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Austenitic, austenitic-ferritic and ferritic longitudinally welded stainless steel tubes for the food and chemical industry



EESTI STANDARDI EESSÕNA

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ICS 23.040.10

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EUROPEAN STANDARD

EN 10357

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2022

ICS 23.040.10

Supersedes EN 10357:2013

English Version

Austenitic, austenitic-ferritic and ferritic longitudinally welded stainless steel tubes for the food and chemical industry

Tubes soudés longitudinalement en acier inoxydable austénitique, ferritique et austéno-ferritique pour l'industrie alimentaire et chimique

Austenitische, austenitisch-ferritische und ferritische längsnahtgeschweißte Rohre aus nichtrostendem Stahl für die Lebensmittel- und chemische Industrie

This European Standard was approved by CEN on 17 July 2022.

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

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European foreword

This document (EN 10357:2022) has been prepared by Technical Committee CEN/TC 459 “ECISS – European Committee for Iron and Steel Standardization”¹, 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of an identical text or by endorsement, at the latest by February 2023, and conflicting national standards shall be withdrawn at the latest by February 2023.

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

This document supersedes EN 10357:2013.

The follow significant technical changes were made in comparison to the previous version:

- Subclause 4.1, Table 1: added new dimension;
- Subclause 4.1, Table 2: deleted series B, changed dimensions in series C;
- Clause 7, Table 3: modified surface characteristics and roughness and symbols.

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.

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¹ Through its sub-committee SC 10 “Steel tubes, and iron and steel fittings” (secretariat: UNI),

1 Scope

This document specifies dimensions, tolerances, materials, internal and external surface characteristics, and marking of longitudinally fusion welded stainless steel tubes for the food and chemical industry.

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 10028-7:2016, *Flat products made of steels for pressure purposes - Part 7: Stainless steels*

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

EN 10217-7, *Welded steel tubes for pressure purposes - Technical delivery conditions - Part 7: Stainless steel tubes*

EN 10296-2, *Welded circular steel tubes for mechanical and general engineering purposes - Technical delivery conditions - Part 2: Stainless steel*

EN ISO 21920-3, *Geometrical product specifications (GPS) - Surface texture: Profile - Part 3: Specification operators (ISO 21920-3)*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Dimensions and tolerances

4.1 Dimensions and tolerances for tubes

Dimensions and tolerances for tubes are indicated in Table 1 and Table 2.