BS EN 10217-1:2019
Incorporating corrigendum May 2019

BSI Standards Publication

Welded steel tubes for pressure purposes - Technical delivery conditions

Part 1: Electric welded and submerged arc welded non-alloy steel tubes with specified room temperature properties

National foreword

This British Standard is the UK implementation of EN 10217-1:2019. It supersedes BS EN 10217-1:2002, which is withdrawn.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.

BSI, as a member of CEN, is obliged to publish EN 10217-1:2019 as a British Standard. However, attention is drawn to the fact that during the development of this European Standard, the UK committee voted against its approval.

The UK committee draws users' attention to the fact that BS EN 10217 Parts 1 to 7 are product standards and are therefore intended to assist specifiers, designers and other users of the documents by setting out a series of tube and pipe grades intended for use in pressure applications. The non-alloy and low-alloy grades in Parts 1 to 6 are comparable (interchangeable) with seamless grades of the same designations in BS EN 10216 Parts 1 to 4. Similarly the stainless grades in Part 7 are comparable to seamless grades of the same designations in BS EN 10216 Part 5.

It should be noted that guidance on material suitability for specific applications is not provided in product standards. It is therefore important that specifiers, designers and other users of the documents understand the differences between the types and characteristics of the welded pressure pipes covered in the standards so that the appropriate type and grade can be specified or selected for the application concerned.

In particular, it should be noted that, although BS EN 13480 supports essential requirements of EU Directive 2014/68/EU (the Pressure Equipment Directive or PED), the TR1 grades in BS EN 10217-1 are not suitable for use under the PED (as indicated in Table 4 of the Standard). This is because, in particular, they do not meet the essential requirements of the Directive in respect of ageing (determined by the chemical composition) or ductility (specified as minimum Charpy impact requirements). In addition, most HFW TR1 grades imported into the UK are cold-formed and hence the weld seam will not have been heat-treated which means that the weld area is likely to be highly stressed, which can lead to cracking if the tube is subjected to additional processing. The UK committee therefore recommends that users do not use any HFW products certified or sold as being of BS EN 10217-1 TR1 grade. Instead, to ensure PED compliance, the UK committee recommends that hot-finished HFW tubes in accordance with BS EN 10217-2 should be used for most pressure applications, although BS EN 10217-1 TR2 grades may be considered in some cases.

As BS EN 10217 steel tubes and pipes can be used for a whole range of applications from building services to critical requirements involving gas or chemicals, it is important that the specifier, designer or user selects the most suitable tube or pipe type and grade from the seven parts of the standard provided.

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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Amendments/corrigenda issued since publication

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31 May 2019	Correction to running headers

EUROPEAN STANDARD

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EN 10217-1

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ICS 23.040.10; 77.140.75

Supersedes EN 10217-1:2002

English Version

Welded steel tubes for pressure purposes - Technical delivery conditions - Part 1: Electric welded and submerged arc welded non-alloy steel tubes with specified room temperature properties

Tubes soudés en acier pour service sous pression - Conditions techniques de livraison - Partie 1 : Tubes en acier non allié, soudés électriquement et soudés à l'arc immergé, avec caractéristiques spécifiées à température ambiante

Geschweißte Stahlrohre für Druckbeanspruchungen - Technische Lieferbedingungen - Teil 1: Elektrisch geschweißte und unterpulvergeschweißte Rohre aus unlegierten Stählen mit festgelegten Eigenschaften bei Raumtemperatur

This European Standard was approved by CEN on 25 February 2019.

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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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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