

Australian Standard™

**Electroplated coatings—Tin and tin
alloys (ISO 2093:1986, MOD)**



This Australian Standard was prepared by Committee MT-009, Metal Finishing. It was approved on behalf of the Council of Standards Australia on 27 January 2004 and published on 16 March 2004.

The following are represented on Committee MT-009:

Australian Institute of Metal Finishing
Australian Aluminium Council
Australian Industry Group
Australian Paint Manufacturer's Federation
Department of Defence
Galvanizers Association of Australia
Powder Coaters Association
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This Standard was issued in draft form for comment as DR 03643.

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 4169—2004

Electroplated coatings—Tin and tin alloys (ISO 2093:1986, MOD)

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 20 March 2017.

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NOTES

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Originated as AS K141—1966.
Previous edition AS 4169—1994.
Second edition 2004.

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Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia
ISBN 0 7337 5761 8

PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee MT-009, Metal finishing to supersede AS 4169—1994, *Electroplated coatings—Tin and tin alloys*.

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.

This Standard is an adoption with national modifications and is reproduced from ISO 2093:1986, *Electroplated coatings of tin—Specification and test methods*.

Variations to the ISO text for Australia are set out in Appendix ZZ. Changes to the ISO text are indicated by marginal bars.

This Standard is a modification of ISO 2093:1986 in which an additional clause has been included to prevent metallic whisker growth.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
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References to International Standards should be replaced by Australian Standards, as follows:

<i>References to International Standard</i>		<i>Australian Standard</i>	
ISO		AS	
1463	Metallic and oxide coatings—Measurement of coating thickness—Microscopical method	2331	Methods of test for metallic and related coatings
		2331.1.1	Method 1.1: Local thickness tests—Micrographic examination of cross-sections
2177	Metal coatings—Measurement of coating thickness—Coulometric method by anodic dissolution	2331.1.2	Method 1.2: Local thickness tests—Coloumetric methods
2819	Metallic coatings on metallic substrates—Electrodeposited and chemically deposited coatings—Review of methods available for testing adhesion	2331.4.1	Physical tests—Qualitative adhesion tests
2859	Sampling procedures and tables for inspection by attribute	1199	Sampling procedures for inspection by attributes
		1199.1	Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection.
3543	Metallic and non-metallic coatings—Measurements of thickness—Beta backscatter method	2331.1.5	Method 1.5: Local thickness tests—Beta back-scatter method

References to International Standard

ISO

3768 Metallic coatings—Neutral salt spray
test (NSS test)*Australian Standard*

AS

2331.3.1 Method 3.1: Corrosion and related
property tests—Neutral salt spray
(NSS) test

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix or annex to which they apply. A ‘normative’ appendix or annex is an integral part of a Standard, whereas an ‘informative’ appendix or annex is only for information and guidance.