

Stainless steels - Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 10088-3:2005 sisaldab Euroopa standardi EN 10088-3:2005 ingliskeelset teksti. Käesolev dokument on jõustatud 15.07.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 10088-3:2005 consists of the English text of the European standard EN 10088-3:2005. This document is endorsed on 15.07.2005 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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Käsitlusala: This part of EN 10088 specifies the technical delivery conditions for semi-finished productions, hot or cold formed bars, rods, wire, sections and bright products of standard grades and special grades of corrosion resisting stainless steels for general and construction purposes.	Scope: This part of EN 10088 specifies the technical delivery conditions for semi-finished productions, hot or cold formed bars, rods, wire, sections and bright products of standard grades and special grades of corrosion resisting stainless steels for general and construction purposes.
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ICS 77.140.20, 77.140.50, 77.140.65

Võtmesõnad: acceptance testing, classifications, corrosion-resistant s, grades, metal bars, quality, specifications, stainless steels, steel grades, steel products, steel sections, steel strips, steel wires, steels, structural steels, testing, wire rods, wires

English version

Stainless steels - Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes

Aciers inoxydables - Partie 3 : Conditions techniques de livraison pour les demi-produits, barres, fils machines, fils tréfilés, profils et produits transformés à froid en acier résistant à la corrosion pour usage général

Nichtrostende Stähle - Teil 3: Technische Lieferbedingungen für Halbzeug, Stäbe, Walzdraht, gezogenen Draht, Profile und Blankstahlerzeugnisse aus korrosionsbeständigen Stählen für allgemeine Verwendung

This European Standard was approved by CEN on 4 May 2005.

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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 Central Secretariat has the same status as the official versions.

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Foreword

This document (EN 10088-3:2005) 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 10088-3:1995.

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 concerning four 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:

Grades 1.4362, 1.4410 and 1.4477

Sandvik AB
SE-811 81 SANDVIKEN
Sweden

Grade 1.4652

Outokumpu Stainless AB
SE-77480 AVESTA
Sweden

Attention is drawn to the possibility that some of the elements within this document may be the subject of patent rights other than those indicated above. CEN shall not be responsible for identifying any or all such patent rights.

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

1 Scope

1.1 This part of EN 10088 specifies the technical delivery conditions for semi-finished products, hot or cold formed bars, rods, wire, sections and bright products of standard grades and special grades of corrosion resisting stainless steels for general purposes.

NOTE General purposes include the use of stainless steels in contact with foodstuffs.

1.2 The general technical delivery conditions specified in EN 10021 apply in addition to the specifications of this European Standard, unless otherwise specified in this European Standard.

1.3 This European Standard does not apply to components manufactured by further processing of the product forms listed in 1.1 with quality characteristics altered as a result of such further processing.

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

EN 10002-5, *Metallic materials - Tensile testing - Part 5: Method of test at elevated temperature.*

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

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

EN 10027-2, *Designation systems for steels - 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 10088-1, *Stainless steels - Part 1: List of stainless steels.*

EN 10163-3, *Delivery requirements for surface condition of hot rolled steel plates, wide flats and sections - Part 3: Sections.*

EN 10168:2004, *Steel products - Inspection documents - List of information and description.*

EN 10204:2004, *Metallic products - Types of inspection documents.*

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

EN 10306, *Iron and steel - Ultrasonic testing of H beams with parallel flanges and IPE beams.*

EN 10308, *Non destructive testing - Ultrasonic testing of steel bars.*

EN ISO 377, *Steel and steel products - Location and preparation of samples and test pieces for mechanical testing (ISO 377:1997).*

EN ISO 3651-2, *Determination of resistance to intergranular corrosion of stainless steels - Part 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels - Corrosion test in media containing sulphuric acid* (ISO 3651-2:1998).

EN ISO 6506-1, *Metallic materials - Brinell hardness test - Part 1: Test method* (ISO 6506-1:1999).

EN ISO 14284, *Steel and iron - Sampling and preparation of samples for the determination of chemical composition* (ISO 14284:1996).

ISO 286-1, *ISO system of limits and fits – Part 1: Bases of tolerances, deviations and fits*.

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

3.1

stainless steels

definition in EN 10088-1 applies

3.2

corrosion resisting steels

steels with at least 10,5 % Cr and max. 1,20 % C if their resistance to corrosion is of primary importance

3.3

product forms

definitions in EN 10079 apply

3.4

types of heat treatment

definitions in EN 10052 apply

3.5

general purposes

purposes other than the special purposes mentioned in the Bibliography

3.6

standard grades

grades with a relatively good availability and a wider range of application

3.7

special grades

grades for special use and/or with limited availability

4 Designation and ordering

4.1 Designation of steel grades

The steel names and steel numbers (see Tables 2 to 5) were formed in accordance with EN 10027-1 and EN 10027-2 respectively.

4.2 Designation to be used on ordering

The complete designation for ordering a product according to this document shall contain the following information: