

Australian Standard[®]

**Abrasive products—Checking the grit
size of superabrasives**



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- Abrasives Institute of Australia
 - Australian Chamber of Commerce and Industry
 - Industrial Diamond Association of Australia
 - The University of Melbourne
 - Victorian Employers' Chamber of Commerce
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Abrasive products—Checking the grit size of superabrasives

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-033, Abrasives, to supersede AS/NZS 4514:1997, *Abrasive products—Grain sizes of diamond or cubic boron nitride 41 micrometres to 1180 micrometres*.

It is identical with, and has been reproduced from ISO 6106:2005, *Abrasive products—Checking the grit size of superabrasives*.

The objective of this revision is to adopt the latest edition of ISO 6106, and so align methods to determine superabrasive grit size with international convention.

The term ‘normative’ has been used in this Standard to define the application of the annex to which it applies. A ‘normative’ annex is an integral part of a Standard.

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 International Standard’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

The international reference document has not been adopted as an Australian Standard.

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AUSTRALIAN STANDARD

Abrasive products — Checking the grit size of superabrasives**1 Scope**

This International Standard specifies a method for determining or checking the grit size of superabrasives (diamond or cubic boron nitride) as used for the manufacture of industrial products such as grinding wheels and saws. It is applicable to grit size designations as defined in Tables 2 and 3.

This International Standard describes the grit size designations, the size limits, the sieves to be used in determining them and the procedure to be adopted for checking the grit size exclusive of any coating.

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.

ISO 554:1976, *Standard atmospheres for conditioning and/or testing — Specifications*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1**grit**

product whose size is defined by sieving

NOTE The smallest grit designation is D or B46.

3.2**grit size**

designated on-size fraction located between the upper and a lower control sieve as specified in this International Standard

NOTE The grit may include oversize and undersize factors as specified.