

Steel wire and wire products — Non-ferrous metallic coatings on steel wire —

Part 2: Zinc or zinc alloy coatings

The European Standard EN 10244-2:2001 has the status of a British Standard

ICS 25.220.40; 77.140.65

National foreword

This British Standard is the official English language version of EN 10244-2:2001, including corrigendum April 2001. It supersedes BS 443:1982 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ISE/26, Steel wire, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

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The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 16, an inside back cover and a back cover.

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English version

Steel wire and wire products — Non-ferrous metallic coatings on steel wire — Part 2: Zinc or zinc alloy coatings

Fils et produits tréfilés en acier — Revêtements métalliques non ferreux sur fils d'acier — Partie 2: Revêtements de zinc ou d'alliage de zinc

Stahldraht und Drahterzeugnisse — Überzüge aus Nichteisenmetall auf Stahldraht — Teil 2: Überzüge aus Zink und Zinklegierungen

This European Standard was approved by CEN on 21 January 2001.

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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by Technical Committee ECISS/TC 30, Steel wires, the Secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2001, and conflicting national standards shall be withdrawn at the latest by September 2001.

This European Standard for non-ferrous metallic coating on steel wire is made up of the following parts:

Part 1: General principles

Part 2: Zinc and zinc alloy coatings

Part 3: Aluminium coatings

Part 4: Tin coatings

Part 5: Nickel coatings

Part 6: Copper, bronze and brass coatings

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This part of this European Standard specifies the requirement for coating mass, other properties and testing of zinc and zinc alloy coatings on steel wire and steel wire products of circular or other section.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 1179, *Zinc and zinc alloys — Primary zinc*

EN 10218-1, *Steel wire and wire products — General — Part 1: Test methods*

EN 10244-1, *Steel wire and wire products — Non-ferrous metallic coatings on steel wire — Part 1: General principles*

ISO 7989, *Zinc coatings for steel wire*

ASTM B 750, *Standard Specification for Zinc-5% Aluminium-Mischmetal¹ Alloy in Ingot Form for Hot-Dip Coatings*

3 Terms and definitions

For the purposes of this European standard the following terms and definitions apply.

3.1

wire with zinc or zinc alloy coating

wire to which zinc or zinc alloy coating has first been applied to protect it against corrosion. The coating method may be hot dipping in a bath of molten zinc or by means of an aqueous solution of suitable electrolyte. In the hot dipping process wiping media may be used to modify the mass of coating

3.2

zinc or zinc alloy coating

zinc alloy is zinc to which other elements are added deliberately in order to obtain particular characteristics. In all cases the quantity of zinc in the alloy shall be minimum 50 %. The most common alloy elements are aluminium, tin, nickel but other elements may also be considered

3.3

mass of coating

mass of zinc per unit of surface area is expressed in grams per square metre of surface of bare wire

¹ Mischmetal is a mixture of rare earth metals (La and others) which is a by product from zinc production