

Australian Standard™

Bonded abrasive products—Dimensions

**Part 2: Grinding wheels for centreless
external cylindrical grinding**

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
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Part 2: Grinding wheels for centreless external cylindrical grinding

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-033, Abrasives, to supersede, AS/NZS 4524.2:1998, *Bonded abrasive products—Dimensions, Part 2: Grinding wheels for centreless external cylindrical grinding*.

This Standard is identical with and has been reproduced from ISO 603-2:1999, *Bonded abrasive products—Dimensions, Part 2: Grinding wheels for centreless external cylindrical grinding*.

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

The objective of this revision is to adopt the current edition of ISO 603-2.

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 part of ISO 603’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

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	
525	Bonded abrasive products—General requirements	4523	Bonded abrasive products—General requirements
6103	Bonded abrasive products—Permissible unbalances of grinding wheels as delivered—Testing	4820	Bonded abrasive products—Permissible unbalances of grinding wheels as delivered—Testing
13942	Bonded abrasive products—Limit deviations and run-out tolerances	—	

AUSTRALIAN STANDARD

Bonded abrasive products—Dimensions

Part 2: Grinding wheels for centreless external cylindrical grinding

1 Scope

This part of ISO 603 specifies the nominal dimensions, in millimeters, of:

- Type 1: Straight grinding wheel
- Type 5: Wheel recessed on one side
- Type 7: Wheel recessed on both sides

These bonded abrasive products are intended to be used for the grinding of the external peripheral surface of a rotating workpiece. The workpiece is rotated and mechanically guided with reference to the grinding wheel by means of a control-wheel and rests on a straight-edge placed between the two wheels.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 603. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 603 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 525:1999, *Bonded abrasive products — General requirements*.

ISO 6103:1999, *Bonded abrasive products — Static balancing of grinding wheels — Testing*.

ISO 13942:—¹⁾, *Bonded abrasive products — Limit deviations and run-out tolerances*.

¹⁾ To be published.