SLOVENSKI STANDARD
oSIST prEN 10264-2:2008

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Jeklena žica in žični izdelki - Jeklena žica za vrvi - 2. del: Hladno vlečena nelegirana jeklena žica za vrvi za splošno uporabo

Steel wire and wire products - Steel wire for ropes - Part 2: Cold drawn non alloy steel wire for ropes for general applications

Stahldraht und Drahterzeugnisse - Stahldraht für Seile - Teil 2: Kaltgezogener Draht aus unlegiertem Stahl für Seile für allgemeine Verwendungszwecke

Fils et produits tréfilés en acier - Fils pour câbles - Partie 2: Fil écroui à froid par tréfilage en acier non allié pour câbles d'usage courant

Ta slovenski standard je istoveten z: **prEN 10264-2**

ICS:

77.140.45	Nelegirana jekla	Non-alloyed steels
77.140.65	Jeklene žice, jeklene vrvi in verige	Steel wire, wire ropes and link chains

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EUROPEAN STANDARD

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ICS 77.140.65

Will supersede EN 10264-2:2002

English Version

Steel wire and wire products - Steel wire for ropes - Part 2: Cold drawn non alloy steel wire for ropes for general applications

Fils et produits tréfilés en acier - Fils pour câbles - Partie 2: Fil écroui à froid par tréfilage en acier non allié pour câbles d'usage courant

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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Foreword

This document (prEN 10264-2:2008) has been prepared by Technical Committee ECISS/TC 30 “Steel wires”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 10264-2:2002.

This European Standard for wire for ropes is made up of the following parts:

— *Part 1: General requirements*

— *Part 2: Cold drawn non alloy steel wire for ropes for general applications*

— *Part 3: Cold drawn and cold shaped non alloy steel wire for high duty applications*

— *Part 4: Stainless steel wire*

1 Scope

This part of this European Standard defines cold drawn non alloy steel wire used for the manufacture of:

— Ropes for general applications and lifts;

— Ropes for applications for which there is no specific EN standard.

This part of this standard does not apply to steel wire taken from manufactured ropes.

This part of this European standard specifies the following for cold drawn non alloy steel wire for ropes for general applications:

— dimensional tolerances;

— mechanical characteristics;

— requirements relating to the chemical composition of the steel wire;

— conditions to be satisfied by any coating.

In addition to the requirements of this part of this European standard, the requirements of EN 10264-1 also apply.

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.

EN 10016-1, *Non-alloy steel rod for drawing and/or cold rolling — Part 1: General requirements*.

EN 10016-2, *Non-alloy steel rod for drawing and/or cold rolling — Part 2: Specific requirements for general purposes rod*.

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

EN 10244-2, *Steel wire and wire products — Non-ferrous metallic coatings on steel wire — Part 2: Zinc or zinc alloy coatings*.

EN 10264-1, *Steel wire and wire products — Steel wire for ropes — Part 1: General requirements.*

3 Product designation

The designation of round wire for ropes, covered by this part of EN 10264, shall be based on the nominal diameter (d), surface appearance and tensile strength classification. The abbreviation for the surface finish condition is:

— U (uncoated) for bright wire;

— A or B for zinc or zinc alloy coating depending on coating class.

A distinction is made between a zinc and a zinc alloy coating by the addition in brackets of “Zn/Al” for the zinc alloy.

EXAMPLE 1:

Wire for rope for general applications with nominal diameter d = 1,5 mm, surface appearance bright (U), tensile strength grade 1 770 MPa.

Designation rope wire EN 10264- 2 — 1,5 — U — 1 770

EXAMPLE 2:

Wire for rope for general applications with a nominal diameter d = 2,5 mm, zinc coated class A, tensile strength grade 1 370 MPa.

Designation rope wire EN 10264-2 — 2,5 — A — 1 370

EXAMPLE 3:

Wire for rope for general applications with a nominal diameter d = 1,8 mm, coated with zinc alloy, class B, tensile strength grade 1 770 MPa.

Designation rope wire EN 10264- 2 — 1,8 — B(Zn/Al) — 1 770

4 General conditions of manufacture

The drawn wire shall be manufactured using wire rod in accordance with EN 10016-1 and EN 10016-2.

The finished wire shall show no surface defects or internal defects prejudicial to its use.

When specified, drawn wire shall be supplied with zinc coating or Zn95/Al5 coating. Unless otherwise specified, the zinc used for the zinc coating shall have a purity of 99,9 %, other zinc alloys are subject to agreement.

NOTE If required by the purchaser, the quality of the zinc or zinc alloy used for the coating material should be certified by the manufacturer. Because of the reaction between the base material and coating material, which is inherent to the process, the composition of the coating on the wire is different to that of the coating bath.

5 Characteristics of wire

5.1 Tensile strength grades

The tensile strength grades are specified in Table 1.

Additional grades are possible by agreement between supplier and user at the time of order.

Table 1 — Tensile strength grades and ranges of nominal diameters

Tensile strength grade MPa[a]	Range of nominal diameters mm	
	Bright and coated[b] – Class B	Coated[b] – Class A
	Class B	Zinc or Zn95/Al5 Class A
1 180	0,20 to 1,80	—
1 370	0,20 to 7,00	0,70 to 7,00
1 570	0,20 to 7,00	0,70 to 7,00
1 770	0,20 to 6,00	0,70 to 6,20
1 960	0,20 to 5,00	0,70 to 4,20
2 160	0,20 to 4,00	—

a 1MPa = 1 N/mm^2

b Coated means zinc or Zn95/Al5 alloy.

5.2 Requirements for wire characteristics

The requirements for wire are specified in Table 2.