SLOVENSKI STANDARD
SIST EN 10223-6:2013

01-marec-2013

Nadomešča:
SIST EN 10223-6:2000

Jeklena žica in žični izdelki za ograje - 6. del: Jeklen žični pletež s štirikotnimi zankami

Steel wire and wire products for fences - Part 6: Steel wire chain link fencing

Stahldraht und Erzeugnisse aus Stahldraht fûr Zäune - Teil 6: Stahldrahtgeflecht mit viereckigen Maschen

Fils et produits tréfilés en acier pour clôtures - Partie 6: Grillage à simple torsion

Ta slovenski standard je istoveten z: EN 10223-6:2012

ICS:

77.140.65	Jeklene žice, jeklene vrvi in verige	Steel wire, wire ropes and link chains
91.090	Konstrukcije zunaj stavb	External structures

SIST EN 10223-6:2013 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 10223-6

November 2012

ICS 77.140.65

Supersedes EN 10223-6:1998

English Version

Steel wire and wire products for fencing and netting - Part 6: Steel wire chain link fencing

Fils et produits tréfilés en acier pour clôtures et grillages - Partie 6: Grillage à simple torsion en acier

Stahldraht und Drahterzeugnisse für Zäune und Drahtgeflechte - Teil 6: Stahldrahtgeflecht mit viereckigen Maschen

This European Standard was approved by CEN on 13 October 2012.

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, Former Yugoslav Republic of Macedonia, 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

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 4

4 Information to be supplied by the purchaser 5

5 Manufacture 7
5.1 Base metal 7
5.2 Fabrication 7

6 Requirements 8
6.1 Tensile strength 8
6.2 Wire diameters, chain link mesh sizes, heights and tolerances 8
6.3 Coating 9
6.3.1 Zinc/zinc alloy coating 9
6.3.2 Organic coating material 9

7 Sampling and testing 9

8 Inspection documentation 9

9 Methods of test 9
9.1 Tensile testing 9
9.2 Coating tests 9
9.2.1 Zinc/zinc alloy coating 9
9.2.2 Organic coating material 9

10 Packaging 9

Foreword

This document (EN 10223-6:2012) 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 May 2013, and conflicting national standards shall be withdrawn at the latest by May 2013.

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 10223-6:1998.

EN 10223 "*Steel wire and wire products for fencing and netting*" consists of the following parts:

— *Part 1: Zinc and zinc-alloy coated steel barbed wire*

— *Part 2: Hexagonal steel wire netting for agricultural, insulation and fencing purposes*

— *Part 3: Hexagonal steel wire mesh products for engineering purposes*

— *Part 4: Steel wire welded mesh fencing*

— *Part 5: Steel wire woven hinged joint and knotted mesh fencing*

— *Part 6: Steel wire chain link fencing*

— *Part 7: Steel wire welded panels for fencing*

— *Part 8: Welded mesh gabion products*

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, 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.

1 Scope

This European Standard specifies dimensions, properties and coatings of steel wire chain link fencing.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 conditions 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 10218-2:2012, *Steel wire and wire products — General — Part 2: Wire dimensions and tolerances*

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

EN 10244-2:2009, *Steel wire and wire products — Non-ferrous metallic coatings on steel wire — Part 2: Zinc or zinc alloy coatings*

EN 10245-1, *Steel wire and wire products — Organic coatings on steel wire — Part 1: General rules*

EN 10245-2, *Steel wire and wire products — Organic coatings on steel wire — Part 2: PVC finished wire*

EN 10245-3, *Steel wire and wire products — Organic coatings on steel wire — Part 3: PE coated wire*

EN ISO 16120-1, *Non-alloy steel wire rod for conversion to wire — Part 1: General requirements (ISO 16120-1)*

EN ISO 16120-2, *Non-alloy steel wire rod for conversion to wire — Part 2: Specific requirements for general-purpose wire rod (ISO 16120-2)*

3 Terms and definitions

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

3.1
mesh size
distance measured at right angles internally between adjacent parallel wires (see Figure 1)

3.2
chain link fencing
fencing manufactured from the interlocking of steel wire helices which provide approximately square meshes (see Figure 2)

Note 1 to entry: Chain link fencing may be supplied knuckled (see Figure 3) or with barbed ends, i.e. adjacent pairs of wire ends twisted together and cut at an angle (see Figure 4). Any combination of these two presentations are used for the bottom and top of the fence.

