

AS/NZS 1553.1:1995

Australian/New Zealand Standard

Covered electrodes for welding

**Part 1: Low carbon steel
electrodes for manual metal-arc
welding of carbon steels and
carbon-manganese steels**

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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 2 November 1994 and on behalf of the Council of Standards New Zealand on 7 February 1995. It was published on 5 March 1995.

The following interests are represented on Committee WD/2:

Australian Chamber of Commerce and Industry
Australian Institute of Steel Construction
Bureau of Steel Manufacturers of Australia
Division of Manufacturing and Technology, CSIRO
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Part 1: Low carbon steel electrodes for manual metal-arc welding of carbon steels and carbon-manganese steels

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PREFACE

This edition of this Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WD/2 on Welding Consumables to supersede AS 1553.1—1983.

In preparing this edition, cognizance has been taken of ANSI/AWS A5.1—91 *Specifications for carbon steel electrodes for shielded metal arc welding*, and ISO/DIS 2560, *Specification for carbon-manganese steel electrodes for shielded metal arc welding* (Revision of ISO 2560—1973).

This edition incorporates the following significant technical changes from the 1983 edition:

- (a) Optional indicator for supplemental notch toughness, diffusible hydrogen and resistance to coating moisture absorption have been added to the designation system of electrodes.
- (b) Classification designation EXX19 has been added, and classification designation EXX45 deleted.
- (c) Impact test grades and requirements have been reviewed.
- (d) Diffusible hydrogen levels requirements have been reviewed.
- (e) Coating moisture absorption resistance test has been added.

In addition, editorial changes and adjustments have been made, including the following:

- (i) Update of referenced Standards.
- (ii) Alignment with current Standards Australia policy.

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

This Standard has undergone a considerable number of changes and revisions. Details of the publishing history can be obtained from Standards Australia's Information Centre and from Standards New Zealand's Information Centre.

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