

INTERNATIONAL STANDARD

ISO
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Pipework — General requirements for stripwound flexible metal hoses

*Tuyauteries — Exigences générales pour tuyaux métalliques flexibles
agrafés*



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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 7657 was prepared by Technical Committee ISO/TC 5, *Ferrous metal pipes and metallic fittings*, Subcommittee SC 11, *Flexible interlocked and convoluted metallic hoses*.

This second edition cancels and replaces the first edition (ISO 7657:1985), of which it constitutes a technical revision.

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Pipework — General requirements for stripwound flexible metal hoses

1 Scope

This International standard defines the conditions to be met for stripwound flexible metal hoses, without coating as defined in ISO 7369:1983, 4.1.10.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were 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 editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 554:1976, *Standard atmospheres for conditioning and/or testing — Specifications*.

ISO 683-13:1986, *Heat-treatable steels, alloy steels and free-cutting steels — Part 13: Wrought stainless steels*.

ISO 1634-1:1987, *Wrought copper and copper alloy plate, sheet and strip — Part 1: Technical conditions of delivery for plate, sheet and strip for general purposes*.

ISO 2081:1986, *Metallic coatings — Electroplated coatings of zinc on iron or steel*.

ISO 6317:1982, *Hot-rolled carbon steel strip of commercial and drawing qualities*.

ISO 7369:1983, *Pipework — Flexible metallic hoses — Vocabulary of general terms*.

ISO 7658:1984, *Pipework — Stripwound flexible metal hoses — Testing and verification of characteristics*.

3 Manufacture

All stripwound flexible metal hoses defined in this International Standard are manufactured from helically wound preformed strip, generally with a right-hand lead where the turns, with or without packing, are connected together by single or double overlapping. Flexibility is achieved by adjacent turns sliding on each other.

4 Materials — Strip quality

4.1 Stripwound flexible metal hoses made of protected unalloyed steel (carbon steel)

Rolled strip in accordance with ISO 6317, and protected.

The following types are distinguished:

- type A, hot-dipped galvanized steel;
- type B, electrogalvanized steel;
- type C, see ISO 6317.

Any other protection shall have, at least, the characteristics of protection Fe/Zn 5C, defined and verified in accordance with ISO 2081.

4.2 Stripwound flexible metal hoses made of stainless steel

Rolled strip in accordance with ISO 683-13.

The following types are distinguished: