

This is a preview of "ISO 16143-1:2014". [Click here to purchase the full version from the ANSI store.](#)

Second edition
2014-05-15

Stainless steels for general purposes —

Part 1: Corrosion-resistant flat products

Aciers inoxydables pour usage général —

Partie 1: Produits plats en acier résistant à la corrosion



Reference number
ISO 16143-1:2014(E)

© ISO 2014

This is a preview of "ISO 16143-1:2014". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

All rights reserved. Unless otherwise specified, 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
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 16143-1:2014". Click here to purchase the full version from the ANSI store.

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.....	4
7.8 Dimensions, tolerances on dimensions, and shape.....	4
7.9 Calculation of mass and tolerance of mass.....	5
8 Inspection, testing, and conformance of products	5
8.1 General.....	5
8.2 Inspection and testing procedures and types of inspection document.....	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	36
Annex B (informative) Designations of the steels given in Table 1 and of comparable grades covered in ASTM, EN, JIS, and GB standards	43
Annex C (informative) Comparison list of abbreviations for process route/surface finish of flat products given in Table 3 covered in ASTM and JIS standards	47
Annex D (informative) Applicable dimensional standards	49
Bibliography	50

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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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

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, *Steels*, Subcommittee SC 4, *Heat treatable and alloy steels*.

This second edition cancels and replaces the first edition (ISO 16143-1:2004), which has been technically revised.

- *Part 1: Corrosion-resistant flat products*
- *Part 2: Corrosion-resistant semi-finished products, bars, rods and sections*
- *Part 3: Wire*