

Nitriding steels - Technical delivery conditions

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 10085:2001 sisaldab Euroopa standardi EN 10085:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.11.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 10085:2001 consists of the English text of the European standard EN 10085:2001.</p> <p>This document is endorsed on 16.11.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard specifies the technical delivery requirements for semi-finished products e.g. blooms, billets, slabs; bars; rod: wide flats; hot-rolled plates; hammer or drop forgings manufactured from the nitriding steels and supplied in one of the heat-treatment conditions given for the different types of products.</p>	<p>Scope:</p> <p>This European Standard specifies the technical delivery requirements for semi-finished products e.g. blooms, billets, slabs; bars; rod: wide flats; hot-rolled plates; hammer or drop forgings manufactured from the nitriding steels and supplied in one of the heat-treatment conditions given for the different types of products.</p>
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Võtmesõnad: alloy steels, delivery conditions, designations, forgings, heat-treatable steels, hot rolled, nitriding steels, semi-finished products, sheet materials, sheets, specifications, steel bars, steels, strips, tape, wire rods, wrought products

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English version

Nitriding steels - Technical delivery conditions

Aciers pour nitruration - Conditions techniques de livraison

Nitrierstähle - Technische Lieferbedingungen

This European Standard was approved by CEN on 19 January 2001.

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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.

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Foreword

This European Standard has been prepared by Technical Committee ECISS/TC 23 “Steels for heat treatment, alloy steels and free-cutting steels - Qualities and dimensions”, 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 September 2001, and conflicting national standards shall be withdrawn at the latest by September 2001.

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 European Standard specifies the technical delivery requirements for

- semi-finished products, e. g. blooms, billets, slabs (see NOTE 3);
- bars (see NOTE 3);
- rod;
- wide flats;
- hot- or cold-rolled strip and sheet/plate;
- forgings (see NOTE 3)

manufactured from the nitriding steels listed in Table 3 and supplied in one of the heat-treatment conditions given for the different types of products in Table 1, line 2 to 4 and in one of the surface conditions given in Table 2.

The steels are, in general, intended for the fabrication of quenched and tempered and generally machined and subsequently nitrided parts.

NOTE 1 Some grades from EN 10083-1 are also used for nitriding treatment.

NOTE 2 Related European Standards are given in Bibliography.

NOTE 3 Hammer-forged semi-finished products (blooms, billets, slabs etc.) and hammer-forged bars are in the following covered under semi-finished products or bars and not under the term “forgings”.

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 B).

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

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 (including amendments).

EN 10002-1, *Metallic materials - Tensile testing - Part 1: Test method (at ambient temperature)*
“including Addendum AC1:1990”

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 10045-1, *Metallic materials - Charpy impact test - Part 1: Test method*
- EN 10052, *Vocabulary of heat treatment terms for ferrous products*
- EN 10079, *Definition of steel products*
- EN 10163-2, *Delivery requirements for surface condition of hot-rolled steel plates, wide flats and sections - Part 2: Plates and wide flats*
- 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, *Designation systems for steels - Additional symbols*
- CR 10261, *ECISS IC 11 - Iron and steel - Review of available methods of chemical analysis*
- EN ISO 377, *Steel and steel products - Location and preparation of samples and test pieces for mechanical testing*
- EN ISO 6506-1, *Metallic materials - Brinell hardness test - Part 1: Test method (ISO 6506-1:1999)*
- EURONORM 103¹⁾, *Microscopic determination of the ferritic or austenitic grain size of steels*
- EURONORM 104¹⁾, *Determination of the depth of decarburization of non-alloy and low alloy structural steels*
- ISO 14284, *Steel and iron - Sampling and preparation of samples for the determination of chemical composition*

3 Terms and definitions

For the purpose of this European Standard, the following terms and definitions apply in addition to the terms and definitions given in EN 10020, EN 10052, EN 10079, EN ISO 377 and ISO 14284.

¹⁾ It may be agreed at the time of ordering, until these EURONORMS have been adopted as European Standards, that these EURONORMS or the corresponding national standards should be applied.