
Steel wire and wire products —
Part 2:
Tolerances on wire dimensions

Fil et produits de fil en acier —

Partie 2: Tolérances sur les dimensions des fils



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Foreword

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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 22034-2 was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 17, *Steel wire rod and wire products*.

ISO 22034 consists of the following parts, under the general title *Steel wire and wire products*:

- *Part 1: General test methods*
- *Part 2: Tolerances on wire dimensions*

Steel wire and wire products —

Part 2: Tolerances on wire dimensions

1 Scope

This part of ISO 22034 specifies the tolerances on the diameter of round wire and, where applicable, on the length of round wire cut to length, for bright (i.e. uncoated) steel wire, metallic-coated steel wire and non-metallic-coated steel wire.

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 6929, *Steel products — Definitions and classification*

3 Terms and definitions

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

3.1 wire

See ISO 6929.

NOTE Wire can be supplied with a metallic or non-metallic coating, or with both, or without a coating.

3.2 cut length

straightened piece of wire cut to a specified length

4 Wire diameter tolerances

4.1 General

Diameter measurements shall be made at any cross-section and shall not differ from the tolerances specified in the relevant tables in this part of ISO 22034.

NOTE 1 The diameter tolerances may vary when cut lengths are supplied by a third party.

NOTE 2 Diameter tolerances of classes T1 to T5 (see Table 1) are calculated as follows:

$$T1 = 0,035 \sqrt{d} ; T2 = 0,027 \sqrt{d} ; T3 = 0,021 \sqrt{d} ; T4 = 0,015 \sqrt{d} ; T5 = 0,010 \sqrt{d}$$

where d is the diameter measured, in millimetres.