

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2331.1.3—2001

**Methods of test for metallic and related coatings
Method 1.3: Local thickness tests—Magnetic method**

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™

AS 2331.1.3

Methods of test for metallic and related coatings Method 1.3: Local thickness tests—Magnetic method

PREFACE

This Standard has been prepared by the Joint Standards Australia/Standards New Zealand Committee MT-009, Metal Finishing, to supersede AS 2331.1.3—1980. It is the result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard. The objective of this revision is to upgrade the requirements so that they closely align with ISO 2178:1982, *Non-magnetic coatings on magnetic substrates—Measurement of coating thickness—Magnetic method*.

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 specifies the method of using coating thickness instruments of the magnetic type for non-destructive measurements of the thickness of non-magnetic coatings (including vitreous and porcelain enamel coatings) on magnetic basis metals.

The method is applicable only for measurements on reasonably flat specimens. In the case of nickel coatings on non-magnetic substrates, the preferred method is that specified in AS 2331.1.4 or in ISO 2361.

NOTE: Factors relating to measuring accuracy are given in Appendix A.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

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|----------|---|
| 2331 | Methods of test for metallic and related coatings |
| 2331.1.1 | Method 1.1: Local thickness tests—Micrographic examination of cross-sections |
| 2331.1.4 | Method 1.4: Local thickness tests—Magnetic induction and eddy current methods |

ISO

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| 2064 | Metallic and other inorganic coatings—Definitions and conventions concerning the measurement of thickness |
| 2361 | Electrodeposited nickel coatings on magnetic and non-magnetic substrates—Measurement of coating thickness—Magnetic method |

