

AS/NZS 61241.18:2005
IEC 61241-18, Ed.1 (2004)

AS/NZS 61241.18:2005

Australian/New Zealand Standard™

**Electrical apparatus for use in the
presence of combustible dust**

**Part 18: Protection by encapsulation
'mD'**



AS/NZS 61241.18:2005

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:

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Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
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Certification Interests (Australia)
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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.

This Standard is identical with, and has been reproduced from IEC 61241-18, Ed.1(2004), *Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation 'mD'*.

The objective of this Standard is to specify requirements for the construction, testing and marking of electrical apparatus, parts of electrical apparatus and Ex components with the type of protection 'mD', for use in the presence of combustible dusts.

This Standard supplements the general requirements in AS/NZS 61241.0.

AS/NZS 61241 consists of the following parts under the general title: *Electrical apparatus for use in the presence of combustible dust*:

Part 0:	General requirements
Part 1:	Protection by enclosures 'tD'
Part 2:	Type of protection 'pD'*
Part 10:	Classification of areas where combustible dusts are or may be present
Part 11:	Protection by intrinsic safety 'iD'*
Part 14:	Selection and installation
Part 17:	Inspection and maintenance of electrical installations in hazardous areas (other than mines)†
Part 18:	Protection by encapsulation 'mD'
Part 20:	Test methods‡
Part 20.1:	Methods for determining the minimum ignition temperatures of dust
Part 20.2:	Method for determining the electrical resistivity of dust in layers
Part 20.3:	Method for determining minimum ignition energy of dust/air mixtures

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* To be published (to supersede current AS/NZS 61241.4).

† To be published.

‡ Under consideration (to supersede current Parts 2.1, 2.2 and 2.3).

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