
**Steel wire ropes — Socketing
procedures — Molten metal and resin
socketing**

*Câbles en acier — Procédés de manchonnage — Manchonnage à
l'aide de métal fondu et de résine*

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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 17558 was prepared by Technical Committee ISO/TC 105, *Steel wire ropes*.

This first edition of ISO 17558 cancels and replaces ISO 7595:1984 and ISO/TR 7596:1982, of which it constitutes a technical revision.

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Introduction

This International Standard was developed in response to a worldwide demand for a specification combining the procedures for the socketing of steel wire ropes by molten metal and resin. With an increasing use of resin as a socketing medium, opportunity was taken to review and update the requirements formerly given by ISO/TR 7596.

Each socket design should be used only with the appropriate method or methods of socketing which have been proven as being satisfactory by prototype testing.

Sockets, if properly attached to the wire rope, should sustain the full breaking force of the rope. This is important because accidental release of a load due to failure of a rope termination could create a hazard.

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Steel wire ropes — Socketing procedures — Molten metal and resin socketing

1 Scope

This International Standard specifies procedures for the molten metal and resin socketing of steel wire ropes. It also specifies a type testing method for assessing the performance of a socketing system.

The procedures described in this International Standard are for use with sockets having a strength exceeding that of the minimum breaking force of the rope to be socketed and made from a material that remains unchanged when the socketing media is hot metal.

Operating temperature limits for ropes socketed with lead-based alloys, zinc and zinc-based alloys and resin are given for information in Annex E.

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 75-2:2004, *Plastics — Determination of temperature of deflection under load — Part 2: Plastics and ebonite*

ISO 604, *Plastics — Determination of compressive properties*

ISO 3838, *Crude petroleum and liquid or solid petroleum products — Determination of density or relative density — Capillary-stoppered pycnometer and graduated bicapillary pycnometer methods*

ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

ISO 17893, *Steel wire ropes — Definitions, designation and classification*

EN 59, *Glass reinforced plastics — Measurement of hardness by means of a Barcol impressor*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 17893 and the following apply.

3.1

socket

wire rope termination incorporating a socket basket

See Figure 1.