

AS ISO/IEC 80079.20.2:2016  
ISO/IEC 80079-20-2:2016

AS ISO/IEC 80079.20.2:2016



## **Explosive atmospheres**

### **Part 20.2: Material characteristics— Combustible dusts test methods**



This Australian Standard® was prepared by Committee MS-011, Classification of Hazardous Areas. It was approved on behalf of the Council of Standards Australia on 10 November 2016.

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The following are represented on Committee MS-011:

- Australasian Institute of Dangerous Good Consultants
  - Australian Industry Group
  - Australian Petroleum Production and Exploration Association
  - Department of Natural Resources and Mines, Qld
  - Engineers Australia
  - Gas Energy Australia
  - Institute of Electrical Inspectors
  - Institute of Instrumentation, Control and Automation Australia
  - Institution of Chemical Engineers
  - National Electrical and Communications Association
  - SafeWork NSW
- 

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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AS ISO/IEC 80079.20.2:2016

Australian Standard®

**Explosive atmospheres**

**Part 20.2: Material characteristics—  
Combustible dusts test methods**

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## PREFACE

This Standard was prepared by the Standards Australia Committee MS-011, Classification of Hazardous Areas, to supersede AS/NZS 61241.2.1:2000, *Electrical apparatus for use in the presence of combustible dust*, Part 2.1: *Test methods—Methods for determining the minimum ignition temperatures of dust*, AS/NZS 61241.2.2:2000, *Electrical apparatus for use in the presence of combustible dust*, Part 2.2: *Test methods—Method for determining the electrical resistivity of dust in layers*, and AS/NZS 61241.2.3:2000, *Electrical apparatus for use in the presence of combustible dust*, Part 2.3: *Test methods—Method for determining the minimum ignition energy of dust/air mixtures*.

The objective of this Standard is to describe the test methods for the determination of the characteristics of combustible dusts, including whether the dust is combustible or not, in order to permit the classification of areas where such materials exist to enable the proper selection and installation of equipment for use in the presence of combustible dust. This includes such variables as the dust being in the form of a cloud or layer, the particle size, moisture content, explosibility and ignition temperatures.

This Standard addresses the characteristics of dusts at standard atmospheric conditions, as defined in the Scope.

This Standard does not include pyrophoric substances or inherently explosible materials, such as recognized explosives, propellants (e.g. gunpowder, dynamite), or dusts of explosives and propellants that do not require atmospheric oxygen for combustion.

This Standard is identical with, and has been reproduced from ISO/IEC 80079-20-2:2016, *Explosive atmosphere—Part 20-2: Material characteristics—Combustible dusts test methods*

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There are no normative references in the source document.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annexes 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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