

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 10263-3:2017 sisaldab Euroopa standardi EN 10263-3:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 10263-3:2017 consists of the English text of the European standard EN 10263-3:2017.
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English Version

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

Barres, fil machine et fil en acier pour transformation à
froid à froid et extrusion à froid - Partie 3: Conditions
techniques de livraison des aciers de cémentation

Walzdraht, Stäbe und Draht aus Kaltstauch- und
Kaltfließpressstählen - Teil 3: Technische
Lieferbedingungen für Einsatzstähle

This European Standard was approved by CEN on 26 July 2017.

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European foreword

This document (EN 10263-3:2017) 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of an identical text or by endorsement, at the latest by May 2018, and conflicting national standards shall be withdrawn at the latest by May 2018.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 10263-3:2001.

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*

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1 Scope

1.1 This part of EN 10263 is applicable to round rod, round bars and wire with a diameter up to and including 100 mm, of non-alloy and alloy steel, intended for cold heading and cold extrusion and case hardening.

1.2 EN 10263-1:2017 is indispensable for this part of EN 10263.

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 10263-1:2017, *Steel rod, bars and wire for cold heading and cold extrusion — Part 1: General technical delivery conditions*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 10263-1:2017 and the following apply.

3.1

case-hardening steels

structural steels with a relatively low carbon content, which are carburized or carbonitrided on their surface and subsequently hardened

Note 1 to entry: These steels, after hardening, have a high degree of hardness in the surface zone and good resistance to wear, while the core material is characterized principally by extreme toughness.

Note 2 to entry: Further possibilities for heat treatment of case-hardening steels are, for example, nitrocarburizing and nitriding.

4 Classification and Designation

4.1 Classification

All steels covered by this part of EN 10263 are special steels according to EN 10020.

Steel grades from C10E2C to C20E2C as quoted in Table 3 are non-alloy steels and all others are alloy steels according to EN 10020.

4.2 Designation

See EN 10263-1:2017.