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**Jeklena žica in žični izdelki za ograje - 3. del: Jeklena pletena mreža s šesterokotnimi zankami za tehnične namene**

Steel wire and wire products for fences - Part 3: Hexagonal steel wire netting for engineering purposes

Stahldraht und Drahterzeugnisse für Zäune - Teil 3: Stahldrahtgeflecht mit sechseckigen Maschen für bauwirtschaftliche Zwecke

Fils et produits tréfilés en acier pour clôtures - Partie 3: Grillage a mailles hexagonales, en acier, pour applications industrielles

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**Ta slovenski standard je istoveten z: EN 10223-3:1997**

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**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 10223-3:1998****en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 10223-3**

December 1997

ICS 77.140.65

Descriptors: wire nettings, wire, steels, mechanics, specifications, characteristics, dimensions, dimensional tolerances, coatings, galvanizing, tests, packing

English version

## Steel wire and wire products for fences - Part 3: Hexagonal steel wire netting for engineering purposes

Fils et produits tréfilés en acier pour clôtures - Partie 3:  
Grillage à mailles hexagonales, en acier, pour applications  
industrielles

Stahdraht und Drahterzeugnisse für Zäune - Teil 3:  
Stahdrahtgeflecht mit sechseckigen Maschen für  
bauwirtschaftliche Zwecke

This European Standard was approved by CEN on 22 June 1997.

CEN members are bound to comply with the CEN/GENELEC 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 Central Secretariat 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 Central Secretariat 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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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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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 June 1998, and conflicting national standards shall be withdrawn at the latest by June 1998.

The Standard will comprise 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 netting 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

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 European Standard specifies requirements for the dimensions and coating of steel wire netting having meshes of hexagonal shape specified for engineering purposes.

## 2 Normative references

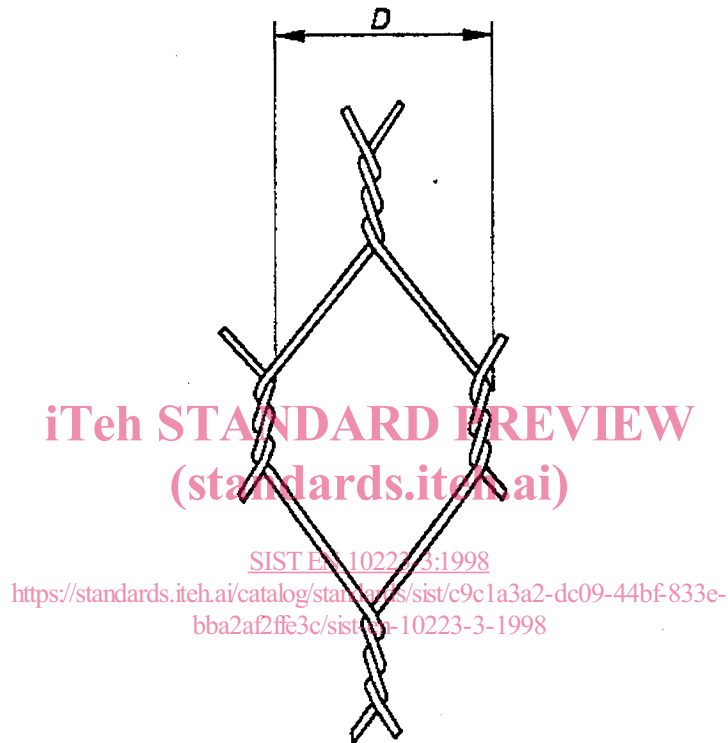
This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this EN only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 10016-1	Wire rod of non-alloy steel for drawing and/or cold rolling - Part 1 : General requirements
EN 10016-2	Wire rod of non-alloy steel for drawing and/or cold rolling - Part 2 : Specific requirements for general purpose rod
EN 10021	General technical delivery conditions for iron and steel products
EN 10204	Metallic products - Types of inspection documents
EN 10218-2	Steel wire and wire products - General. Part 2 : Wire dimensions and tolerances
prEN 10244-1	Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 1 : General principles
prEN 10244-2	Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 2 : Zinc or zinc alloy coatings on steel wire
prEN 10245-1	Steel wire and wire products - Organic coatings on wire - Part 1 : General rules
prEN 10245-2	Steel wire and wire products - Organic coatings of wire - Part 2 : PVC coated wire

### 3 Definitions

For the purpose of this standard the following definitions apply:

**mesh size:** The average distance, measured at right angles between twisted sides over 10 meshes (see figure 1).

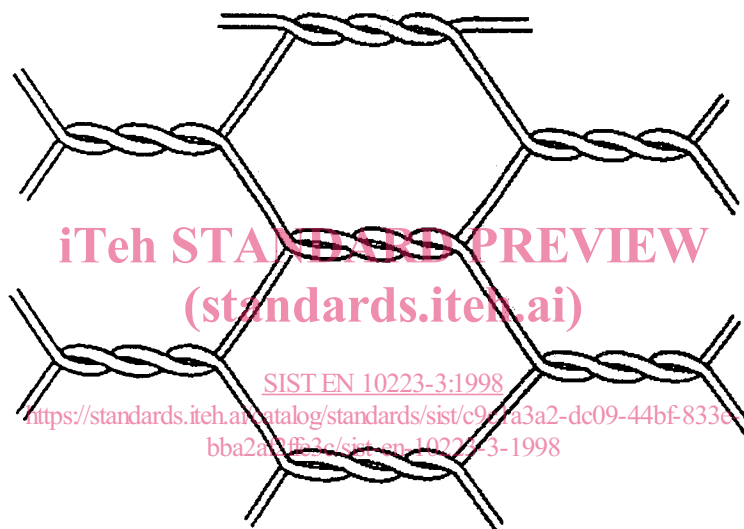


**Figure 1 : Mesh size**

**hexagonal mesh:** The hexagonal-netting consists of hexagonal shaped meshes, formed by twisting adjacent wires two by two, alternatively forming a twist to the right and to the left. The netting shall have a border composed of a single selvedge wire with a greater diameter than that used for the net.

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**twist:** The tight helically winding of two wires around each other measured as each revolution of the two wires over  $180^\circ$ . The wires rotate only in one direction; the minimum number of twists is three (see figure 2).



**Figure 2 : Regular twist**



#### 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) the number of this European Standard;
- b) quantity;
- c) length of rolls;
- d) mesh size;
- e) wire size;
- f) width;
- g) coating type;
- h) whether uniformity of coating is to be measured;
- i) the tests required on the organic coating selected from prEN 10245-2;
- j) inspection documentation requirements;
- k) agreed quality characteristics for testing (see clause 7).

## 5 Manufacture

### 5.1 Base metal

The base metal of the hexagonal netting shall have a tensile strength of 350 N/mm<sup>2</sup> to 500 N/mm<sup>2</sup>, a minimum elongation of 10% on a gauge length of 250 mm and shall be drawn from rods complying with EN 10016-1 and EN 10016-2.

### 5.2 Fabrication

The netting shall be fabricated from zinc or zinc alloy coated wire with or without organic coating. The zinc or zinc alloy wire shall conform to prEN 10244-2 class A.