

ICS 77.140.20

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This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on: August 5, 2005

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 10088-1

June 2005

ICS 77.140.20

Supersedes EN 10088-1:1995

English version

Stainless steels - Part 1: List of stainless steels

Aciers inoxydables - Partie 1: Liste des aciers inoxydables

Nichtrostende Stähle - Teil 1: Verzeichnis der nichtrostenden Stähle

This European Standard was approved by CEN on 14 April 2005.

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Ref. No. EN 10088-1:2005: E

EN 10088-1:2005 (E)

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Foreword

This European Standard (EN 10088-1:2005) 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of an identical text or by endorsement, at the latest by December 2005, and conflicting national standards shall be withdrawn at the latest by December 2005.

This document supersedes EN 10088-1:1995.

EN 10088, under the general title "Stainless steels", consists of the following parts:

- Part 1: List of stainless steels (including a table of European Standards, in which these stainless steels are further specified, see Annex D),
- Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes,
- Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes.

The European Organisation for Standardisation (CEN) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents applied to five steels grades

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1 Scope

This European Standard lists the chemical composition of stainless steels, which are subdivided in accordance with their main properties into corrosion resisting steels, heat resisting steels and creep resisting steels and specified in the European Standards given in Table 1.

Table 1 — Overview of material standards for stainless steels

Stainless steels				
Corrosion resisting steels	Heat resisting steels	Creep resisting steels		
EN 10028-7		EN 10028-7		
EN 10088-2				
EN 10088-3				
	EN 10095			
EN 10151				
EN 10216-5		EN 10216-5		
EN 10217-7				
EN 10222-5		EN 10222-5		
EN 10250-4				
EN 10263-5				
EN 10264-4	EN 10264-4			
EN 10269		EN 10269		
EN 10270-3				
EN 10272				
EN 10296-2				
EN 10297-2				
		EN 10302		
EN 10312				

Reference data on some physical properties are given in Tables A.1 to A.8.

- NOTE 1 A matrix that shows which steels are included in which standard is given in Annex D.
- NOTE 2 Valve steels are specified in EN 10090.
- NOTE 3 Steel castings are specified in various European Standards (see Bibliography).
- NOTE 4 Tool steels are specified in EN ISO 4957.
- NOTE 5 Welding consumables are specified in various European Standards (see Bibliography).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 10079:1992, Definition of steel products

EN 10020:2000, Definition and classification of grades of steel



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