

INTERNATIONAL
STANDARD

ISO
10144

First edition
1991-06-01

**Certification scheme for steel bars and wires for
the reinforcement of concrete structures**

*Système particulier de certification des barres et fils d'acier pour le
renforcement des constructions en béton*



Reference number
ISO 10144:1991(E)

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 10144 was prepared by Technical Committee ISO/TC 17, *Steel*.

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Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Certification scheme for steel bars and wires for the reinforcement of concrete structures

1 Scope

This International Standard specifies rules for a certification scheme for continuous production of steel bars and wires for ordinary reinforcement of concrete structures in order to verify the conformity with requirements specified in product standards such as ISO 6935-1 and ISO 6935-2.

A certification scheme for continuous production consists of the following stages:

- suitability testing (see clause 4);
- internal inspection by the producer (see clause 5);
- inspection and supervision by an external body (see clause 6).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard 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 9002:1987, *Quality systems — Model for quality assurance in production and installation*.

ISO/IEC Guide 39:1988, *General requirements for the acceptance of inspection bodies*.

ISO/IEC Guide 40:1983, *General requirements for the acceptance of certification bodies*.

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1 certification scheme: Certification system as related to specified products, processes or services to which the same particular standards and rules, and the same procedure, apply. [ISO/IEC Guide 2]

3.2 certification body: Body that conducts certification of conformity. [ISO/IEC Guide 2]

3.3 characteristic value: Value having a prescribed probability of not being attained in a hypothetical unlimited test series. [ISO 8930]

NOTE 1 Equivalent to *fractile*, which is defined in ISO 3534.

3.4 inspection: Activities such as measuring, examining, testing, gauging one or more characteristics of a product or service and comparing these with specified requirements to determine conformity. [ISO 8402]

3.5 inspection body (for certification): Body that performs inspection services on behalf of a certification body. [ISO/IEC Guide 2]

4 Suitability testing

4.1 Purpose

The purpose of suitability testing is to ensure that the producer has the capability and resources to produce reinforcing steels in accordance with the requirements specified in the product standards.

4.2 Organization

The certification body shall comply with the requirements of ISO/IEC Guide 40.