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AS 2331.2.3-2001 (R2017) Methods of test for metallic and related coatings - Method 2.3: Local thickness tests - Tests for average coating mass per unit area or for thickness - Hydrogen evolution method for zinc coatings

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Abbreviation

AS 2331.2.3-2001

Valid from

17/07/2001

Information provider

SAI Global

Author

Standards Australia

Information type

Australian Standard

Format

PDF

Cited By

[This resource is cited by 3 documents \(show Citations\)](#)

Description

This Standard sets out the hydrogen evolution method for the determination of the average mass per unit area, or thickness, of zinc coatings on steel. The test requires the use of apparatus to measure the volume of hydrogen liberated resulting from the dissolution of the coating.

Scope

The method is suitable for the testing of items which have a surface area that can be calculated to within an accuracy of 1%. The method is normally accurate to within 5%.

Notes:

1. A specialized version of this Method and apparatus for testing zinc coatings on wire is described in AS/NZS 4534.
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.

Standard was reconfirmed on 20 March 2017

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- [AS 1214-1983](#)

AS 2331.2.3-2001 is cited by AS 1214-1983 Hot-dip galvanised coatings on threaded fasteners (ISO metric coarse thread series)

- [AS 1397-2011](#)

AS 2331.2.3-2001 is cited by AS 1397-2011 Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium

- [AS/NZS 4680:2006](#)

AS 2331.2.3-2001 is cited by AS/NZS 4680:2006 (R2017) Hot-dip galvanised (zinc) coatings on fabricated ferrous articles

AS 2331.2.3-2001 (R2017) Methods of test for metallic and related coatings - Method 2.3: Local thickness tests - Tests for average coating mass per unit area or for thickness - Hydrogen evolution method for zinc coatings

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