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

**Part 2:  
Zinc or zinc-alloy coating**

*Fils et produits tréfilés en acier — Revêtements métalliques non ferreux sur fils d'acier —*

*Partie 2: Revêtements de zinc ou d'alliages de zinc*



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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 7989-2 was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 17, *Steel wire rod and wire products*.

This first edition of ISO 7989-2, together with ISO 7989-1, cancels and replaces ISO 7989:1988, which has been technically revised.

ISO 7989 consists of the following parts, under the general title *Steel wire and wire products — Non-ferrous metallic coatings on steel wire*:

- *Part 1: General principles*
- *Part 2: Zinc or zinc-alloy coating*

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

## Part 2:

## Zinc or zinc-alloy coating

### 1 Scope

This part of ISO 7989 specifies the requirements for the coating mass per unit area, for other properties and also for testing of zinc or zinc-alloy coatings on steel wire and steel wire products, of circular or other section.

### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1460:1992, *Metallic coatings — Hot dip galvanized coatings on ferrous materials — Gravimetric determination of the mass per unit area*

ISO 7802:1983, *Metallic materials — Wire — Wrapping test*

ISO 7989-1:2006, *Steel wire and wire products — Non-ferrous metallic coatings on steel wire — Part 1: General principles*

### 3 Terms and definitions

For the purposes of this document, 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

NOTE 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 coating mass per unit area.

#### 3.2

##### **zinc or zinc alloy coating**

coating composed of zinc or zinc alloy, where the zinc alloy is zinc to which other elements have been deliberately added in order to obtain particular characteristics, and in which the quantity of zinc is at least 50 %

NOTE The most common alloy elements are aluminium, tin and nickel, but other elements may also be considered.

#### 3.3

##### **coating mass per unit area**

mass of zinc or zinc alloy per unit of surface area of bare wire

NOTE This is expressed in grams per square metre of surface.