

AS/NZS 2576:1996

Australian/New Zealand Standard[®]

**Welding consumables for build-up
and wear resistance**

AS/NZS 2576:1996

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee WD/2, Welding Consumables. It was approved on behalf of the Council of Standards Australia on 29 January 1996 and on behalf of the Council of Standards New Zealand on 20 February 1996. It was published on 5 May 1996.

The following interests are represented on Committee WD/2:

Australasian Railway Association
Australian Chamber of Commerce and Industry
Australian Institute of Steel Construction
Bureau of Steel Manufacturers of Australia
CSIRO, Division of Manufacturing and Technology
Lloyd's Register of Shipping
Metal Trades Industry Association of Australia
New Zealand Manufacturers Federation
Welding Technology Institute of Australia

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 95162.

AS/NZS 2576:1996

Australian/New Zealand Standard[®]

**Welding consumables for build-up
and wear resistance**

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA
1 The Crescent,
Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND
Level 10, Standards House,
155 The Terrace,
Wellington 6001 New Zealand

ISBN 0 7337 0388 7

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WD/2 on Welding Consumables to supersede AS 2576 — 1982, *Welding consumables for build-up and wear resistance — Classification system*. The Standard is largely based on the Welding Technology Institute of Australia (WTIA) Technical Note 4.

The objective of this Standard is to specify requirements for welding consumables for build-up and wear resistance.

This edition is technically equivalent to the 1982 edition but incorporates the following changes:

- (a) The words 'Classification system' have been omitted from the title and Scope to acknowledge that the Standard is not only a guide for the classification of consumables but also a product specification.
- (b) The requirements for conformance tests have been made non-mandatory since these were considered to be matters for contractual agreement and therefore not for inclusion in a mandatory form in the body of a product Standard.
- (c) A new Classification Type 19 has been introduced.
- (d) Requirements for deposition processes and forms of consumables for suffixes B5, B6 and B7 have been reviewed.
- (e) References to deposition processes suffixes C1, C2 and C3 have been reviewed.
- (f) The hardness requirements for classification purposes have been reviewed.
- (g) The marking and storage requirements have been revised to align with other Standards for welding consumables.
- (h) Appendix C, Selection of material, has been deleted, and substituted by a reference to WTIA Technical Note 4 in the Scope.
- (i) Editorial changes and adjustments have been made, including the following:
 - (i) Update of references to other Standards.
 - (ii) Alignment with current Standards Australia/Standards New Zealand policies.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendices to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

© Copyright — STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	4
1.2 REFERENCED DOCUMENTS	4
1.3 DEFINITIONS	4
1.4 CLASSIFICATION AND DESIGNATION	5
SECTION 2 PROPERTIES AND REQUIREMENTS	
2.1 MANUFACTURE	7
2.2 QUALIFICATION TESTS	7
2.3 CONFORMANCE TESTS	7
2.4 TESTS AND TEST PIECES REQUIRED	7
2.5 RETESTS	7
2.6 CHEMICAL COMPOSITION REQUIREMENTS	7
2.7 MICROSTRUCTURE REQUIREMENTS	8
2.8 HARDNESS REQUIREMENTS	8
2.9 PACKAGING	8
2.10 MARKING	8
2.11 STORAGE	9
APPENDICES	
A ATLAS OF TYPICAL PHOTOMICROGRAPHS	17
B METHODS OF TEST	37

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-