BS EN 10028-6:2017

BSI Standards Publication

Flat products made of steels for pressure purposes

Part 6: Weldable fine grain steels, quenched and tempered

Documents
Document Sharing Hub

Full document details: BS EN 10028-6:2017

National foreword

This British Standard is the UK implementation of EN 10028-6:2017. It supersedes BS EN 10028-6:2009, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ISE/107, Steels for Pressure Purposes.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2017
Published by BSI Standards Limited 2017

ISBN 978 0 580 87850 3

ICS 77.140.30; 77.140.50

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 August 2017.

Amendments/corrigenda issued since publication

Date	Text affected

Documents
Document Sharing Hub

Full document details: BS EN 10028-6:2017

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 10028-6

July 2017

ICS 77.140.30; 77.140.50

Supersedes EN 10028-6:2009

English Version

Flat products made of steels for pressure purposes - Part 6: Weldable fine grain steels, quenched and tempered

Produits plats en acier pour appareils à pression - Partie 6 : Aciers soudable à grains fins, trempés et revenus

Flacherzeugnisse aus Druckbehälterstählen - Teil 6: Schweißgeeignete Feinkornbaustähle, vergütet

This European Standard was approved by CEN on 7 May 2017.

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.

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

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

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

© 2017 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN 10028-6:2017 E

Documents
Document Sharing Hub

Full document details: BS EN 10028-6:2017

Contents

Page

European foreword ... 3
1 Scope ... 4
2 Normative references ... 4
3 Terms and definitions ... 4
4 Tolerances on dimensions ... 4
5 Calculation of mass ... 4
6 Classification and designation ... 4
6.1 Classification ... 4
6.2 Designation ... 5
7 Information to be supplied by the purchaser ... 5
7.1 Mandatory information ... 5
7.2 Options ... 5
7.3 Example for ordering ... 5
8 Requirements ... 5
8.1 Steelmaking process ... 5
8.2 Delivery condition ... 5
8.3 Chemical composition ... 6
8.4 Mechanical properties ... 6
8.5 Surface condition ... 6
8.6 Internal soundness ... 6
9 Inspection ... 6
9.1 Types of inspections and inspections documents ... 6
9.2 Tests to be carried out ... 6
9.3 Retests, sorting and reprocessing ... 6
10 Sampling ... 6
11 Test methods ... 6
12 Marking ... 6
Annex A (informative) Information on weldability ... 11
Annex B (informative) Changes to the previous version EN 10028-6:2009 ... 12
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of Directive 2014/68/EU aimed to be covered ... 13

Documents
Document Sharing Hub
Full document details: BS EN 10028-6:2017

European foreword

This document (EN 10028-6:2017) 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 2018 and conflicting national standards shall be withdrawn at the latest by January 2018.

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

This document supersedes EN 10028-6:2009.

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 Directive 2014/68/EU.

For relationship with Directive 2014/68/EU, see informative Annex ZA, which is an integral part of this document.

A list of changes between this document and the previous version can be found in Annex B.

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

AVA Documents
Document Sharing Hub

Full document details: BS EN 10028-6:2017

1 Scope

This European Standard specifies the requirements for flat products for pressure equipment made of weldable fine grain steels, quenched and tempered, as specified in Table 1.

The requirements in EN 10028-1:2017 also apply.

NOTE Once this European Standard is published in the EU Official Journal (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 (Part 1 and the other relevant part of the series) 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 Directive 2014/68/EU 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 1011-1:2009, *Welding — Recommendations for welding of metallic materials — Part 1: General guidance for arc welding*

EN 1011-2:2001, *Welding — Recommendations for welding of metallic materials — Part 2: Arc welding of ferritic steels*

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

EN 10028-1:2017, *Flat products made of steels for pressure purposes — Part 1: General requirements*

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

3 Terms and definitions

For the purposes of this document the terms and definitions given in EN 10028-1:2017 apply.

4 Tolerances on dimensions

See EN 10028-1:2017.

5 Calculation of mass

See EN 10028-1:2017.

6 Classification and designation

6.1 Classification

6.1.1 This document covers the steel grades given in Table 1 in four qualities:

a) the basic series (P...Q);

b) series with elevated temperature properties (P...QH);

c) series with low temperature properties down to −40 °C (P...QL1);

Documents
Document Sharing Hub
Full document details: BS EN 10028-6:2017