

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2331.4.7—2006

**Methods of test for metallic and related coatings
Method 4.7: Physical tests—Resistance to scratching**

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
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Bureau of Steel Manufacturers of Australia
Galvanizers Association of Australia
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New Zealand Metal Polishing Manufacturers

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Methods of test for metallic and related coatings

Method 4.7: Physical tests—Resistance to scratching

PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee MT-009, Metal Finishing.

After consulting 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 specify a procedure for determining the scratch resistance of organic coatings on metallic substrates.

This Standard is Part 4.7 of a series of Standards covering the methods of tests for metallic and related coatings.

During the preparation of this Standard cognizance was taken of EN 13523-0:2001, *Coil coated metals—Test methods, Part 0: General introduction and list of test methods and* EN 13523-12:2004, *Coil coated metals—Test methods, Part 12: Resistance to scratching.*

METHOD

1 SCOPE

This Standard specifies a method for determining the resistance of an organic coating on a metallic substrate to penetration by scratching with a needle.

On soft materials such as aluminium alloys and thin gauge steels substrates below 0.4 mm the needle may deform the substrate rather than scratch the surface. If the substrate is deformed then this test is not valid.

Soft coatings such as polyvinylchloride (PVC) and structured coatings may not give precise results due to the soft nature of the coating and/or the potential for the needle to snag. This method is not applicable to conductive coatings.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS 2483	Metal finishing—Recommended sampling plans for the inspection and testing of coatings (ISO 4519:1980, MOD)
4108	Metal finishing—Glossary of terms in electroplating and related processes