

AS/NZS 4524.1:1998

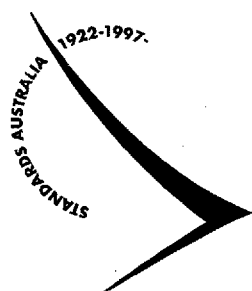
ISO/DIS 603-1:1996

AS/NZS 4524.1

Australian/New Zealand Standard[®]

**Bonded abrasive products—
Dimensions**

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



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AS/NZS 4524.1:1998

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME/33, Abrasives. It was approved on behalf of the Council of Standards Australia on 30 September 1997 and on behalf of the Council of Standards New Zealand on 29 September 1997. It was published on 5 January 1998.

The following interests are represented on Committee ME/33:

Abrasives Institute of Australia
Australian Association of Certification Bodies
Australian Business
Australian Chamber of Commerce and Industry
Furnishing Industry Association of Australia
Industrial Diamond Association
New Zealand Institute of Engineering Sciences
University of Melbourne

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**Part 1: Grinding wheels for external
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/33, Abrasives, to supersede, in part, AS B172.1—1967, *Bonded abrasive products, Part 1: Designation and marking*, and AS B172.2—1968, *Bonded abrasive products, Part 2: Shapes and dimensions of grinding wheels*.

This Standard is identical with and has been reproduced from ISO/DIS 603-1, *Bonded abrasive products—Dimensions, Part 1: Grinding wheels for external cylindrical grinding between centres*, in the expectation that ISO/DIS 603-1 will be published without further major amendments. This Standard will be reviewed at that time.

The objective of this Standard is to provide manufacturers and users of bonded abrasive products with details of minimum dimensional requirements which should be incorporated into these products.

This Standard is one of a series of Standards applicable to bonded abrasive products.

Statements expressed in mandatory terms in notes to tables, figures or clauses are deemed to be requirements of this Standard.

As this Standard is reproduced from an international Standard, the following applies:

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Australian/New Zealand Standard

ISO

AS/NZS

525 Bonded abrasive products—General—
Designation, marking, range of outside
diameters and tolerances

4523 Bonded abrasive products—General—
Designation, marking, range of outside
diameters and tolerances

6103 Bonded abrasive products—Static
balancing of grinding wheels—Testing

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AUSTRALIAN/NEW ZEALAND STANDARD

Bonded abrasive products — Dimensions —**Part 1:****Grinding wheels for external cylindrical grinding between centres****1 Scope and field of application**

This International Standard of ISO 603-1 lays down 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 recessed on one side and relieved on the other
- Type 23 - Wheel recessed and relieved on the same side
- Type 24 - Wheel recessed and relieved on one side and recessed on the other
- Type 25 - Wheel recessed and relieved on one side and relieved on the other
- Type 26 - Wheel recessed and relieved on both sides.
- Type 38 - Hubbed wheel
- Type 39 - Duplex symmetrical hubbed wheel

These bonded abrasive products are intended for the grinding of the external peripheral surface of a rotating workpiece, using either a transverse (reciprocating) or plunge fed grinding technique. The workpiece and the grinding wheel are mechanically fed.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 525	Bonded abrasive products – General-Designation, marking, range of outside diameters and tolerances
ISO 6103	Bonded abrasive products – Static balancing of grinding wheels – Testing