
Jeklena žica in žični izdelki za ograje - 2. del: Jeklena pletena mreža s šesterokotnimi zankami za kmetijstvo, izolacije in ograje

Steel wire and wire products for fences - Part 2: Hexagonal steel wire netting for agricultural, insulation, and fencing purposes

Stahldraht und Drahterzeugnisse für Zäune - Teil 2: Stahldrahtgeflecht mit sechseckigen Maschen für landwirtschaftliche Zwecke, Isolierungen und Zäune

Fils et produits tréfilés en acier pour clôtures - Partie 2: Grillage a mailles hexagonales, en acier, utilisé dans l'agriculture, l'isolation et les clôtures

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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 10223-2:1998**en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 10223-2

December 1997

ICS 77.140.65

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

English version

Steel wire and wire products for fences - Part 2: Hexagonal steel wire netting for agricultural, insulation, and fencing purposes

Fils et produits tréfilés en acier pour clôtures - Partie 2:
Grillage à mailles hexagonales, en acier, utilisé dans
l'agriculture, l'isolation et les clôtures

Stahldraht und Drahterzeugnisse für Zäune - Teil 2:
Stahldrahtgeflecht mit sechseckigen Maschen für
landwirtschaftliche Zwecke, Isolierungen und Zäune

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.

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.



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

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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 agricultural, insulation and fencing 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
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 on wire - Part 2: PVC coated wire
prEN 10245-3	Steel wire and wire products - Organic coatings on wire - Part 3: PE coated wire

3 Definitions

For the purpose of this standard the following definitions apply:

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

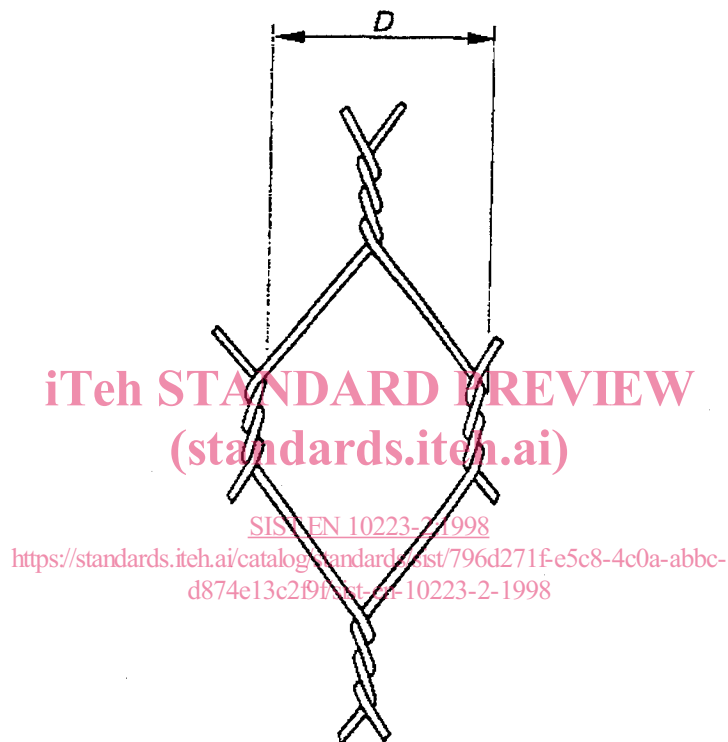


Figure 1 : Mesh size

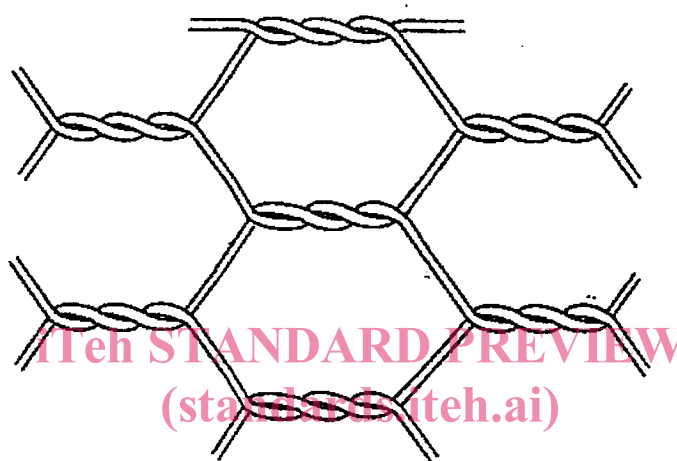
hexagonal mesh: The hexagonal-netting consists of hexagonal shaped meshes, formed by twisting adjacent wires two by two, alternatively forming a twist to the right and to the left. The netting may have a border composed of one, two or more selvedge wires with a greater diameter than that used for the net. For widths above 50 cm or more stretching wires may be woven in the netting at equal distances (see table 1).

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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° .

In the case of regular twist, the wires rotate only in one direction; the minimum number of twists is three (see figure 2 a).

In the case of reverse twist the two wires are first twisted in one direction and then in the other direction. In the short transition zone the two wires are straightened parallel. The minimum number of twists is $1\frac{1}{2}$ in each direction (see figure 2 b).



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Figure 2a : Regular twist

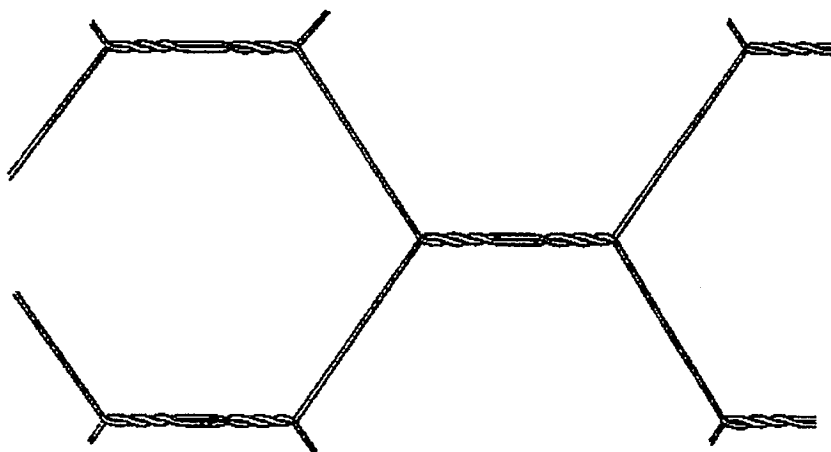


Figure 2b: Reverse twist

Table 1 : Recommended minimum number of stretching wires

Roll width mm	Number of stretching wires
< 500	0
500 < 1000	1
1000 < 1500	2
1500 < 2000	3

NOTE: These values apply to mesh sizes 25 mm and above.

4 Information to be supplied by the purchaser

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

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- a) the number of this European Standard;
- b) quantity; [SIST EN 10223-2:1998](https://standards.iteh.ai/catalog/standards/sist/796d271f-e5c8-4c0a-abbc-d874e13c2f9f/sist-en-10223-2-1998)
- c) length of rolls;
- d) mesh size;
- e) wire size;
- f) width;
- g) type - if no type is specified then either regular twist or reverse twist may be supplied
- h) coating type;
- i) whether uniformity of coating is to be measured;
- j) inspection documentation requirements
- k) agreed quality characteristics for testing (see clause 7)