
**Steel wire and wire products — Hose
reinforcement wire**

Fils et produits tréfilés en acier — Fil d'armature pour flexibles



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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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.

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The main task of technical committees is to prepare International Standards. 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.

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

ISO 23717 was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 17, *Steel wire rod and wire products*.

Steel wire and wire products — Hose reinforcement wire

1 Scope

This International Standard specifies the composition, dimensions and mechanical properties of steel wire with a high mass fraction of carbon, generally brass coated, for reinforcing high-pressure hoses. It is applicable to multiple parallel wires, braided or spirally wrapped for reinforcement in a rubber or synthetic hose which is made to withstand a relatively high bursting pressure.

2 Normative references

The following referenced documents are indispensable for the application 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.

ISO 404:1992, *Steel and steel products — General technical delivery requirements*

ISO 6892:1998, *Metallic materials — Tensile testing at ambient temperature*

ISO 7800:2003, *Metallic materials — Wire — Simple torsion test*

ISO 7801:1984, *Metallic materials — Wire — Reverse bend test*

ISO/TR 9769:1991, *Steel and Iron — Review of available methods of analysis*

ISO 10474:1991, *Steel and steel products — Inspection documents*

ISO 16120-1:2001, *Non-alloy steel wire rod for conversion to wire — Part 1: General requirements*

ISO 16120-2:2001, *Non-alloy steel wire rod for conversion to wire — Part 2: Specific requirements for general purpose wire rod*

ISO 16120-4:2001, *Non-alloy steel wire rod for conversion to wire — Part 4: Specific requirements for wire rod for special applications*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

nominal diameter

d

value of the diameter by which the wire is designated and specified by the purchaser

NOTE 1 The nominal diameter is expressed in millimetres.

NOTE 2 This is the basis on which the values of all relevant characteristics are determined for the acceptance of the wire.