

Australian Standard™

Bonded abrasive products—Dimensions

**Part 1: Grinding wheels for external
cylindrical grinding between centres**

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
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University of Melbourne
Victorian Employer's Chamber of Commerce

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-033, Abrasives, to supersede, AS/NZS 4524.1:1998, *Bonded abrasive products—Dimensions, Part 1: Grinding wheels for external cylindrical grinding between centres*.

This Standard is identical with and has been reproduced from ISO 603-1:1999, *Bonded abrasive products—Dimensions, Part 1: Grinding wheels for external cylindrical grinding between centres*.

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

The objective of this revision is to adopt the current edition of ISO 603-1.

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 mark.

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	4823 Bonded abrasive products—Permissible unbalances of grinding wheels as delivered—Testing
13942 Bonded abrasive products—Limit deviations and run-out tolerances	—

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AUSTRALIAN STANDARD

Bonded abrasive products—Dimensions

Part 1:

Grinding wheels for external cylindrical grinding between centres

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
- Type 20: Wheel relieved on one side
- Type 21: Wheel relieved on both sides
- Type 22: Wheel relieved on one side and recessed on the other side
- Type 23: Wheel relieved and recessed on one side
- Type 24: Wheel relieved and recessed on one side and recessed on the other side
- Type 25: Wheel relieved and recessed on one side and relieved on the other side
- Type 26: Wheel relieved and recessed on both sides.
- Type 38: Hubbed wheel
- Type 39: Double hubbed wheel

These bonded abrasive products are intended to be used for external cylindrical grinding between centres. The workpiece and the grinding wheel are mechanically guided.