

IRISH STANDARD

I.S. EN 10085:2001

ICS 77.140.10

NITRIDING STEELS - TECHNICAL DELIVERY CONDITIONS

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EUROPEAN STANDARD NORME EUROPÉENNE

EN 10085

EUROPÄISCHE NORM

March 2001

ICS 77.140.10

English version

Nitriding steels - Technical delivery conditions

Aciers pour nitruration - Conditions techniques de livraison

Nitrierstahle - Technische Lieferbedingungen

This European Standard was approved by CEN on 19 January 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 EUROPEEN DE NORMALISATION EUROPAISCHES KOMITEE FUR NORMUNG

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Page 2 EN 10085:2001

Contents

Fore	word	3
1	Scope	4
2	Normative references	4
3	Terms and definitions	5
4 4.1 4.2	Classification and designation Classification Designation	6 6 6
5 5.1 5.2	Information to be supplied by the purchaser Mandatory information Options	6 6 7
6 6.1 6.2 6.3	Manufacturing process General Heat-treatment and surface condition at delivery Cast separation	8 8 8
7 7.1 7.2 7.3 7.4 7.5 7.6	Requirements Chemical composition, hardness and mechanical properties Shearability Structure Internal soundness Surface quality and decarburization Dimensions, tolerances on dimensions and shape	8 8 8 8 9 9
8 8.1 8.2	Inspection and testing Types and contents of inspection documents Specific inspection and testing	9 9 10
9	Marking	11
Anno	ex A (normative): Ruling sections for the mechanical properties	22
Anne	ex B (normative): Supplementary or special requirements	24
Anne	ex C (informative): Heat treatment	25
	ex D (informative): Dimensional standards applicable to products complying this European Standard	26
Bibli	iography	27

Foreword

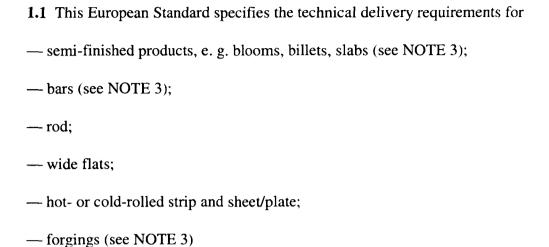
This European Standard has been prepared by Technical Committee ECISS/TC 23 "Steels for heat treatment, alloy steels and free-cutting steels - Qualities and dimensions", the secretariat of which is held by DIN.

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.

Page 4 EN 10085:2001

1 Scope



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



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