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STN	**Valcovaný drôt z nelegovaných ocelí na ťahanie Časť 1: Všeobecné požiadavky (ISO 16120-1: 2017)**	**STN EN ISO 16120-1** 42 1075

Non-alloy steel wire rod for conversion to wire - Part 1: General requirements (ISO 16120-1:2017)

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/17

Obsahuje: EN ISO 16120-1:2017, ISO 16120-1:2017

Oznámením tejto normy sa ruší
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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 16120-1

June 2017

ICS 77.140.60

Supersedes EN ISO 16120-1:2011

English Version

Non-alloy steel wire rod for conversion to wire - Part 1: General requirements (ISO 16120-1:2017)

Fil-machine en acier non allié destiné à la fabrication de fils - Partie 1: Exigences générales (ISO 16120-1:2017)

Walzdraht aus unlegiertem Stahl zum Ziehen - Teil 1: Allgemeine Anforderungen (ISO 16120-1:2017)

This European Standard was approved by CEN on 20 April 2017.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Ref. No. EN ISO 16120-1:2017 E

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European foreword

This document (EN ISO 16120-1:2017) has been prepared by Technical Committee ISO/TC 17 “Steel” in collaboration with 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of an identical text or by endorsement, at the latest by December 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

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 document supersedes EN ISO 16120-1:2011.

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Endorsement notice

The text of ISO 16120-1:2017 has been approved by CEN as EN ISO 16120-1:2017 without any modification.

INTERNATIONAL STANDARD

ISO 16120-1

Third edition
2017-05

Non-alloy steel wire rod for conversion to wire —

Part 1: General requirements

Fil-machine en acier non allié destiné à la fabrication de fils —

Partie 1: Exigences générales

Reference number
ISO 16120-1:2017(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 17, *Steel wire rod and wire products*.

This third edition cancels and replaces the second edition (ISO 16120-1:2011), which has been technically revised.

The main changes compared to the previous edition are:

— core segregation, surface discontinuity and mechanical damage have been added to the terms and definitions;

— determination of cementite network in high-carbon steel wire rod (9.5.8 and Annex E) added.

A list of all parts in the ISO 16120 series can be found on the ISO website.

INTERNATIONAL STANDARD **ISO 16120-1:2017(E)**

Non-alloy steel wire rod for conversion to wire —

Part 1: General requirements

1 Scope

The ISO 16120 series is applicable to wire rod of non-alloy steel intended for wire drawing and/or cold rolling. The cross-section can be circular, oval, square, rectangular, hexagonal, octagonal, half-round or another shape, generally with at least 5 mm nominal dimension, and with a smooth surface.

This document specifies general requirements for non-alloy steel wire rod for conversion to wire. It is not applicable to products for which standards exist or are in development, for example:

— steel wire rod intended for heat treatment;

— free-cutting steel wire rod;

— steel wire rod for cold heading and cold extrusion;

— steel wire rod intended for the production of electrodes and products for welding;

— steel wire rod for welded fabric for reinforcement for concrete;

— steel wire rod for ball and roller bearings (see ISO 683-17);

— steel wire rod for wire for high fatigue strength mechanical springs, such as valve springs.

In addition to the requirements of this document, the general technical delivery requirements specified in ISO 404 apply.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 377, *Steel and steel products — Location and preparation of samples and test pieces for mechanical testing*

ISO 404:2013, *Steel and steel products — General technical delivery requirements*

ISO 3887, *Steels — Determination of depth of decarburization*

ISO 4885, *Ferrous products — Heat treatments — Vocabulary*

ISO 4948-1, *Steels — Classification — Part 1: Classification of steels into unalloyed and alloy steels based on chemical composition*

ISO 4948-2, *Steels — Classification — Part 2: Classification of unalloyed and alloy steels according to main quality classes and main property or application characteristics*

ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*

ISO 6929, *Steel products — Vocabulary*

ISO/TR 9769, *Steel and iron — Review of available methods of analysis*

ISO 10474, *Steel and steel products — Inspection documents*

ISO 14284, *Steel and iron — Sampling and preparation of samples for the determination of chemical composition*

ISO 16120-2:2017, *Non-alloy steel wire rod for conversion to wire — Part 2: Specific requirements for general-purpose wire rod*

ISO 16120-3:2011, *Non-alloy steel wire rod for conversion to wire — Part 3: Specific requirements for rimmed and rimmed substitute, low-carbon steel wire rod*

ISO 16120-4:2017, *Non-alloy steel wire rod for conversion to wire — Part 4: Specific requirements for wire rod for special applications*

ISO 16124, *Steel wire rod — Dimensions and tolerances*