STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 2331.3.6—2001
Methods of test for metallic and related coatings
Method 3.6: Corrosion and related property tests—Electrographic porosity test

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

AS 2331.3.6—2001
Reconfirmed 2017

Australian Standard™

Methods of test for metallic and related coatings

Method 3.6: Corrosion and related property tests—Electrographic porosity test

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 2331.3.6—1980. 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 revision is to upgrade the requirements so that they closely align with ISO 4524-3:1985, *Metallic coatings—Test methods for electrodeposited gold and gold alloy coatings—* Part 3: *Electrographic tests for porosity.*

METHOD

1 SCOPE

This Standard sets out a method for the determination of the degree of porosity in gold and gold-alloy electroplated coatings on copper base, nickel and tin-nickel alloys. This method utilizes the passage of current through a gelatinized electrolyte.

NOTES:

1 The method may be considered a variant of electrography which is usually carried out with the aid of paper soaked in a special test solution. Compared with electrography, this method has some advantages, e.g. it can be used on curved surfaces with minimum spreading of the coloured spots from the pores.

2 The test procedures described in this Standard do not necessarily include all of the precautions required to satisfy health and safety aspects. Care should be taken to ensure that the procedures are carried out only by people who have received suitable training. Guidance in the handling and use of hazardous chemicals is given in AS/NZS 2243.1 and AS/NZS 2243.2.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS
2243 Safety in laboratories
2243.1 Part 1: General
2243.2 Part 2: Chemical aspects

ISO
3696 Water for analytical laboratory use—Specification and test methods

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