

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 1580.107.3:1997

Paints and related materials— Methods of test

Method 107.3: Determination of wet film thickness by gauge

RECONFIRMATION NOTICE

Technical Committee CH-003 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 30 May 2013.

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The following are represented on Technical Committee CH-003:

Australasian Corrosion Association
Australian Paint Approval Scheme
Australian Paint Manufacturers' Federation
Australian Pipeline Industry Association
Institution of Professional Engineers New Zealand
Master Painters New Zealand Association
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NOTES

Australian/New Zealand Standard®

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH/3, Paints and Related Materials, to supersede AS 1580.107.3—1992, Method 107.3: *Determination of wet film thickness by wheel gauge*.

This Standard differs from the previous edition in that the comb gauge method (Method B) has been added.

METHOD

1 SCOPE This Standard sets out two procedures for the determination of the wet film thickness of paint and related materials on smooth, rigid surfaces using a wheel gauge or a comb gauge.

The comb gauge may be used for quality control purposes for an approximate indication of wet film thickness when a coating is applied as specified.

2 REFERENCED DOCUMENT The following document is referred to in this Standard:

ASTM

D 1212 Test methods for measurement of wet film thickness of organic coatings

3 PRINCIPLE The wet film is measured using one of the following methods:

- (a) *Method A*—a wheel gauge is rolled through the wet film; the point at which an eccentric centre rim contacts the film is noted, and taken to be indicative of the wet film thickness.
- (b) *Method B*—a comb gauge is inserted in the wet film, normal to the coated surface, and is then examined to determine the shortest tooth touching the coating.

4 APPARATUS

4.1 Method A A wheel gauge consisting of an eccentric centre rim supported by two concentric outer rims, as shown in Figure 1. As the gauge is rolled through the wet film there is a change in clearance between the wet film and the eccentric rim. The point at which the film first touches the centre rim indicates the thickness of the film. This may be read on a scale on one side of the instrument reading in each direction from the point of minimum gap. Gauges are available covering the ranges given in Table 1.