

STANDARDS AUSTRALIA

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RECONFIRMATION

OF

AS 2331.1.6—2004

Methods of test for metallic and related coatings  
Method 1.6: Local thickness tests—Taper section method

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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

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## Australian Standard™

AS 2331.1.6

**Methods of test for metallic and related coatings****Method 1.6: Local thickness tests—Taper section method**

## PREFACE

This Standard has been prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee MT-009, Metal Finishing, to supersede AS 2331.1.6—1990.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard, rather than an Australian/New Zealand Standard.

The objective of this Standard is to revise the requirements for the Taper Section Method for determining local thickness so they are closely aligned with ISO 4524-3:1985, *Metallic coatings—Test methods for electrodeposited gold and gold alloy coatings*, Part 3: *Electrographic tests for porosity*.

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 measuring the local thickness of metallic coatings on various substrates by micrographic examination of a taper cross-section. The method is normally applicable to coatings less than 5 µm thick. At this thickness level, an error of up to ±10% can be expected.

NOTE: The method is suitable for use only by personnel experienced in metallography and in the use of the appropriate equipment.

**2 REFERENCED DOCUMENTS**

The following document is referred to in this Standard:

- AS  
2331 Methods of test for metallic and related coatings  
2331.1.1 Method 1.1: Local thickness tests—Micrographic examination of cross-sections

**3 DEFINITION**

For the purpose of this Standard, the definition below applies.