AS/NZS 60079.18:2005
IEC 60079-18, Ed.2.0 (2004)

AS/NZS 60079.18:2005

Australian/New Zealand Standard™

Electrical apparatus for explosive gas atmospheres

Part 18: Construction, test and marking of type of protection encapsulation ‘m’ electrical apparatus

STANDARDS AUSTRALIA

STANDARDS NEW ZEALAND
Paerewa Aotearoa

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-014, Electrical Equipment in Hazardous Areas. It was approved on behalf of the Council of Standards Australia on 8 April 2005 and on behalf of the Council of Standards New Zealand on 15 April 2005.
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The following are represented on Committee EL-014:

Auckland Regional Chamber of Commerce
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Australian Institute of Petroleum Ltd
Certification Interests (Australia)
Department of Natural Resources and Mines (Qld)
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Australian/New Zealand Standard™

Electrical apparatus for explosive gas atmospheres

Part 18: Construction, test and marking of type of protection encapsulation ‘m’ electrical apparatus

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-014, Electrical Equipment in Hazardous Areas; it will supersede AS 2431—1981, *Electrical equipment for explosive atmospheres—Encapsulated apparatus—Type of protection m*, two years from publication.

This Standard is identical with, and has been reproduced from IEC 60079-18, Ed. 2.0 (2004), *Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation "m" electrical apparatus*.

The objective of this Standard is to specify requirements for the construction, test and marking of electrical apparatus, parts of electrical apparatus and Ex components with the type of protection encapsulation 'm'.

This Standard will run concurrently with AS 2431—1981, *Electrical equipment for explosive atmospheres—Encapsulated apparatus—Type of protection m* for two years from publication; after two years, AS 2431—1981 will be withdrawn.

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

(a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

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The terms 'normative' and 'informative' are used 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.

CONTENTS

NOTES

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard

Electrical apparatus for explosive gas atmospheres Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus

1 Scope

This part of IEC 60079 gives the specific requirements for the construction, testing and marking of electrical apparatus, parts of electrical apparatus and Ex components with the type of protection encapsulation "m".

This part of IEC 60079 only applies for encapsulated electrical apparatus, encapsulated parts of electrical apparatus and encapsulated Ex components (hereinafter always referred to as "m" apparatus) where the rated voltage does not exceed 10 kV with a relative tolerance of +10 %.

This standard supplements the general requirements in IEC 60079-0.

2 Normative references

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

References to international standards that are struck through in this clause are replaced by references to identical Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading.

~~IEC 60079-0, *Electrical apparatus for explosive gas atmospheres – Part 0: General requirements*~~

AS/NZS 60079.0, *Electrical apparatus for explosive gas atmospheres—General requirements* (identical to IEC 60079-0)

~~IEC 60079-7:2001, *Electrical apparatus for explosive gas atmospheres – Part 7: Increased safety "e"*~~

AS/NZS 60079.7:2002, *Electrical apparatus for explosive gas atmospheres—Increased safety 'e'* (identical to IEC 60079-7:2001)

~~IEC 60079-11:1999, *Electrical apparatus for explosive gas atmospheres – Part 11: Intrinsic safety "i"*~~

AS/NZS 60079.11:2000, , *Electrical apparatus for explosive gas atmospheres—Intrinsic safety 'i'* (identical to IEC 60079-11:1999)

~~IEC 60079-26: , *Electrical apparatus for explosive gas atmospheres – Part 26: Construction, test and marking of Group II Zone 0 electrical apparatus*~~