in conjunction with AS/NZS 60079.0.

The objective of this revision is to adopt the current edition of IEC 60079-15.

This Standard is identical with, and has been reproduced from IEC 60079-15 Ed. 4.0 (2010), Explosive atmospheres, Part 15: Equipment protection by type of protection 'n'.

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 t IEC	to International Standard	Australian/ AS	New Zealand Standard
60034	Rotating electrical machines	60034	Rotating electrical machines
60034-1	Part 1: Rating and performance	60034.1	Part 1: Rating and performance
60068		60068	
	Environmental testing Part 2-27: Tests—Test Ea and		Environmental testing
00008-2-27		60068.2.27	Part 2.27: Tests—Test Ea and guidance: Shock
	guidance: Shock	AS/NZS	SHOCK
60079	Explosive atmospheres	60079	Explosive atmospheres
60079-0	Part 0: Equipment—General requirements	60079.0	Part 0: Equipment—General requirements
60079-1	Part 1: Equipment protection by	60079.1	Part 1: Equipment protection by
	flameproof enclosures 'd'		flameproof enclosures 'd'
60079-11	Part 11: Equipment protection by	60079.11	Part 11: Equipment protection by
	intrinsic safety 'i'		intrinsic safety 'i'
60112	Method for the determination of the	60112	Method for the determination of the
00112	proof and the comparative tracking	00112	proof and the comparative tracking
	indices of solid insulating materials		indices of solid insulating materials
	C		
60155	Glow-starters for fluorescent lamps	60155	Glow-starters for fluorescent lamps
60238	Edison screw lampholders	60238	Edison screw lampholders
60269	Low-voltage fuses	60269	Low-voltage fuses
60269-3	Part 3: Supplementary requirements	60269.3	Part 3: Supplementary requirements for
	for fuses for use by unskilled persons		fuses for use by unskilled persons
	(fuses mainly for household and		(fuses mainly for household and similar
	similar applications)—Examples of		applications)—Examples of
	standardized systems of fuses A to F		standardized systems of fuses A to F
60520	·	60500	•
60529	Degrees of protection provided by	60529	Degrees of protection provided by
	enclosures (IP Code)		enclosures (IP Code)

60598 60598-1	Luminaires Part 1: General requirements and tests	AS/NZS 60598 60598.1	Luminaires Part 1: General requirements and tests
60598-2	Part 2: Particular requirements	60598.2	Part 2: Particular requirements
60927	Auxiliaries for lamps—Starting devices (other than glow starters)—Performance requirements	60927	Auxiliaries for lamps—Starting devices (other than glow starters)— Performance requirements
60947	Low-voltage switchgear and controlgear	60947	Low-voltage switchgear and controlgear
60947-7-1	Part 7-1: Ancillary equipment— Terminal blocks for copper conductors	60947.7.1	Part 7.1: Ancillary equipment— Terminal blocks for copper conductors
60947-7-2	Part 7-2: Ancillary equipment— Protective conductor terminal blocks for copper conductors	60947.7.2	Part 7.2: Ancillary equipment— Protective conductor terminal blocks for copper conductors
60998	Connecting devices for low-voltage circuits for household and similar	60998	Connecting devices for low-voltage circuits for household and similar
60998-2-4	purposes Part 2-4: Particular requirements for twist-on connecting devices	60998.2.4	purposes Part 2.4: Particular requirements for twist-on connecting devices
60999	Connecting devices—Electrical copper conductors—Safety requirements for screw-type and screwless-type clamping units	60999	Connecting devices—Electrical copper conductors—Safety requirements for screw-type and screwless-type clamping units
60999-1	Part 1: General requirements and particular requirements for clamping units for conductors from 0.2 mm <sup>2</sup> up to 35 mm <sup>2</sup> (included)	60999.1	Part 1: General requirements and particular requirements for clamping units for conductors from 0.2 mm <sup>2</sup> up to 35 mm <sup>2</sup> (included)
61048	Auxiliaries for lamps – Capacitors for use in tubular fluorescent and other discharge lamp circuits – General and safety requirements	61048	Auxiliaries for lamps – Capacitors for use in tubular fluorescent and other discharge lamp circuits – General and safety requirements
61184	Bayonet lampholders	61184	Bayonet lampholders
61347 61347-2-1	Lamp controlgear Part 2-1: Particular requirements for starting devices (other than glow starters)	61347 61347.2.1	Lamp controlgear Part 2.1: Particular requirements for starting devices (other than glow starters)

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

It should be noted that 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.



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