

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2205.3.2—2003

**Methods for destructive testing of welds in metal
Method 3.2: Transverse free bend test**

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

Australian Standard™

AS 2205.3.2

Methods for destructive testing of welds in metal

Method 3.2: Transverse free bend test

PREFACE

This Standard was prepared by the Standards Australia Committee WD-006, Testing of Welds, to supersede AS 2205.3.2—1997.

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

METHOD

1 SCOPE

This Standard sets out a method for transverse free bend testing of a welded joint up to 12 mm thick.

2 APPLICATION

The test is recommended only as an alternative to the transverse guided bend test (see AS 2205.3.1) when the equipment for that test is not available.

If the bend cannot be made to occur about the weld centre with a reasonably uniform plastic strain over the weld zone, the choice of this test is inappropriate. Localized preferential bending of one part of the weld zone may indicate deficiencies in the welding procedure. If consistent difficulty is encountered in performing the test, reference should be made to the application Standard and to the interested parties, for consideration of the substitution of one of the types of guided bend tests for this test.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

2205 Methods for destructive testing of welds in metal

2205.1 Method 1: General requirements for tests

2205.3.1 Method 3.1: Transverse guided bend test

4 PRINCIPLE

The face or root surface of a weld, which transversely bisects the test specimen, is placed in tension by bending without using a former, then examined to assess the soundness and transverse ductility of the joint at the weld zone.