

SVENSK STANDARD

SS-EN 10245-5:2011



Fastställt/Approved: 2011-11-07
Publicerad/Published: 2011-11-23
Utgåva/Edition: 1
Språk/Language: engelska/English
ICS: 25.220.60; 77.140.65; 77.140.70

Tråd och trådprodukter av stål – Tråd med organisk beläggning – Del 5: Beläggning av polyamid

Steel wire and wire products – Organic coatings on steel wire – Part 5: Polyamide coated wire

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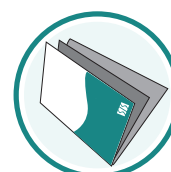
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EUROPEAN STANDARD

EN 10245-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2011

ICS 25.220.60; 77.140.65

English Version

Steel wire and wire products - Organic coatings on steel wire - Part 5: Polyamide coated wire

Fils et produits tréfilés en acier - Revêtements organiques
sur fils d'acier - Partie 5: Fils à revêtement de polyamide

Stahldraht und Drahterzeugnisse - Organische
Beschichtungen auf Stahldraht - Teil 5: Polyamid-
beschichteter Draht

This European Standard was approved by CEN on 17 September 2011.

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Foreword

This document (EN 10245-5:2011) 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of an identical text or by endorsement, at the latest by April 2012, and conflicting national standards shall be withdrawn at the latest by April 2012.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 standard is made up of the following parts:

- *Part 1: General Rules;*
- *Part 2: PVC finished wire;*
- *Part 3: PE coated wire;*
- *Part 4: Polyester coated wire;*
- *Part 5: Polyamide coated wire.*

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 and the United Kingdom.

Introduction

This European Standard for organic coatings for steel wire covers the requirements of a general nature and applies also to coatings for which no specific requirements have been established in the subsequent parts of this standard.

The subsequent parts of this standard deal more specifically with clearly defined coatings or groups of coatings. These coatings may have their own particular methods of application and their individual requirements which are specified in these parts of this standard, in other standards or in manufacturers data sheets.

Because the standard specifies requirements and tests not only for the coating but also for the coating material, it has proved not practical to put all the requirements in one clause and all the tests in another one. Following structure has been chosen in order to limit complexity and to facilitate the use.

In writing this series of standards consideration has been given to the nomenclature and transformation of organic coating materials as applied to steel wire products. These organic coating materials may, on application to wire and by their integration into the finished wire product, change their characteristics and properties.

This standard specifies characteristics and tests not only for the organic coating but also for the coating materials both before and after their application to steel wire and wire products. In addition it specifies the requirements for performance levels and testing methods on organic coating material, which have become an integral and permanent part of the finished wire product. Therefore it has proven not to be practical to put all requirements in one clause and all the tests in another one.

To aid continuity and in order to limit complexity, the following structure has been chosen for this standard:

- **Clause 4** deals with the characteristics and testing methods of organic coating material as supplied by the manufacturer for the purposes of its application to the wire product.

Tests described in this section are intended to be carried out by the organic coating material manufacturer or the applicator **before** the coating operation.

- **Clause 5** relates to the characteristics and testing methods for the “organic coating” when the organic coating material has been applied to and has become an integral part of the finished wire. Consequently tests are intended to be in the main carried out by the coating “applicators”.
- **Clause 6** defines the performance requirements and testing methods on the “organic coating” of the finished wire product, and where this is not possible, tests will be carried out on “coated” panels.

1 Scope

Complementary to EN 10245-1, this European Standard specifies the characteristics and requirements for steel wire and wire products coated with Polyamide (PA6).