

Australian Standard™

Bonded abrasive products—Dimensions

**Part 7: Grinding wheels for manually
guided 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
Victorian Employer's Chamber of Commerce

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Web Shop at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

Australian Standards™ and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to the Chief Executive, Standards Australia, GPO Box 5420, Sydney, NSW 2001.

This Standard was issued in draft form for comment as DR 04451.

Australian Standard™

Bonded abrasive products—Dimensions

**Part 7: Grinding wheels for manually
guided grinding**

Originally as part of AS B172.1—1967 and AS B172.2—1968.
Previous edition AS/NZS 4524.7:1998.
Revised and designated as AS 4527—2005.

COPYRIGHT

© Standards Australia

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 6499 1

PREFACE

This Standard was prepared by the Standards Australia Committee ME-033, Abrasives, to supersede, AS/NZS 4524.7:1998, *Bonded abrasive products—Dimensions, Part 7: Grinding wheels for off-hand grinding*.

This Standard is identical with and has been reproduced from ISO 603-7:1999, *Bonded abrasive products—Dimensions, Part 7: Grinding wheels for manually guided 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 603-7.

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
603	Bonded abrasive products—Dimensions	4524	Bonded abrasive products—Dimensions
603-5	Part 5: Grinding wheels for surface grinding/face grinding	4524.5	Part 5: Grinding wheels for surface grinding/face grinding
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	—	

CONTENTS

	<i>Page</i>
1 Scope	1
2 Normative references	1
3 Dimensions	2
3.1 Type 1: Straight grinding wheel	2
3.2 Type 5: Wheel recessed on one side	3
3.3 Type 6: Straight cup wheel	3
3.4 Type 35: Cemented or clamped disc wheel	4
3.5 Type 36: Disc wheel with inserted nuts	4
3.6 Type 37: Cylinder wheels with inserted nuts	5
4 Designation	5
5 Specifications	6
5.1 Tolerances	6
5.2 Balancing	6
5.3 Marking	6
Bibliography	7

Currently in preview, click buy full version

AUSTRALIAN STANDARD

Bonded abrasive products—Dimensions**Part 7:
Grinding wheels for manually guided 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 6: Straight cup wheel
- Type 35: Cemented or clamped disc wheel
- Type 36: Disc wheel with inserted nuts
- Type 37: Cylinder wheels with inserted nuts

These bonded abrasive products are intended to be used for the grinding of any surface and regrinding of workpieces. The workpiece is guided by hand, the grinding wheel is fixed.

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 603-5:1999, *Bonded abrasive products — Dimensions — Grinding wheels for surface grinding/face grinding*.

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

ISO 139:2001, *Bonded abrasive products — Limit deviations and run-out tolerances*.

¹⁾ To be published.