4 Information to be supplied by the purchaser

The following information shall be supplied by the purchaser at the time of enquiry and order:

a) number of this European Standard;

b) quantity and type of winding (tight or loose);

c) zinc or zinc alloy coating type and class and if coating uniformity is to be measured;

d) organic coating type colour and degree of adhesion required;

e) mesh size;

f) wire size;

g) height in metres;

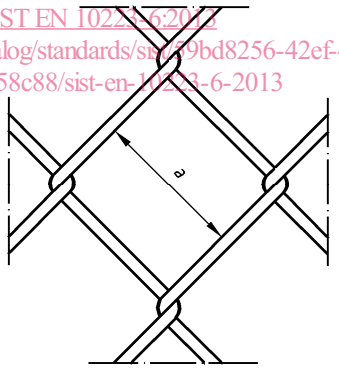
h) length of rolls;

i) whether barbed or knuckled;

j) tensile range;

k) inspection documentation requirements;

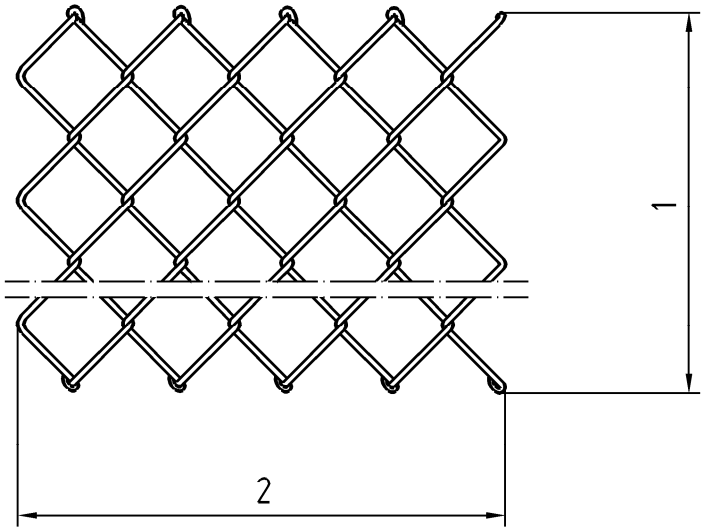
l) agreed quality characteristics for testing (see Clause 7).



Key

a distance measured at right angles

Figure 1 — Mesh size



Key

1 height
2 length

Figure 2 — Chain link fencing

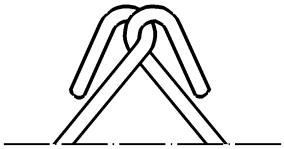


Figure 3 — Knuckled ends

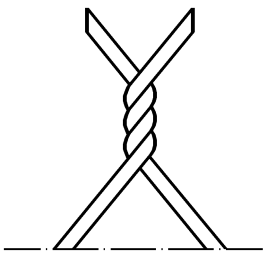


Figure 4 — Barbed ends

5 Manufacture

5.1 Base metal

The base metal of the chain link fencing shall be low carbon steel according to EN ISO 16120-1 and EN ISO 16120-2. The base wire shall be ordered as low tensile i.e. less than 600 N/mm^2 or high tensile greater than 600 N/mm^2. Within any one supplied lot the tensile spread shall not exceed 150 N/mm^2.

5.2 Fabrication

The fencing shall be fabricated from wires with the following types of coating:

a) zinc or zinc alloy coated to a minimum of EN 10244-1 and EN 10244-2:2009 complying with class A for Zn coatings and class B for Zn95/Al5 alloys (for similar service life), subsequently organic coated to the appropriate part of EN 10245-1, EN 10245-2 or EN 10245-3, either:

   1) extruded, not adherent;

   2) extruded, adherent;

   3) sintered;

b) zinc or zinc alloy coated to a minimum of EN 10244-1 and EN 10244-2:2009, class C, subsequently organic coated to the appropriate part of EN 10245-1, EN 10245-2 or EN 10245-3 either:

   1) extruded, non adherent;

   2) extruded, adherent;

   3) sintered;

c) zinc or zinc alloy coated to a minimum of EN 10244-1 and EN 10244-2:2009, class D, subsequently organic coated to the appropriate part of EN 10245-1, EN 10245-2 or EN 10245-3 either:

   1) extruded, non adherent;

   2) extruded, adherent;

   3) sintered;

d) zinc alloy Zn95/Al5 coated to a minimum of EN 10244-1 and EN 10244-2:2009, class A;

e) zinc coated to a minimum of EN 10244-1 and EN 10244-2:2009 complying with class A for Zn coatings and class B for Zn95/Al5 alloys (for similar service life);

f) zinc coated to a minimum of EN 10244-1 and EN 10244-2:2009, class C;

g) bright wire subsequently organic coated to the required part of EN 10245-1, EN 10245-2 and EN 10245-3.