INTERNATIONAL STANDARD

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Stainless steels for general purposes —

Part 2: Corrosion-resistant semi-finished products, bars, rods and sections

Aciers inoxydables pour usage général —

Partie 2: Demi-produits, barres, fils machine et profils en acier résistant à la corrosion

Reference number
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Contents

Page

Foreword ... **iv**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **2**

4 Designation ... **2**

5 Information to be supplied by the purchaser ... **2**

6 Classification of grades ... **3**

7 Requirements ... **3**
7.1 Manufacturing process ... 3
7.2 Delivery condition ... 3
7.3 Chemical composition ... 3
7.4 Susceptibility to intergranular corrosion ... 4
7.5 Mechanical properties ... 4
7.6 Surface quality ... 4
7.7 Internal soundness ... 5
7.8 Dimensions, tolerances on dimensions, and shape ... 5

8 Inspection, testing, and conformance of products ... **5**
8.1 General ... 5
8.2 Inspection and testing procedures and types of inspection documents ... 5
8.3 Specific inspection and testing ... 6
8.4 Test methods ... 6
8.5 Retests ... 7

9 Marking ... **7**

Annex A (informative) **Guidelines for further treatment (including heat treatment) in fabrication** ... **29**

Annex B (informative) **Designations of the steels given in Table 2 and of comparable grades covered in ASTM, EN, JIS, and GB Standards** ... **34**

Annex C (informative) **Applicable dimensional standards** ... **37**

Bibliography ... **38**

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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.

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 documents 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).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 17, *Steel*, Subcommittee SC 4, *Heat treatable and alloy steels*.

This second edition cancels and replaces the first edition (ISO 16143-2:2004), which has been technically revised.

ISO 16143 consists of the following parts, under the general title *Stainless steels for general purposes*:

— *Part 1: Corrosion-resistant flat products*

— *Part 2: Corrosion-resistant semi-finished products, bars, rods and sections*

— *Part 3: Wire*

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Stainless steels for general purposes —

Part 2:
Corrosion-resistant semi-finished products, bars, rods and sections

1 Scope

This part of ISO 16143 specifies the technical delivery conditions for semi-finished products, hot formed bars, rods, and sections for general purposes made of the most important corrosion-resistant stainless steel grades.

NOTE 1 Throughout this part of ISO 16143, the term "general purposes" means purposes other than the special purposes mentioned in the Bibliography.

NOTE 2 Heat-resistant steel grades can be found in ISO 4955 and they can be used for corrosion-resistant purposes.

In addition to this part of ISO 16143, the general technical delivery requirements of ISO 404 are applicable.

This part of ISO 16143 does not apply to components manufactured by further processing the product forms listed in the first paragraph above with quality characteristics altered as a result of such further processing.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 148-1, *Metallic materials — Charpy pendulum impact test — Part 1: Test method*

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

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

ISO 3651-2, *Determination of resistance to intergranular corrosion of stainless steels — Part 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels — Corrosion test in media containing sulfuric acid*

ISO 6506-1, *Metallic materials — Brinell hardness test — Part 1: Test method*

ISO 6892-1:2009, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*

ISO 6892-2, *Metallic materials — Tensile testing — Part 2: Method of test at elevated temperature*

ISO 6929, *Steel products — Vocabulary*

ISO 9443, *Heat-treatable and alloy steels — Surface quality classes for hot-rolled round bars and wire rods — Technical delivery conditions*

ISO 10474, *Steel and steel products — Inspection documents*

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

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