Seamless steel tubes for pressure purposes — Technical delivery conditions
Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties
National foreword

This British Standard is the UK implementation of EN 10216-2:2013. It supersedes BS EN 10216-2:2002 +A2:2007 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ISE/110, Steel Tubes, and Iron and Steel Fittings.

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.

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

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Foreword

This document (EN 10216-2:2013) has been prepared by Technical Committee ECISS/TC 110 “Steel tubes and fittings for steel tubes”, the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by June 2014, and conflicting national standards shall be withdrawn at the latest by June 2014.

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.


For the list of the most significant technical changes that have been made in this new edition, see Annex B.

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.

This European Standard consists of the following parts, under the general title "Seamless steel tubes for pressure purposes – Technical delivery conditions":

— Part 1: Non-alloy steel tubes with specified room temperature properties
— Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties (the present document)
— Part 3: Alloy fine grain steel tubes
— Part 4: Non-alloy and alloy steel tubes with specified low temperature properties
— Part 5: Stainless steel tubes

Another European Standard series covering tubes for pressure purposes is:

EN 10217, Welded steel tubes for pressure purposes – Technical delivery conditions

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey 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 a patent concerning steel grade 1.7378.

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 licenses 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:

Vallourec & Mannesmann Tubes
V&M Deutschland Gmbh
Theodorstrasse 90
D-40472 Düsseldorf

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1 Scope

This European Standard specifies the technical delivery conditions in two test categories for seamless tubes of circular cross section, with specified elevated temperature properties, made of non-alloy and alloy steel.

This Part of EN 10216 may also be applied for tubes of non-circular cross section; necessary modification should be agreed at the time of enquiry and order.

NOTE Once this standard is published in the Official Journal of the European Union (OJEU) under Directive 97/23/EC, presumption of conformity to the Essential Safety Requirements (ESR) of Directive 97/23/EC is limited to technical data of materials in this 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 by the designer or manufacturer of the pressure equipment, taking also into account the subsequent manufacturing processes which may affect properties of the base materials.

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, Definitions and classification of grades of steel
EN 10021, General technical delivery requirements 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, Vocabulary of heat treatment terms for ferrous products
EN 10168:2004, Steel products - Inspection documents - List of information and description
EN 10204:2004, Metallic products - Types of inspection documents
EN 10220, Seamless and welded steel tubes - Dimensions and masses per unit length
EN 10266, Steel tubes, fittings and structural hollow sections - Symbols and definitions of terms for use in product standards
CEN/TR 10261, Iron and steel - Review of available methods of chemical analysis
EN ISO 2566-1, Steel - Conversion of elongation values - Part 1: Carbon and low-alloy steels (ISO 2566-1)