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Steel rod, bars and wire for cold heading and cold extrusion - Part 1: General technical delivery conditions

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Steel rod, bars and wire for cold heading and cold extrusion - Part 1: General technical delivery conditions

Barres, fil machine et fils en acier pour transformation
à froid et extrusion à froid - Partie 1: Conditions
techniques générales de livraison

Walzdraht, Stäbe und Draht aus Kaltstach- und
Kaltfließpreßstählen - Teil 1: Allgemeine technische
Lieferbedingungen

This European Standard was approved by CEN on 16 July 2017.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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EN 10263-1:2017 (E)**European foreword**

This document (EN 10263-1:2017) 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of an identical text or by endorsement, at the latest by May 2018, and conflicting national standards shall be withdrawn at the latest by May 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 10263-1:2001.

This European Standard EN 10263 is subdivided as follows:

- *Part 1: General technical delivery conditions*
- *Part 2: Technical delivery conditions for steels not intended for heat treatment after cold working*
- *Part 3: Technical delivery conditions for case hardening steels*
- *Part 4: Technical delivery conditions for steels for quenching and tempering*
- *Part 5: Technical delivery conditions for stainless steels*

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

1.1 This part of EN 10263 specifies the general technical delivery conditions for round rod, round bars and wire for cold heading and cold extrusion made of:

- a) non alloy steels not intended for heat treatment after cold working, as specified in EN 10263-2;
- b) non alloy and alloy steels for case hardening, as specified in EN 10263-3;
- c) non alloy and alloy steels for quenching and tempering, as specified in EN 10263-4;
- d) stainless steels, as specified in EN 10263-5.

1.2 Parts 2, 3 and 4 of this EN 10263 cover products having a diameter up to and including 100 mm.

Part 5 covers products having a diameter up to and including:

- 25 mm for ferritic and austenitic-ferritic steels;
- 50 mm for austenitic steels;
- 100 mm for martensitic steels.

1.3 In special cases supplementary requirements or deviations with respect to this European Standard may be agreed between the purchaser and the supplier at the time of enquiry and order (See Annex A).

1.4 The general technical delivery conditions in EN 10021 also apply to products supplied in accordance with this European Standard

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 10020, *Definition and classification of grades of steel*

EN 10021, *General technical delivery conditions for steel products*

EN 10027-1, *Designation systems for steels - Part 1: Steel names*

EN 10027-2, *Designation systems for steels - Part 2: Numerical system*

EN ISO 4885, *Ferrous materials - Heat treatments - Vocabulary (ISO 4885)*

EN 10060, *Hot rolled round steel bars for general purposes - Dimensions and tolerances on shape and dimensions*

EN 10079, *Definition of steel products*

EN 10108, *Round steel rod for cold heading and cold extrusion - Dimensions and tolerances*

EN 10204, *Metallic products - Types of inspection documents*

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EN 10218-2, *Steel wire and wire products - General - Part 2: Wire dimensions and tolerances*

EN 10221:1995, *Surface quality classes for hot-rolled bars and rods - Technical delivery conditions*

EN 10247, *Micrographic examination of the non-metallic inclusion content of steels using standard pictures*

EN 10263-2:2017, *Steel rod, bars and wire for cold heading and cold extrusion - Part 2: Technical delivery conditions for steels not intended for heat treatment after cold working*

EN 10263-3:2017, *Steel rod, bars and wire for cold heading and cold extrusion - Part 3: Technical delivery conditions for case hardening steels*

EN 10263-4:2017, *Steel rod, bars and wire for cold heading and cold extrusion - Part 4: Technical delivery conditions for steels for quenching and tempering*

EN 10263-5:2017, *Steel rod, bars and wire for cold heading and cold extrusion - Part 5: Technical delivery conditions for stainless steels*

EN 10277-1:2008, *Bright steel products - Technical delivery conditions - Part 1: General*

EN 10278, *Dimensions and tolerances of bright steel products*

EN 10308, *Non destructive testing - Ultrasonic testing of steel bars*

EN ISO 377, *Steel and steel products - Location and preparation of samples and test pieces for mechanical testing (ISO 377:2017)*

EN ISO 642, *Steel - Hardenability test by end quenching (Jominy test) (ISO 642:1999)*

EN ISO 643, *Steels - Micrographic determination of the apparent grain size (ISO 643:2012)*

EN ISO 3651-2, *Determination of resistance to intergranular corrosion of stainless steels - Part 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels - Corrosion test in media containing sulfuric acid (ISO 3651-2:1998)*

EN ISO 3887, *Steels - Determination of depth of decarburization (ISO 3887:2003)*

EN ISO 6508-1, *Metallic materials - Rockwell hardness test - Part 1: Test method (ISO 6508-1:2016)*

EN ISO 6892-1, *Metallic materials - Tensile testing - Part 1: Method of test at room temperature (ISO 6892-1:2016)*

EN ISO 9934-1, *Non-destructive testing - Magnetic particle testing - Part 1: General principles (ISO 9934-1:2016)*

EN ISO 14284, *Steel and iron - Sampling and preparation of samples for the determination of chemical composition (ISO 14284:1996)*

ISO 4967, *Steel — Determination of non-metallic inclusions — Microscopic method using standard diagrams*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN