



**NSAI**  
Standards

Irish Standard  
I.S. EN 10088-5:2009

# Stainless steels - Part 5: Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes

## I.S. EN 10088-5:2009

*Incorporating amendments/corrigenda issued since publication:*

<i>This document replaces:</i>	<i>This document is based on:</i> EN 10088-5:2009	<i>Published:</i> 25 March, 2009
This document was published under the authority of the NSAI and comes into effect on: 26 May, 2009		ICS number: 77.140.20 77.140.50 77.140.65
<b>NSAI</b> 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	<b>Sales:</b> T +353 1 857 6730 F +353 1 857 6729 W standards.ie  <b>Price Code:</b> P
Údarás um Chaighdeáin Náisiúnta na hÉireann		

**I.S. EN 10088-5:2009**

**EUROPEAN STANDARD**

**EN 10088-5**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

March 2009

ICS 77.140.20; 77.140.50; 77.140.65

English Version

**Stainless steels - Part 5: Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes**

Aciers inoxydables - Partie 5 : Conditions techniques des livraisons pour les barres, fils tréfilés, profils et produits transformés à froid en acier résistant à la corrosion pour usage de construction

Nichtrostende Stähle - Teil 5: Technische Lieferbedingungen für Stäbe, Walzdraht, gezogenen Draht, Profile und Blankstahlerzeugnisse aus korrosionsbeständigen Stählen für das Bauwesen

This European Standard was approved by CEN on 21 February 2009.

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 CEN 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Contents

Page

Foreword.....	3
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	6
4 Designation and ordering .....	6
4.1 Designation of steel grades .....	6
4.2 Order designation .....	6
5 Classification of grades .....	7
6 Requirements .....	8
6.1 Steelmaking process .....	8
6.2 Delivery condition .....	8
6.3 Chemical composition .....	8
6.4 Chemical corrosion properties .....	8
6.5 Mechanical properties .....	8
6.6 Surface quality .....	9
6.7 Internal soundness .....	9
6.8 Formability at room temperature .....	9
6.9 Dimensions and tolerances on dimensions and shape .....	9
6.10 Calculation of mass and tolerances on mass .....	10
7 Inspection and testing .....	10
7.1 General .....	10
7.2 Agreement on tests and inspection documents .....	10
7.3 Specific inspection and testing .....	11
7.4 Test methods .....	11
7.5 Retests .....	12
8 Evaluation of conformity .....	12
8.1 General .....	12
8.2 Initial type testing .....	12
8.3 Factory production control (FPC) .....	13
9 Marking .....	15
10 Dangerous substances .....	15
Annex A (informative) Guidelines for further treatment (including heat treatment) in fabrication .....	42
Annex B (normative) Applicable dimensional standards .....	46
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 89/106/EEC, EU Construction Products Directive .....	47
Bibliography .....	53

## Foreword

This document (EN 10088-5:2009) 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 2009, and conflicting national standards shall be withdrawn at the latest by December 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. CEN [and/or] CENELEC shall not be held responsible for identifying any or all such patent rights.

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;

Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes;

Part 5: Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction 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 concerning two steel grades.

CEN takes no position concerning the evidence, validity and scope of these patent rights.

The holder of these patent rights has assured CEN that they are willing to negotiate licenses, under reasonable and non-discriminatory terms and conditions, with applicants throughout the world. In this respect, the statements of the holders of these patent rights are registered with CEN. Information may be obtained from:

Sandvik AB  
SE-811 81 SANDVIKEN  
Sweden  
for grade 1.4477

Outokumpu Stainless AB  
SE-77480 AVESTA  
Sweden  
for grade 1.4162

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EC Directive(s).

For relationship with EC Directive(s), see informative Annex ZA, which is an integral part of this document.

**I.S. EN 10088-5:2009**

**EN 10088-5:2009 (E)**

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-