Australian Standard®

Cored electrodes for arc welding

Part 1: Ferritic steel electrodes

[Title allocated by Defence Cataloguing Authority: Electrode, welding (Ferritic steel, cored)(NSC 3439)]

This Australian Standard was prepared by Committee WD/2, Welding Consumables. It was approved on behalf of the Council of Standards Australia on 11 May 1990 and published on 17 September 1990.

The following interests are represented on Committee WD/2:

Bureau of Steel Manufacturers of Australia Confederation of Australian Industry Department of Defence Lloyd's Register of Shipping Railways of Australia Committee Welding Technology Institute of Australia

Review of Australian Standards. To keep abreast of progress in industry, Australian 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 Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

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

Australian Standard®

Cored electrodes for arc welding Part 1: Ferritic steel electrodes

First published as AS 2203—1981. Revised and redesignated AS 2203.1—1990. Incorporating:

Amdt 1—1992

PREFACE

This Standard was prepared by the Standards Australia Committee on Welding Consumables, to supersede AS 2203—1981, Carbon steel electrodes, cored (for arc welding).

This edition includes requirements for low or intermediate alloy ferritic steel electrodes along with carbon steel electrodes. The classification system adopted is compatible with AS 1858, *Electrodes and fluxes for submerged-arc welding*, and AS 2717, *Welding—Electrodes—Gas metal-arc*, and similarly has mechanical requirements complying with the Ship Classification Societies' unified rules. It also takes into consideration documents of the International Institute of Welding and the American National Standards Institute.

For ease of selection, the weld metal is classified according to its tensile strength and is divided into grades related to its Charpy V-notch impact energy value. The intent here is that the designer needs only to specify on the drawing the weld metal classification which will thereby nominate the mechanical properties required for the satisfactory functioning of the welded joint. The fabricator, taking into account recommendations by the manufacturer of the consumables, can select the electrode or electrode/gas combination appropriate to the materials of construction and the conditions pertaining at the time.

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

© Copyright - STANDARDS AUSTRALIA

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

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

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no 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 at any time.

CONTENTS

		Page
SECTI	ON 1 SCOPE AND GENERAL	
1.1 1.2 1.3 1.4	SCOPE REFERENCED DOCUMENTS DEFINITIONS CLASSIFICATION	4 4
SECTI	ON 2 PROPERTIES AND REQUIREMENTS	
2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 2.1 2.1 2.1	1 MARKING	7 7 7 11 11 11 11 12 13
APPEN	NDICES	
A B C	METHODS OF TEST	



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

Product Page

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