STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 2331.3.8—2001
Methods of test for metallic and related coatings
Method 3.8: Corrosion and related property tests—Humidity test—24 h cycle, damp heat

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 2331.3.8—2001
Reconfirmed 2017

Australian Standard™

Methods of test for metallic and related coatings

Method 3.8: Corrosion and related property tests—Humidity test—24 h cycle, damp heat

1 SCOPE

This Standard sets out a method for assessing the suitability of inorganic and organic coatings for use in, or to be stored under, conditions of high humidity and subject to temperature fluctuations.

NOTES:

1 The method does not specify the type of test item, the number of cycles or the assessment criteria. Such details are normally specified in the product standard or determined by agreement between contracting parties.

2 Results obtained from the test should not be regarded as having a direct correlation with all environments in which such items may be exposed or with the relative corrosion resistance of different coatings

2 REFERENCED DOCUMENT

The following document is referred to in this Standard:

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

3 PRINCIPLE

Coatings are exposed to controlled conditions of humidity and condensation by heating and cooling them in a cabinet.

The degree of corrosion or deterioration of the coating and/or of the substrate is used to assess the quality of the coating against the conditions of the test.

4 REAGENTS

The water used shall be distilled or deionized having a conductivity of not greater than 20 μS/cm.

NOTE: A test method for determining conductivity of water for analytical use is given in ISO 3696.

5 APPARATUS

The following apparatus is required:

(a) *Humidity cabinet*

A humidity cabinet and accessories manufactured from, or lined with, material resistant to the test temperature and to corrosion by water. Its materials of construction shall be such that they do not affect the results of testing.

The shape of the upper parts of the cabinet shall be designed to ensure that drops of condensed water do not drip onto test pieces.