

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2205.5.1—2003

**Methods for destructive testing of welds in metal
Method 5.1: Macro metallographic test for cross-section examination**

RECONFIRMATION NOTICE

Major stakeholders of this publication have reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 12 January 2018.

NOTES

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Methods for destructive testing of welds in metal

Method 5.1: Macro metallographic test for cross-section examination

PREFACE

This Standard was prepared by the Standards Australia Committee WD-006, Testing of Welds, to supersede AS 2205.5.1—1997.

The objective of this edition is to update the Standard and include editorial changes in accordance with current Standards Australia editorial policy.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

METHOD

1 SCOPE

This Standard sets out a method for macro testing of a welded joint. The test reveals the weld shape, the extent of penetration and the soundness of the welded joint.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 1863 Coated abrasives (technical products)
- 2205 Methods for destructive testing of welds in metal
- 2205.1 Method 1: General requirements for tests
- 2205.6.1 Method 6.1: Weld joint hardness test
- 2243 Safety in laboratories
- 2243.1 Part 1: General
- 2243.2 Part 2: Chemical aspects

3 PRINCIPLE

A cross-section of a welded joint is prepared in a specified manner and examined visually.

4 PREPARATION OF TEST SPECIMEN

The test specimen shall be prepared in accordance with the requirements of AS 2205.1 and the following:

- (a) The test specimen shall be detached from the weld zone as specified in the relevant application Standard to the dimensions indicated in Figure 1.