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**Steel wire for mechanical springs —**  
**Part 1:**  
**General requirements**

*Fils en acier pour ressorts mécaniques —*  
*Partie 1: Exigences générales*

Sample Document

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# Contents

Page

|                                                                |    |
|----------------------------------------------------------------|----|
| Foreword .....                                                 | iv |
| 1 Scope .....                                                  | 1  |
| 2 Normative references .....                                   | 1  |
| 3 Terms and definitions .....                                  | 2  |
| 4 Information to be supplied by the purchaser .....            | 2  |
| 5 Requirements .....                                           | 3  |
| 5.1 Dimensional tolerances .....                               | 3  |
| 5.2 Surface quality .....                                      | 5  |
| 6 Inspection and testing .....                                 | 5  |
| 6.1 General .....                                              | 5  |
| 6.2 Selection and preparation of samples and test pieces ..... | 5  |
| 6.3 Chemical analysis .....                                    | 5  |
| 6.4 Tensile test .....                                         | 5  |
| 6.5 Wrapping test .....                                        | 5  |
| 6.6 Coiling test .....                                         | 6  |
| 6.7 Torsion test .....                                         | 6  |
| 6.8 Bend test .....                                            | 6  |
| 6.9 Diameter measurement .....                                 | 6  |
| 6.10 Surface quality test methods .....                        | 6  |
| 6.11 Retests .....                                             | 7  |
| 6.12 Inspection documents .....                                | 7  |
| 7 Marking .....                                                | 7  |
| 8 Complaints .....                                             | 7  |

## 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 3.

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 part of ISO 8458 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8458-1 was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 17, *Steel wire rod and wire products*.

This second edition cancels and replaces the first edition (ISO 8458-1:1989) which has been technically revised.

ISO 8458 consists of the following parts, under the general title *Steel wire for mechanical springs*:

- *Part 1: General requirements*
- *Part 2: Patented cold-drawn non-alloy steel wire*
- *Part 3: Oil-hardened and tempered wire*

# Steel wire for mechanical springs —

## Part 1: General requirements

### 1 Scope

This part of ISO 8458 specifies general requirements for steel spring wire of round cross-section, suitable for the manufacture of mechanical springs.

### 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 8458. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 8458 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 377:1997, *Steel and steel products — Location and preparation of samples and test pieces for mechanical testing*

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

ISO 3887:—<sup>1)</sup>, *Steels — Determination of depth of decarburization*

ISO 4885:1996, *Ferrous products — Heat treatments — Vocabulary*

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

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

ISO 7800:1984, *Metallic materials — Wire — Simple torsion test*

ISO 7802:1983, *Metallic materials — Wire — Wrapping test*

ISO 8458-2, *Steel wire for mechanical springs — Part 2: Patented cold-drawn non-alloy steel wire*

ISO 8458-3, *Steel wire for mechanical springs — Part 3: Oil-hardened and tempered wire*

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

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

ISO 14284:1996 *Steel and iron — Sampling and preparation of samples for the determination of chemical composition*

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1) To be published. (Revision of ISO 3887:1976)