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

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 10263-
3:2001 sisaldab Euroopa standardi EN
10263-3:2001 ingliskeelset teksti.

Käesolev dokument on jõustatud 19.12.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 10263-3:2001 consists of the English text of the European standard EN 10263-3:2001.

This document is endorsed on 19.12.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This part 3 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 subsequent case hardening treatment.

Scope:

This part 3 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 subsequent case hardening treatment.

ICS 77.140.60, 77.140.65

Võtmesõnad: acceptance testing, case hardening, extrusions, measurement, metal bars, ph, production, properties, specification (approval), specifications, steels, testing, tolerances, tolerances (measurement), unalloyed, unalloyed steels, wire rods, wires

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EUROPEAN STANDARD

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ICS 77.140.60; 77.140.65

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 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 19 April 2001.

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 Management Centre 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 Management Centre 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 15 "Wire-rod - Qualities, dimensions, tolerances and specific tests", the secretariat of which is held by UNI.

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 2001, and conflicting national standards shall be withdrawn at the latest by December 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 organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, the L. Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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 subsequent case hardening treatment.
- 1.2 This Part of EN 10263 is complemented by EN 10263-1.

2 Normative References

This European Standard incorporates by date 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 date references, subsequent amendments to or revisions of, any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 10020 Definitions and classification of grades of steel

EN 10263-1 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 standard the definitions in EN 10263-1:2001 and the following apply.

3.1

Case hardening steel

Steel with a relatively low carbon content, which is intended for carburizing or carbonitriding and subsequent hardening. Such steels, after treatment, are characterised by a high hardness surface layer and a tough core.

NOTE Other processes for case hardening include nitriding and nitrocarburizing

4 Classification and Designation

4.1 Classification

All steels covered by this Part of EN 10263-1:2001 are special steels according to EN 10020.

Steel grades from C10E2C to C20E2C as quoted in table 2 are non-alloy steels and all others are alloy steels according to EN 10020.

4.2 Designation

See EN 10263-1:2001.

5 Production process

5.1 Steelmaking process

See EN 10263-1:2001.