

Australian Standard™

**Bonded abrasive products—General
requirements**

This Australian Standard was prepared by Committee ME-033, Abrasives. It was approved on behalf of the Council of Standards Australia on 20 January 2005. This Standard was published on 2 March 2005.

The following are represented on Committee ME-033:

Abrasives Institute of Australia
Australian Business
Australian Chamber of Commerce and Industry
Industrial Diamond Association
University of Melbourne
Victorian Employer's Chamber of Commerce

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Bonded abrasive products—General requirements

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-033, Abrasives, to supersede, AS/NZS 4523:1998, *Bonded abrasive products—General—Designation, marking, range of outside diameters and tolerances*.

This Standard is identical with and has been reproduced from ISO 525:1999, *Bonded abrasive products—General requirements*.

The objective of this Standard is to provide manufacturers and users of bonded abrasive products with general requirements for these products.

The objective of this revision is to adopt the current edition of ISO 525.

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 test, ‘this International Standard’ should read ‘this Australian Standard’.
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References to international Standards should be replaced by equivalent Australian, New Zealand or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
ISO		AS/NZS	
603	Bonded abrasive products—Dimensions (series)	4524	Bonded abrasive products—Dimensions (series)
6103	Bonded abrasive products—Permissible unbalances of grinding wheels as delivered—Testing	4820	Bonded abrasive products—Permissible unbalances of grinding wheels as delivered—Testing
8486	Bonded abrasives—Determination and designation of grain size distribution	4518	Bonded abrasives—Determination and designation of grain size distribution
8486-1	Part 1: Macrogrits F4 to F220	4518.1	Part 1: Macrogrits F4 to F220
8486-2	Part 2: Microgrits F230 to F1200	4518.2	Part 2: Microgrits F230 to F1200
13942	Bonded abrasive products—Limit deviations and run-out tolerances	—	

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NOTES

AUSTRALIAN STANDARD

Bonded abrasive products—General requirements

1 Scope

This International Standard covers bonded abrasive products in general (grinding wheels, segments, sticks and stones) excluding abrasive products with diamond or cubic boron nitride.

It gives:

- the designation;
- the main form and denomination of bonded abrasive products;
- the standard profile of straight wheels;
- the range of outside diameters;
- the range of thicknesses;
- the range of bore diameters;
- specifications;
- the marking.

This International Standard is general and is complemented by ISO 603-1 to ISO 603-16, ISO 6103 and ISO 13942.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 603-1, *Bonded abrasive products — Dimensions — Part 1: Grinding wheels for external cylindrical grinding between centres.*

ISO 603-2, *Bonded abrasive products — Dimensions — Part 2: Grinding wheels for centreless external cylindrical grinding.*

ISO 603-3, *Bonded abrasive products — Dimensions — Part 3: Grinding wheels for internal cylindrical grinding.*