



SWEDISH
STANDARDS
INSTITUTE

SVENSK STANDARD SS-EN 10263-2

Fastställt
2001-07-27

Utgåva
1

Sida
1 (1+7)

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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

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Swedish Standards corresponding to documents referred to in this Standard are listed in "Catalogue of Swedish Standards", issued by SIS. The Catalogue lists, with reference number and year of Swedish approval, International and European Standards approved as Swedish Standards as well as other Swedish Standards.

Valstråd, stång och tråd av stål för kallstukning – Del 2: Tekniska leveransbestämmelser för stål som inte är avsedda för värmebehandling efter kallbearbetning

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ICS 77.140.60; 77.140.65

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Tryckt i september 2001

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 10263-2

June 2001

ICS 77.140.60; 77.140.65

English version

**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**

Barres, fil machine et fils en acier pour transformation à froid et extrusion à froid - Partie 2: Conditions techniques de livraison des aciers n'étant pas destinés à un traitement thermique après travail à froid

Walzdraht, Stäbe und Draht aus Kaltstauch- und Kaltfließpreßstählen - Teil 2: Technische Lieferbedingungen für nicht für eine Wärmebehandlung nach der Kaltverarbeitung vorgesehene Stähle

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
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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, 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 and 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 without subsequent heat treatment on the final components.

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 apply.

4 Classification and designation

4.1 Classification

All steel grades covered by this Part of EN 10263 are non-alloy or alloy (8MnSi7) quality steels according to EN 10020.

4.2 Designation

4.2.1 Steel names

See EN 10263-1:2001.

4.2.2 Steel numbers

See EN 10263-1:2001.

5 Production process

5.1 General

See EN 10263-1:2001.

5.2 Deoxidation

All steel grades quoted in table 2, except 8MnSi7, are aluminium-killed steels. By agreement aluminium may be replaced by another suitable element having a similar effect.

6 Requirements

6.1 Delivery condition

The delivery conditions in which the products covered by this Part of this European Standard are normally supplied, the product forms and the applicable requirements are given in table 1.

6.2 Chemical composition

6.2.1 Heat analysis

The chemical composition shall be in accordance with the values specified in table 2 for the heat analysis.

6.2.2 Product analysis

In cases where a product analysis is requested, the admissible deviations from the values specified for the heat analysis are indicated in table 3.

6.3 Mechanical properties

The mechanical properties of the products, to be determined by the tensile test, shall be in accordance with the prescriptions given in table 4.

6.4 Surface quality

See EN 10263-1:2001.

6.5 Supplementary or special requirements

Other requirements that can be agreed at the time of enquiry and order are described in Annex B of EN 10263-1:2001.