



ISO 6934-2

**Steel for the prestressing of
concrete —**

**Part 2:
Cold-drawn wire**

Acier pour armatures de précontrainte —

Partie 2: Fil tréfilé à froid

**Second edition
2024-12**

This is a preview of ISO 6934-2:2024. [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

This is a preview of ISO 6934-2:2024. [Click here to purchase the full version from the ANSI store.](#)

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Test methods	1
5 Conditions of manufacture	1
6 Surface configuration	1
7 Properties	2
7.1 General.....	2
7.2 Dimensions and properties of mill coil wire.....	2
7.2.1 Dimensions, masses and tensile properties.....	2
7.2.2 Elongation and ductility.....	2
7.2.3 Relaxation.....	3
7.2.4 Fatigue.....	3
7.2.5 Torsion.....	3
7.2.6 Stress corrosion test.....	3
7.3 Dimensions and properties of stress-relieved wire.....	4
7.3.1 Dimensions, masses and tensile properties.....	4
7.3.2 Elongation and ductility.....	4
7.3.3 Relaxation.....	5
7.3.4 Fatigue.....	5
7.3.5 Stress corrosion test.....	6
8 Designation	6
9 Delivery conditions	6
9.1 General.....	6
9.2 Coil size.....	6
9.3 Curvature of stress-relieved wires.....	7
Annex A (informative) Examples of indentations, crimps and spiral ribs	8
Annex B (informative) Recommended internal diameter of coil	11

This is a preview of ISO 6934-2:2024. [Click here to purchase the full version from the ANSI store.](#)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 16, *Steels for the reinforcement and prestressing of concrete*.

This second edition cancels and replaces the first edition (ISO 6934-2:1991), which has been technically revised.

The main changes are as follows:

- ISO 7800 and ISO 15630-3 are referenced as inspection method standards;
- the following are added for mill coil wire in [Table 1](#):
 - requirements of maximum value of maximum tensile load and minimum constriction;
 - notes for characteristic 0,1 % proof forces;
 - notes for confidence interval of characteristic value;
- requirements and criteria of torsion test and stress corrosion for mill coil wire;
- fatigue test method for mill coil wire;
- the following diameter are added for stress-relieved wire in [Table 2](#):
 - 1 570 MPa: 6,25 mm, 7,5 mm, 9,5 mm, 10,5 mm;
 - 1 670 MPa: 7,5 mm;
 - 1 770 MPa: 7 mm;
 - 1 860 MPa: 4 mm, 5 mm, 6 mm, 7 mm;
- requirements and criteria of stress corrosion test, fatigue test method and maximum value of maximum tensile load are added for stress-relieved wire;

This is a preview of ISO 6934-2:2024. [Click here to purchase the full version from the ANSI store.](#)

- [Figure A.3](#) has been added in [Annex A](#);
- [Figure A.1](#) and [Figure A.2](#) have been updated.

A list of all parts in the ISO 6934 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.