

Ferritic-pearlitic steels for precipitation hardening from hot-working temperatures

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British Standard

ICS 77.140.10; 77.140.20

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 11 and a back cover.

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English version

Ferritic-pearlitic steels for precipitation hardening from hot-working temperatures

Aciers de type ferrite-perlite aptes au durcissement
par précipitation à partir des températures
de formage à chaud

Von Warmformgebungstemperatur
ausscheidungshärtende ferritisch-perlitische Stähle

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by ECISS/TC 23, Steels for heat treatment, alloy steels and free-cutting steels-qualities, the Secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by July 1998, and conflicting national standards shall be withdrawn at the latest by July 1998.

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 European Standard gives the technical delivery requirements for semi-finished products and bars of the non-alloy special steels listed in Tables 3 and 5. The products are supplied in the conditions given in Table 1, line 2 to 4, and in one of the surface conditions given in Table 2.

1.2 In special cases, variations in these technical delivery requirements or additions to them may form the subject of an agreement at the time of enquiry and order (see annex A).

1.3 In addition to the specifications of this European Standard, the general technical delivery requirements of EN 10021 are applicable, unless otherwise specified.

2 Normative references

This European Standard incorporates by dated 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 dated 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.

EN 10002-1, *Metallic materials — Tensile testing — Part 1: Method of test (at ambient temperature)*.

EN 10003-1, *Metallic materials — Brinell hardness test — Part 1: Test method*.

EN 10020, *Definition and classification of grades of steel*.

EN 10021, *General technical delivery requirements for steel and iron products*.

EN 10027-1, *Designation systems for steel — Part 1: Steel names, principal symbols*.

EN 10027-2, *Designation systems for steel — Part 2: Numerical system*.

EN 10079, *Definition of steel products*.

EN 10204, *Metallic products — Types of inspection documents* (includes amendment A1:1995).

EN 10221, *Surface quality classes for hot-rolled bars and rods — Technical delivery conditions*.

CR 10260, ECIS IC 10 — *Designation systems for steel — Additional symbols for steel names*.

CR 10261, ECIS IC 11 — *Iron and steel — Review of available methods of chemical analysis*.

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

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

3 Definitions

For the purposes of this European Standard, the definitions given in EN 10020, EN 10021, EN 10079, prEN ISO 377 and ISO 14284 apply.

4 Classification and designation

4.1 Classification

All steels covered by this European Standard are classified as non-alloy special steels according to EN 10020.

4.2 Designation

4.2.1 Steel names

For the steel grades covered by this European Standard, the steel names as given in Tables 3 and 5 are allocated in accordance with EN 10027-1 and CR 10260.

4.2.2 Steel numbers

For the steel grades covered by this European Standard, the steel numbers as given in Tables 3 and 5 are allocated in accordance with EN 10027-2.

5 Information to be supplied by the purchaser

5.1 Mandatory information

The following information shall be supplied by the purchaser at the time of enquiry and order.

- The quantity to be delivered.
- The designation of the product form (e.g. round or square).
- The number of the dimensional standard.
- The dimensions and tolerances on dimensions and shape and, if applicable, letters denoting relevant special tolerances.
- The number of this European Standard (EN 10267).
- Steel name or steel number (see 4.2).
- If appropriate, the symbol for the treatment condition at delivery (see 6.3.1 and Table 1).
- If appropriate, the symbol for the surface condition at delivery (see 6.3.2 and Table 2).
- If required, the type of inspection document in accordance with EN 10204 (see 8.1).

EXAMPLE:

20 rounds Euronorm 60 – 40 × 8000
EN 10267 – 19MnVS6+P
EN 10204 – 2.2

or

20 rounds Euronorm 60 – 40 × 8000
EN 10267 – 1.1301+P
EN 10204 – 2.2