

Australian/New Zealand Standard™

Explosive atmospheres

**Part 10.2: Classification of areas—
Explosive dust atmospheres**



AS/NZS 60079.10.2:2016

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MS-011, Classification of Hazardous Areas. It was approved on behalf of the Council of Standards Australia on 26 October 2015 and on behalf of the Council of Standards New Zealand on 19 February 2016.
This Standard was published on 5 April 2016.

The following are represented on Committee MS-011:

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Australian Paint Manufacturers' Federation
Australian Petroleum Production and Exploration Association
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Bureau of Steel Manufacturers of Australia
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This Standard was issued in draft form for comment as DR2 AS/NZS 60079.10.2:2015.

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Part 10.2: Classification of areas— Explosive dust atmospheres

Originated in Australia as AS 2430.2—1981.
Originated in New Zealand as NZS 6101.2:1990.
Jointly revised and designated AS/NZS 61241.3:1999.
Previous edition AS/NZS 60079.10.2:2011.
Second edition 2016.

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ISBN 978 1 76035 427 5

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee MS-011, Classification of Hazardous Areas, to supersede AS/NZS 60079.10.2:2011, *Explosive atmospheres*, Part 10.2: *Classification of areas—Combustible dust atmospheres*.

The objective of this Standard is to set out the requirements for the identification and classification of areas where explosive dust atmospheres may be present, in order to permit the proper assessment of ignition sources in such areas.

This Standard is identical with, and has been reproduced from IEC 60079-10-2, Ed.2.0 (2015), *Explosive atmospheres*, Part 10-2: *Classification of areas—Explosive dust atmospheres*. Changes to the Standard introduced by this edition are listed in the IEC Foreword.

The classification of dust hazardous areas does not apply to domestic installations and is not intended to be applied to small commercial or retail installations where the type of handling is mainly manual and the scale of the operation is small and not continuous, such that the potential for significant dust clouds is low. These criteria would typically apply to small bakeries associated with ‘in store’ preparation of foods and other similar applications.

Competence for classification of hazardous areas, as described in Clause 4.3 of the Standard, may also be supported by training and/or assessment to relevant units from AS/NZS 4761, Parts 1 and 2, *Competencies for working with electrical equipment for hazardous areas (EEHA)*, or a similar training and/or assessment framework.

This Standard notes the optional consideration of Equipment Protection Levels (EPL) in Clause 4.1. Required processes for establishing EPL are provided in AS/NZS 60079.14.

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 Australian/New Zealand Standard’.
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References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards. The replacements at the time of publication are detailed in the following table but reference to the latest Australian or Australian/New Zealand Standard should be applied for any revisions after the publication of this Standard.

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
IEC		AS/NZS	
60079	Explosive atmospheres	60079	Explosive atmospheres
60079-0	Part 0: General requirements	60079.0	Part 0: General requirements
60079-10-1	Part 10-1: Classification of areas— Explosive gas atmospheres	60079.10.1	Part 10.1: Classification of areas— Explosive gas atmospheres (IEC 60079-10-1, Ed.1.0 (2008) MOD)

Only normative references that have been adopted as Australian or Australian/New Zealand Standard have been listed.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

CONTENTS

1	Scope.....	8
2	Normative references	9
3	Terms and definitions	9
4	Area classification	12
4.1	General.....	12
4.2	Area classification procedure for explosive dust atmospheres.....	13
4.3	Competence of personnel	14
5	Sources of release.....	14
5.1	General.....	14
5.2	Dust containment.....	14
5.3	Identification and grading of sources of release	14
6	Zones	15
6.1	General.....	15
6.2	Extent of zones	15
6.2.1	General	15
6.2.2	Zone 20	15
6.2.3	Zone 21	16
6.2.4	Zone 22	16
7	Dust layers	16
8	Documentation	17
8.1	General.....	17
8.2	Drawings, data sheets and tables	17
8.2.1	Content of documents.....	17
8.2.2	Preferred Symbol key for area classification zones	18
	Annex A (informative) Area classification examples	19
A.1	Examples of zones.....	19
A.1.1	General	19
A.1.2	Zone 20	19
A.1.3	Zone 21	19
A.1.4	Zone 22	19
A.2	Bag emptying station within a building and without exhaust ventilation.....	20
A.3	Bag emptying station with exhaust ventilation	21
A.4	Cyclone and filter with clean outlet outside building	21
A.5	Drum tipper within a building without exhaust ventilation.....	22
	Annex B (informative) Housekeeping	24
B.1	Introductory remarks	24
B.2	Levels of housekeeping	24
	Annex C (informative) Hybrid mixtures	26
C.1	General.....	26
C.2	Ventilation.....	26
C.3	Explosive limits	26
C.4	Chemical reactions	26
C.5	Minimum ignition parameters	26

	<i>Page</i>
C.6 Final classification	26
Bibliography.....	27
Figure 1 – Identification of zones on drawings	18
Figure A.1 – Bag emptying station within a building and without exhaust ventilation	20
Figure A.2 – Bag emptying station with exhaust ventilation	21
Figure A.3 – Cyclone and filter with clean outlet outside building	22
Figure A.4 – Drum tipper within a building without exhaust ventilation.....	23
Table 1 – Designation of zones depending on presence of dust	16

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