

STN	Nehrdzavejúce ocele Časť 3: Technické dodacie podmienky na polotovary, tyče, prúty, drôty, profily a lesklé výrobky z nehrdzavejúcich ocelí na všeobecné účely	STN EN 10088-3 42 0927
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Stainless steels - Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resistant steels for general purposes

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/24

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English Version

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

Aciers inoxydables - Partie 3 : Conditions techniques de livraison pour les demi-produits, barres, fils, 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 6 November 2023.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 10088-3:2023 (E)

Contents	Page
European foreword	3
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Designation and ordering	8
4.1 Designation of steel grades	8
4.2 Designation to be used on ordering	8
5 Classification of grades	9
6 Requirements	9
6.1 Steelmaking process	9
6.2 Delivery condition	9
6.3 Chemical composition	9
6.4 Chemical corrosion resistance properties	9
6.5 Mechanical properties	10
6.6 Surface quality	10
6.7 Internal soundness	11
6.8 Formability at room temperature	11
6.9 Dimensions and tolerances on dimensions and shape	11
6.10 Calculation of mass and tolerances on mass	11
7 Inspection and testing	12
7.1 General	12
7.2 Agreement on tests and inspection documents	12
7.3 Specific inspection and testing	12
7.3.1 Extent of testing	12
7.3.2 Selection and preparation of samples	13
7.4 Test methods	13
7.5 Retests	14
8 Marking	14
Annex A (informative) List of all stainless steel grades that appear in the document	79
Annex B (informative) Guidelines for further treatment (including heat treatment) in fabrication 82	82
Annex C (informative) Availability of corrosion resistant steel wire in the cold work-hardened condition	90
Annex D (informative) Applicable dimensional standards	93
Bibliography	94

European foreword

This document (EN 10088-3:2023) has been prepared by Technical Committee CEN/TC 459 “ECISS - European Committee for Iron and Steel Standardization¹”, the secretariat of which is held by AFNOR.

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 June 2024, and conflicting national standards shall be withdrawn at the latest by June 2024.

This document supersedes EN 10088-3:2014.

In comparison with the previous edition, the following technical modifications have been made:

- a) addition of austenitic grades 1.4681, 1.4391, addition of austenitic-ferritic (duplex) grade 1.4670, addition of ferritic grades 1.4106, 1.4114, 1.4045, addition of martensitic grade 1.4037;
- b) chemical composition was changed for following grades: austenitic grades 1.4310, 1.4404, 1.4529, ferritic grade 1.4003 and for martensitic grade 1.4028, 1.4116;
- c) removal of austenitic grades, 1.4319, 1.4537;
- d) mechanical values for bright bars have been changed for austenitic grades 1.4301, 1.4307 for ferritic grades 1.4509, for martensitic grades 1.4028, 1.44418 and for austeno-ferritic grades 1.4362. Mechanical values for bright bars have been added for martensitic grade 1.4021 in QT800 condition and for 1.4057 in QT900 condition;
- e) introduction of the possibility to use modelling for the determination of tensile properties;
- f) columns have swapped places in Table 7 for better reading;
- g) new Annex A lists all grades that appear in this document by ascending steel number.

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 C);
- *Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resistant steels for general purposes*;
- *Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resistant 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*.

¹ Through its sub-committee SC 5 “Steels for heat treatment, alloy steels, free-cutting steels and stainless steels”, (secretariat: DIN).

EN 10088-3:2023 (E)

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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

Introduction

The European Committee for Standardization (CEN) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents applied to seven steel grades, given in 8.3, A and B and which is claimed to be relevant for the following clause(s) of this document:

Clauses 8, A and B.

CEN takes no position concerning the evidence, validity and scope of these patent rights. The holders of these patent rights have ensured 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:

Grade: 1.4662

Outokumpu Stainless AB

SE-77480 Avesta, Sweden

Grade 1.4062, 1.4669, 1.4670

Ugitech

F-73403 Ugine Cedex, France,

Grade 1.4062, 1.4669

Industeel

F-71200 Creusot, 56 Rue Clemenceau, France

Grade 1.4646, 1.4611, 1.4613

Acciai Speciali Terni

I-05100 Terni, Italy

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 shall not be held responsible for identifying any or all such patent rights.

EN 10088-3:2023 (E)

1 Scope

This document 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 resistant stainless steels for general purposes.

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

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

This document does not apply to components manufactured by further processing of the product forms listed above with quality characteristics altered as a result of such further processing.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 10021, *General technical delivery conditions for steel products*

EN 10079, *Definition of steel products*

EN 10088-1:2023, *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, *Steel products — Inspection documents — List of information and description*

EN 10204, *Metallic products — Types of inspection documents*

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 148-1, *Metallic materials — Charpy pendulum impact test — Part 1: Test method (ISO 148-1)*

EN ISO 286-1, *Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 1: Basis of tolerances, deviations and fits (ISO 286-1)*

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

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 sulfuric acid (ISO 3651-2)*

EN ISO 4885, *Ferrous materials — Heat treatments — Vocabulary (ISO 4885)*

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

EN ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1)*

EN ISO 6892-2, *Metallic materials — Tensile testing — Part 2: Method of test at elevated temperature (ISO 6892-2)*

EN ISO 9443, *Surface quality classes for hot-rolled bars and wire rod (ISO 9443)*

EN ISO 14284, *Steel and iron — Sampling and preparation of samples for the determination of chemical composition (ISO 14284)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN