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National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 10263-3:2001

ICS 77.140.60
77.140.65

STEEL ROD, BARS AND WIRE FOR COLD HEADING AND COLD EXTRUSION - PART 3: TECHNICAL DELIVERY CONDITIONS FOR CASE HARDENING STEELS

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EUROPEAN STANDARD
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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 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

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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of an identical text or by endorsement, at the latest by December 2001, and conflicting national standards shall be withdrawn at the latest by December 2001.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.

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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 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.

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