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First edition
1991-12-15

Steel for the prestressing of concrete —

Part 3: Quenched and tempered wire

*Acier pour armatures de précontrainte —
Partie 3: Fil trempé et revenu*



Reference number
ISO 6934-3:1991(E)

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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 6934-3 was prepared by Technical Committee ISO/TC 17, *Steel*, Sub-Committee SC 16, *Steels for the reinforcement and prestressing of concrete*.

ISO 6934 consists of the following parts, under the general title *Steel for the prestressing of concrete*:

- *Part 1: General requirements*
- *Part 2: Cold-drawn wire*
- *Part 3: Quenched and tempered wire*
- *Part 4: Strand*
- *Part 5: Hot-rolled steel bars with or without subsequent processing*

Annex A of this part of ISO 6934 is for information only.

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International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

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Steel for the prestressing of concrete —

Part 3:

Quenched and tempered wire

1 Scope

This part of ISO 6934 specifies requirements for round wire made of quenched and tempered high tensile steel, with a surface which is either plain, ribbed, grooved or indented. The product is delivered in coils, according to the general requirements specified in ISO 6934-1.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 6934. 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 6934 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 6934-1:1991, *Steel for the prestressing of concrete — Part 1: General requirements.*

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

ISO 10065:1990, *Steel bars for reinforcement of concrete — Bend and rebend tests.*

3 Definitions

For the purposes of this part of ISO 6934, the definitions given in ISO 6934-1 and the following definition apply.

3.1 grooved wire: Wire whose surface has continuous helical grooves along the length.

4 Conditions of manufacture

The wire shall be manufactured from high tensile steel in accordance with ISO 6934-1.

The wire shall be supplied without welds or other joints.

5 Surface configuration

The surface of the wire may be either plain, ribbed, grooved or indented. The purpose of the ribbed, grooved or indented surface is to improve bond properties between wire and concrete. The type of surface configuration shall be specified by the purchaser.

Examples of surface configurations are given in annex A.

6 Properties

6.1 Dimensions, masses and strength

Required properties and data for information of quenched and tempered wire are given in table 1.