

Australian Standard<sup>®</sup>

**Superabrasive products—Rotating  
grinding tools with diamond or cubic  
boron nitride—General survey,  
designation and multilingual  
nomenclature**

**STANDARDS**  
Australia



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The following are represented on Committee ME-033:

- 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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## PREFACE

This Standard was prepared by the Standards Australia Committee ME-033, Abrasives, to supersede AS/NZS 4515:1998, *Abrasive products—Diamond or cubic boron nitride grinding wheels and saws—General survey, designation and multilingual nomenclature*.

This Standard is identical with, and has been reproduced from ISO 6104:2005, *Superabrasive products—Rotating grinding tools with diamond or cubic boron nitride—General survey, designation and multilingual nomenclature*.

The objective of this revision is to adopt the latest edition of ISO 6104, and so align the designations and nomenclature for rotating superabrasive grinding tools with international convention.

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.

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.

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## AUSTRALIAN STANDARD

# Superabrasive products — Rotating grinding tools with diamond or cubic boron nitride — General survey, designation and multilingual nomenclature

## 1 Scope

This International Standard gives a general survey, and specifies the designation, of rotating grinding tools with diamond or cubic boron nitride superabrasive section. It also gives a multilingual nomenclature concerning these tools.

**NOTE** In addition to terms in English and French, two of the three official ISO languages, this International Standard gives the equivalent terms in German; these terms are published under the responsibility of the member body for Germany (DIN). However, only the terms given in the official language can be considered as ISO terms.

## 2 Terms and dimensional abbreviations

See Annex A.

## 3 Designation

### 3.1 Structure of designation

#### 3.1.1 Elements

The structure of designation comprises three symbols intended only for the designation of the rotating grinding wheel and cutting-off wheels (see 3.1.2). The three symbols shall be included in any designation. A supplementary symbol may be used if necessary.

The meaning of these symbols is the following:

- digit or characteristic number for the basic core shape on which the superabrasive section is mounted (see 3.1.2);
- one or two-letter symbols for the shape or superabrasive section (see 3.1.3);
- digit or characteristic number for location of the superabrasive section on the core (see 3.1.4);
- possibly, one or several letter symbols for the core modifications (see 3.1.5).

#### 3.1.2 Basic core shape

Basic core shapes are defined by symbols irrespective of their location of the superabrasive section on the core and the end use of the rotating grinding tools. The presence of a recess in the core to accommodate the superabrasive section does not affect the determination of the symbol. For basic core shapes, see Table 1.