This is a free page sample. Access the full version online.

NSAI Standards

Irish Standard
I.S. EN 10264-1:2012

Steel wire and wire products - Steel wire for ropes - Part 1: General requirements

© NSAI 2012 No copying without NSAI permission except as permitted by copyright law.

This is a free page sample. Access the full version online.

I.S. EN 10264-1:2012

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces:
EN 10264-1:2002

This document is based on:
EN 10264-1:2012

Published:
23 January, 2012

This document was published under the authority of the NSAI and comes into effect on:
23 January, 2012

ICS number:
21.220.20
77.140.65

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie

W **NSAI.ie**

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

I.S. EN 10264-1:2002

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 10264-1

January 2012

ICS 77.140.65; 21.220.20

Supersedes EN 10264-1:2002

English Version

Steel wire and wire products - Steel wire for ropes - Part 1: General requirements

Fils et produits tréfilés en acier - Fils pour câbles - Partie 1: Prescriptions générales

Stahldraht und Drahterzeugnisse - Stahldraht für Seile - Teil 1: Allgemeine Anforderungen

This European Standard was approved by CEN on 19 November 2011.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

© 2012 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN 10264-1:2012: E

This is a free page sample. Access the full version online.

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 4

4 Information to be supplied by the client 5

5 Characteristics of and requirements for wire 5
5.1 Diameter tolerances 5
5.2 Tensile strength 5
5.2.1 Tensile strength grade - permitted variations 5
5.2.2 Procedure for tensile test 6
5.3 Reverse bend test 6
5.4 Torsion test 6
5.5 Tensile test on knotted wire 6
5.6 Coatings 7

6 Inspection documents 7

7 Sampling and compliance criteria 7

8 Marking 7

9 Protection against corrosion and type of packaging 8

Annex A (informative) **Definition of terms relating to sampling and acceptance** 9
A.1 General 9
A.2 Batch 9
A.3 Unit, production unit 9
A.4 Base unit for sampling (m_1) 9
A.5 Size of batch (N) 9
A.6 Sample for testing 10
A.7 Sampling length 10
A.8 Sampling 10
A.9 Sample size (n) 10
A.10 Defect 10
A.11 Defective length 10

This is a free page sample. Access the full version online.

Foreword

This document (EN 10264-1:2012) has been prepared by Technical Committee ECISS/TC 106 “Wire rod and wires”, the secretariat of which is held by AFNOR.

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 July 2012, and conflicting national standards shall be withdrawn at the latest by July 2012.

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

This document supersedes EN 10264-1:2002.

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: Round and shaped non alloyed steel wire for high duty applications*

— *Part 4: Stainless steel wire*

This European Standard has been technically revised to incorporate the following changes:

a) other tensile strength grades than those specified in EN 10264 parts 2, 3 and 4, have been allowed subject to an agreement between supplier and user at the time of order (see 5.2.1);

b) the length of the test sample given in the procedure for tensile test has been deleted in order to avoid misunderstanding (see 5.2.2);

c) the reverse bend test has been allowed for wires under 0,5 mm diameter, subject to an agreement between customer and supplier at the time of order (see 5.3);

d) the torsion test has been allowed for wires below 0,5 mm diameter, subject to an agreement between parties (see 5.4);

e) additional specifications have been added concerning the result of tensile test on knotted wire (see 5.5);

f) the clause on inspection documents has been simplified (see Clause 6);

g) for sampling and compliance criteria, the usage of statistical methods has been recommended, in order to reduce the number of tests required (see Clause 7);

h) the values of Table 2 "Size of batches and samples and number of results" have been modified as well as the titles of the third and fourth column concerning the number of results for compliance and non-compliance. The footnote b) has also been updated;

i) a general clause has been added for explaining the purpose of Annex A "Definition of terms relating to sampling and acceptance".

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

This is a free page sample. Access the full version online.

1 Scope

This part of this European Standard defines the general requirements for wire intended for mechanical steel ropes. Additional requirements are given in the following parts of this European Standard, which are specific to each category of wire.

This part of this European Standard specifies:

— dimensional tolerances;

— mechanical characteristics;

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

— conditions to be satisfied by any coating.

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 10021, *General technical delivery requirements for steel products*

EN 10204, *Metallic products — Types of inspection documents*

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

EN 10218-2, *Steel wire and wire products — General — Part 2: Wire dimensions and tolerances*

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

EN 10264-2, *Steel wire and wire products — Steel wire for ropes — Part 2: Cold drawn non alloy steel wire for ropes for general applications*

EN 10264-3, *Steel wire and wire products — Steel wire for ropes — Part 3: Round and shaped non alloyed steel wire for high duty applications*

EN 10264-4, *Steel wire and wire products — Steel wire for ropes — Part 4: Stainless steel wire*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
nominal diameter d
diameter used to designate the wire, expressed in millimetres and specified by the purchaser

NOTE It is the basis for the determination of the values of all the characteristics of the wire for acceptance purposes.

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation