

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2505.2—2004

Metallic materials

Method 2: Bars, rods and solid shapes—Bend tests

RECONFIRMATION NOTICE

Technical Committee MT-009 has 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 20 March 2017.

The following are represented on Technical Committee MT-009:

Australasian Institute of Surface Finishing
Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Steel Institute
Bureau of Steel Manufacturers of Australia
Galvanizers Association of Australia
Galvanizing Association of New Zealand
New Zealand Metal Roofing Manufacturers

NOTES

Australian Standard™

Metallic materials

Method 2: Bars, rods and solid shapes—Bend tests

AS 2505.2—2004

PREFACE

This Standard was prepared by Standards Australia Committee MT-006, Mechanical Testing of Metals to supersede AS 2505.2—1989, *Methods for bend and related testing of metals*, Method 2: *Bars, rods and solid shapes*.

The objective of this revision is to introduce new testing and reporting requirements for bend tests for bars, rods and solid shapes.

This Standard is Method 2 of a series of Standards on the methods of bending wire and related testing of metals. The series comprises the following Methods:

AS

- 2505 Metallic materials
- 2505.1 Method 1: Sheet, strip and plate—Bend tests
- 2505.2 Method 2: Bars, rods and solid shapes—Bend tests (this Method)
- 2505.3 Method 3: Tubular products—Bend and related tests
- 2505.4 Method 4: Wire—Reverse bend test
- 2505.5 Method 5: Wire—Simple torsion test
- 2505.6 Method 6: Wire—Wrapping test

This Standard does not cover bend testing of welds, which is dealt with in the series of Standards, AS 2205, *Methods of destructive testing of welds in metals*.

METHOD

1 SCOPE

This Standard specifies methods for simple and reverse bend testing in the longitudinal direction of coated and uncoated metal bars, rods and solid shapes.

NOTES:

- 1 Criteria for assessment of the results of tests are not included; they are specified in appropriate product Standards.
- 2 Where angles of bend of test pieces are specified in product Standards, they are deemed to be minimum angles. However, where radii of bends of mandrels or formers are specified, they are deemed to be maximum radii.

2 DEFINITIONS

For the purpose of this Standard, the definitions below apply.