

Australian Standard™

**Coated steel wire fencing products for
terrestrial, aquatic and general use**

This Australian Standard was prepared by Committee MT-001, Iron and Steel. It was approved on behalf of the Council of Standards Australia on 14 July 2002 and published on 24 July 2002.

The following are represented on Committee MT-001:

Australasian Railway Association
Australian Building Codes Board
Australian Foundry Institute
Australian Industry Group
Australian Institute of Steel Construction
Bureau of Steel Manufacturers of Australia
Institute of Materials Engineering Australasia

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2423—2002

Coated steel wire fencing products for terrestrial, aquatic and general use

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Technical Committee MT-001 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.

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NOTES

Australian Standard™

**Coated steel wire fencing products for
terrestrial, aquatic and general use**

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee MT-001, Iron and Steel, to supersede AS 2423—1991, *Galvanized wire fencing products*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian rather than an Australian/New Zealand Standard.

The objective of this Standard is to ensure that the requirements and options for zinc/aluminium-alloy coated steel wire products are met for a broad range of applications including marine and general uses for fencing applications.

This revision now includes requirements for zinc/aluminium-alloy coatings and organic coatings together with comprehensive information on product durability. The range of fencing materials has been extended to cover welded mesh fabrics and specialized products for aquatic enclosures.

In preparing this Standard cognizance was taken of ISO 7900:1988, *Zinc-coated steel wire for fencing*. This International Standard was not adopted because its scope is limited to zinc-coated single-strand wires. It does not cover any fabricated fencing products, nor zinc/aluminium-alloy coatings or supplementary organic coatings.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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

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STANDARDS AUSTRALIA

Australian Standard

Coated steel wire fencing products for terrestrial, aquatic and general use

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements, and sets out options, for zinc or zinc/aluminium-alloy coated steel wire and wire products for a broad range of fences, trellises, enclosures and the like. Terrestrial, aquatic (notably marine) and general uses are covered.

In addition, the Standard provides for the optional application of organic coatings, such as paints and plastics, on the metallic coated wire and wire products.

The following types of fencing product are included in the Standard:

- (a) Wires (single strand) for direct use and for conversion into fabricated products.
- (b) Barbed wire.
- (c) Wire netting.
- (d) Chain-link fencing fabric.
- (e) Prefabricated field fencing fabric.
- (f) Lightweight and mediumweight welded mesh fabric.
- (g) Heavyweight welded mesh fabric (panels).
- (h) Specialized products for aquatic enclosures.

Only specialized, continuous or in-line processes, both hot-dip and electrolytic, are specified for application of the zinc or zinc/aluminium-alloy coating to single-strand wires and most of the fabricated products. The main exception is for heavyweight welded mesh fabric where the batch hot-dip process is commonly used to apply the metallic coating.

This Standard does not apply to some products that are employed for specialized uses, even though the same, or very similar, requirements and specifications may be applicable. One such product, welded wire fabric for life safety applications, is covered by AS/NZS 4389.

NOTES:

- 1 Advice and recommendations on information to be supplied by the purchaser at the time of enquiry and order are contained in the purchasing guidelines set out in Appendix A.
- 2 Means for determining compliance with this Standard are given in Appendix B.
- 3 Where the term 'fence' or 'fencing' is used in a non-specific context in this Standard, it implies any of the products and applications covered by this Standard.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1199 Sampling procedures and tables for inspection by attributes

1391 Methods for tensile testing of metals