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STANDARDS
INSTITUTE

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Steel wire and wire products – Non-ferrous metallic coatings on steel wire – Part 3: Aluminium coatings

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Swedish Standards corresponding to documents referred to in this Standard are listed in "Catalogue of Swedish Standards", issued by SIS. The Catalogue lists, with reference number and year of Swedish approval, International and European Standards approved as Swedish Standards as well as other Swedish Standards.

Tråd och trådprodukter av stål – Beläggning av icke-järnmetall – Del 3: Beläggning av aluminium

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Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 3: Aluminium coatings

Fils et produits tréfilés en acier - Revêtements métalliques non ferreux sur fils d'acier - Partie 3: Revêtements d'aluminium

Stahldraht und Drahterzeugnisse - Überzüge aus Nichteisenmetall auf Stahldraht - Teil 3: Überzüge aus Aluminium

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

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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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of an identical text or by endorsement, at the latest by September 2001, and conflicting national standards shall be withdrawn at the latest by September 2001.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 requirements for the mass other properties and testing of aluminium coatings on steel wire and steel wire products of circular or other cross-section.

2 Normative reference

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

ASTM A428, *Test method for determining the mass of aluminium coating on steel products*

3 Terms and definitions

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

3.1

wire with aluminium coating

wire to which an aluminium coating has been applied primarily to protect it against corrosion and/or to improve its electrical conductivity. The coating is generally applied by passing the wires individually through a bath of molten aluminium, by extrusion or by cladding

3.2

mass of coating

the mass of aluminium per unit area is expressed in grams per square meter of stripped wire surface. In the case of thick coatings, the quantity of aluminium on the wire may also be expressed by the radial thickness

4 Requirements relating to coating

4.1 Material

The ingot of unrefined aluminium used for the coating shall consist of aluminium with less than following impurities.

Copper (Cu) 0,10 % max. in mass %

iron (Fe) 0,50 % max. in mass %

4.2 Coating mass

The minimum mass of aluminium per unit surface area shall comply with the requirements of Table 1.