



Handläggande organ	Fastställd	Utgåva	Sida
SVENSK MATERIAL- & MEKANSTANDARD, SMS	1998-01-16	1	1 (1+11)

SIS FASTSTÄLLER OCH UTGER SVENSK STANDARD SAMT SÄLJER NATIONELLA, EUROPEISKA OCH INTERNATIONELLA STANDARDPUBLIKATIONER ©

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

The European Standard EN 10223-3:1997 has the status of a Swedish Standard. This document contains the official English version of EN 10223-3:1997.

Swedish Standards corresponding to documents referred to in this Standard are listed in "Catalogue of Swedish Standards", issued by SIS. The Catalogue lists, with reference number and year of Swedish approval, International and European Standards approved as Swedish Standards as well as other Swedish Standards.

## Ståltråd och trådprodukter för stängsel – Del 3: Sexkantnät för bygg- och anläggningsindustrin

Europastandarden EN 10223-3:1997 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 10223-3:1997.

Motsvarigheten och aktualiteten i svensk standard till de publikationer som omnämns i denna standard framgår av "Katalog över svensk standard", som ges ut av SIS. I katalogen redovisas internationella och europeiska standarder som fastställts som svenska standarder och övriga gällande svenska standarder.

ICS 77.140.65



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

Stahldraht und Drahterzeugnisse für Zäune –  
Teil 3: Stahldrahtgeflecht 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/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 Central Secretariat or to any CEN member.

The European Standards exist 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.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

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

<b>Contents</b>	<b>Page</b>
Foreword	3
1 Scope	4
2 Normative references	4
3 Definitions	5
4 Information to be supplied by the purchaser	7
5 Manufacture	7
6 Requirements	8
7 Sampling and testing	10
8 Inspection and documentation	10
9 Method of test	10
10 Packaging	11

## **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

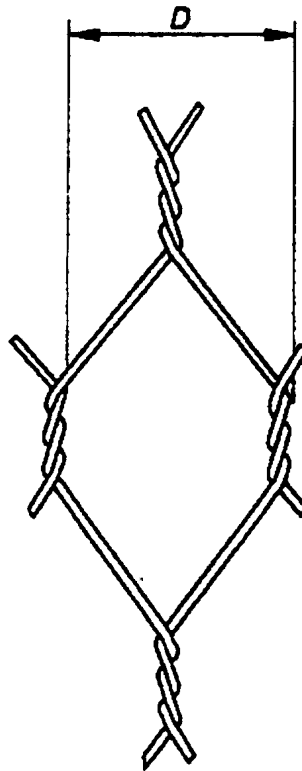
This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications 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:

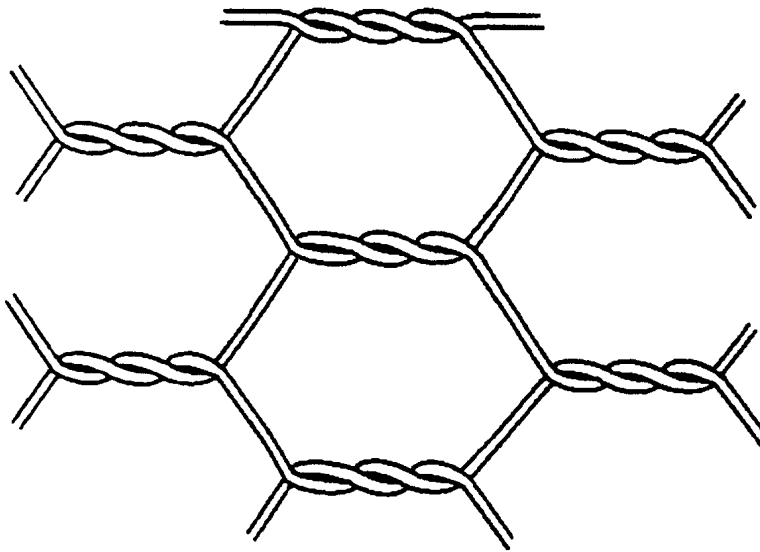
**mesh size:** The average distance, measured at right angles between twisted sides over 10 meshes (see figure 1).



**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.

**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**