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Stainless steel bars for pressure purposes

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

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English Version

Stainless steel bars for pressure purposes

Barres en acier inoxydable pour appareils à pression

Stäbe aus nichtrostendem Stahl für Druckbehälter

This European Standard was approved by CEN on 15 April 2016.

This European Standard was corrected and reissued by the CEN-CENELEC Management Centre on 2016-07-27.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 10272:2016) has been prepared by Technical Committee ECISS/TC 107 "Steels for pressure purposes", 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of an identical text or by endorsement, at the latest by January 2017, and conflicting national standards shall be withdrawn at the latest by January 2017.

This document supersedes EN 10272:2007.

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 EU Directive(s).

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

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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 concerning two steel grades given in 10.2, Annex A and Annex B.

CEN takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured CEN that he/she is willing to negotiate licences either free of charge or under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with CEN. Information may be obtained from:

Outokumpu OYJ

FI - 02200 Espoo, Finland

for steel grades 1.4162 and 1.4662

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CEN and CENELEC maintain online lists of patents relevant to their standards. Users are encouraged to consult the lists for the most up to date information concerning patents (ftp://ftp.cencenelec.eu/EN/IPR/Patents/IPRdeclaration.pdf).

1 Scope

This European Standard specifies the technical delivery conditions for hot and cold formed stainless steel bars for the construction of pressure equipment supplied in accordance with one of the process routes and surface finishes listed in Table 6.

The general technical delivery conditions in EN 10021 also apply.

NOTE Once this European Standard is published in the Official Journal of the European Union (OJEU) under Directive 2014/68/EU, presumption of conformity to the Essential Safety Requirements (ESRs) of Directive 2014/68/EU is limited to technical data of materials in this European Standard and does not presume adequacy of the material to a specific item of equipment. Consequently, the assessment of the technical data stated in this material standard against the design requirements of this specific item of equipment to verify that the ESRs of the Pressure Equipment Directive are satisfied, needs to be done.

2 Normative references

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

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

EN 10021, General technical delivery conditions for steel products

EN 10027-1, Designation systems for steels — Part 1: Steel names

EN 10027-2, Designation systems for steels — Part 2: Numerical system

EN 10052:1993, Vocabulary of heat treatment terms for ferrous products

EN 10058, Hot rolled flat steel bars for general purposes — Dimensions and tolerances on shape and dimensions

EN 10059, Hot rolled square steel bars for general purposes — Dimensions and tolerances on shape and dimensions

EN 10060, Hot rolled round steel bars for general purposes — Dimensions and tolerances on shape and dimensions

EN 10061, Hot rolled hexagon steel bars for general purposes — Dimensions and tolerances on shape and dimensions

EN 10079:2007, Definition of steel products

EN 10088-1:2014, Stainless steels — Part 1: List of stainless steels

EN 10168:2004, Steel products — Inspection documents — List of information and description

EN 10204:2004, Metallic products — Types of inspection documents

EN 10221:1995, Surface quality classes for hot-rolled bars and rods — Technical delivery conditions

EN 10278, Dimensions and tolerances of bright steel products

EN 10308, Non destructive testing — Ultrasonic testing of steel bars

EN ISO 148-1:2010, Metallic materials — Charpy pendulum impact test — Part 1: Test method (ISO 148-1:2009)

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

EN ISO 6892-1:2009, Metallic materials - Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1:2009)

EN ISO 6892-2:2011, Metallic materials — Tensile testing — Part 2: Method of test at elevated temperature (ISO 6892-2:2011)

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

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

CEN/TR 10261, Iron and steel — European standards for the determination of chemical composition

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