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STANDARD

9330-1

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**Welded steel tubes for pressure purposes —
Technical delivery conditions —**

**Part 1:
Unalloyed steel tubes with specified room
temperature properties**

*Tubes soudés en acier pour service sous pression — Conditions techniques de
livraison —*

*Partie 1: Tubes soudés en aciers non alliés avec caractéristiques spécifiées à
température ambiante*



Reference number
ISO 9330-1 : 1990 (E)

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 approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 9330-1 was prepared by Technical Committee ISO/TC 17, *Steel*.

It constitutes a partial revision of ISO 2604-3 : 1975 and ISO 2604-6 : 1978.

ISO 9330 consists of the following parts, under the general title *Welded steel tubes for pressure purposes — Technical delivery conditions*:

- *Part 1: Unalloyed steel tubes with specified room temperature properties*
- *Part 2: Electric resistance and induction welded unalloyed and alloyed steel tubes with specified elevated temperature properties*
- *Part 3: Electric resistance and induction welded unalloyed and alloyed steel tubes with specified low temperature properties*
- *Part 4: Submerged arc-welded unalloyed and alloyed steel tubes with specified elevated temperature properties*
- *Part 5: Submerged arc-welded unalloyed and alloyed steel tubes with specified low temperature properties*

Annex A of this part of ISO 9330 is for information only.

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Welded steel tubes for pressure purposes — Technical delivery conditions —

Part 1: Unalloyed steel tubes with specified room temperature properties

1 Scope

1.1 This part of ISO 9330 specifies the technical delivery conditions for welded tubes of circular cross-section, made of unalloyed quality steel with specified room temperature properties. These tubes are intended for pressure purposes including the transport of fluids under pressure.

Certain application standards and regulations permit the use of these tubes up to 350 °C (see annex A).

NOTE — The word "tube" is synonymous with "pipe".

1.2 See ISO 404 for general technical delivery requirements.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 9330. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 9330 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 377 : 1985, *Wrought steel — Selection and preparation of samples and test pieces.*

ISO 404 : 1981, *Steel and steel products — General technical delivery requirements.*

ISO 1106-3 : 1984, *Recommended practice for radiographic examination of fusion welded joints — Part 3: Fusion welded circumferential joints in steel pipes of up to 50 mm wall thickness.*

ISO 3205 : 1976, *Preferred test temperatures.*

ISO 2566-1 : 1984, *Steel — Conversion of elongation values — Part 1: Carbon and low alloy steels.*

ISO 4200 : 1985, *Plain end steel tubes, welded and seamless — General tables of dimensions and masses per unit length.*

ISO 4948-1 : 1982, *Steels — Classification — Part 1: Classification of steels into unalloyed and alloy steels based on chemical composition.*

ISO 5252 : 1977, *Steel tubes — Tolerance systems.*

ISO 6761 : 1981, *Steel tubes — Preparation of ends of tubes and fittings for welding.*

ISO 6892 : 1981, *Metallic materials — Tensile testing.*

ISO 7438 : 1985, *Metallic materials — Bend test.*

ISO 8492 : 1986, *Metallic materials — Tube — Flattening test.*

ISO 8493 : 1986, *Metallic materials — Tube — Drift expanding test.*

ISO 9302 : 1989, *Seamless and welded (except submerged arc-welded) steel tubes for pressure purposes — Electromagnetic testing for verification of hydraulic leak-tightness.*

ISO 9303 : 1989, *Seamless and welded (except submerged arc-welded) steel tubes for pressure purposes — Full peripheral ultrasonic testing for the detection of longitudinal imperfections.*

ISO 9304 : 1989, *Seamless and welded (except submerged arc-welded) steel tubes for pressure purposes — Eddy current testing for the detection of imperfections.*

ISO 9402 : 1989, *Seamless and welded (except submerged arc-welded) steel tubes for pressure purposes — Full peripheral magnetic transducer/flux leakage testing of ferromagnetic steel tubes for the detection of longitudinal imperfections.*

ISO 9764 : 1989, *Electric resistance and induction welded steel tubes for pressure purposes — Ultrasonic testing of the weld seam for the detection of longitudinal imperfections.*