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AS/NZS 4534:2006 (R2017) Zinc and zinc/aluminium-alloy coatings on steel wire

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Abbreviation

AS/NZS 4534:2006

Valid from

18/07/2006

Replaces

[AS/NZS 4534:1998](#)

Information provider

Standards New Zealand

Author

Standards New Zealand, Standards Australia

Information type

New Zealand Standard

Format

PDF

Cited By

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Cites

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Description

This Standard specifies requirements for the mass, quality and testing of zinc coatings and

zinc/aluminium-alloy coatings on steel wire of circular or non-circular (shaped) cross section. The coatings are applied in a continuous process and may be formed either by the application of molten metal or by electrodeposition.

Six standard coating mass classes and a range of special coating mass classes are covered. The standard classes are intended, in general, for applications subjected to normal atmospheric corrosion conditions, whereas the special classes are specifically designed to provide acceptable durability under severe to extreme service conditions, such as for prolonged immersion in freshwater or seawater.

Scope

This Standard applies to coatings on wire at its final size, whether or not the coating has been applied after final cold working, prior to cold working, or at an intermediate stage of cold working. Matters not relating to the coating itself are outside the scope of this Standard.

This Standard does not apply to coatings on articles that have been fabricated from uncoated steel wire and which have subsequently been coated with zinc or zinc/aluminium alloy, except where the coating has been applied in a specialized continuous process (e.g. for wire netting) as opposed to batch treatment (e.g. for nails).

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- [E2/AS1 \(Third Edition, Amendment 5, Errata 2\)](#)

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- [E2/AS1 \(Third Edition, Amendment 8\)](#)

AS/NZS 4534:2006 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011

- [E2/AS1 \(Third Edition, Amendment 7\)](#)

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- [E2/AS1 \(Third Edition, Amendment 5\)](#)

AS/NZS 4534:2006 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011

- [E2/AS1 \(Third Edition, Amendment 6\)](#)

AS/NZS 4534:2006 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011

- [NZS 3604:2011](#)

AS/NZS 4534:2006 is cited by NZS 3604:2011 Timber-framed buildings

- [SNZ TS 3404:2018](#)

AS/NZS 4534:2006 is cited by SNZ TS 3404:2018 Durability requirements for steel structures and components

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This document CITES:

Australian Standards

- [AS 1242-1985](#)

AS/NZS 4534:2006 cites AS 1242-1985 Zinc ingots

- [AS 1329.1-1994 \(2016\)](#)

AS/NZS 4534:2006 cites AS 1329.1-1994 (2016) Methods for the analysis of zinc and zinc alloys - Determination of aluminium content - Titrimetric method

- [AS 1789-2003](#)

AS/NZS 4534:2006 cites AS 1789-2003 Electroplated zinc (electrogalvanized) coatings on ferrous articles (batch process)

- [AS 2331.1.4-2001](#)

AS/NZS 4534:2006 cites AS 2331.1.4-2001 Methods of test for metallic and related coatings - Method 1.4: Local thickness tests - Magnetic induction and eddy current methods

- [AS 2505.6-2002](#)

AS/NZS 4534:2006 cites AS 2505.6-2002 Metallic materials - Wire - Wrapping test

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