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STANDARD

1127

Third edition
1992-12-15

**Stainless steel tubes — Dimensions, tolerances
and conventional masses per unit length**

*Tubes en acier inoxydable — Dimensions, tolérances et masses linéiques
conventionnelles*



Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 1127 was prepared by Technical Committee ISO/TC 5, *Ferrous metal pipes and metallic fittings*, Sub-Committee SC 1, *Steel tubes*.

This third edition cancels and replaces the second edition (ISO 1127:1980), of which tables 1 and 2 (now tables 3 and 4) have been technically revised. In particular, the diameter 12,7 mm has been added to series 2 in these two tables.

Annex A of this International Standard is for information only.

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Stainless steel tubes — Dimensions, tolerances and conventional masses per unit length

1 Scope

This International Standard specifies the diameters, thicknesses, tolerances and conventional masses per unit length of stainless steel tubes.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5252:1991, *Steel tubes — Tolerance systems*.

3 Dimensions

The outside diameters and thicknesses of the tubes specified in this International Standard have been selected from ISO 4200. If thicknesses greater than 14,2 mm are needed, they should be chosen from ISO 4200.

4 Tolerances

The tolerances permitted on the outside diameter and thickness of the tubes result from the method of manufacture, the steel types and the heat treatment. The tolerances shall be selected from the values given in tables 1 and 2.

4.1 Tolerances on outside diameter

See table 1.

Table 1 — Tolerances on outside diameter

Tolerance class	Tolerance on outside diameter
D ₁	± 1,5 % with ± 0,75 mm min.
D ₂	± 1 % with ± 0,5 mm min.
D ₃	± 0,75 % with ± 0,3 mm min.
D ₄	± 0,5 % with ± 0,1 mm min.

The tolerances on outside diameter include ovality.

4.2 Tolerances on thickness

See table 2.

Table 2 — Tolerances on thickness

Tolerance class	Tolerance on thickness
T ₁	± 15 % with ± 0,6 mm min.
T ₂	± 12,5 % with ± 0,4 mm min.
T ₃	± 10 % with ± 0,2 mm min.
T ₄	± 7,5 % with ± 0,15 mm min.
T ₅	± 5 % with ± 0,1 mm min.

The tolerances on thickness include eccentricity.