
Steel and cast iron — Determination of silicon content — Gravimetric method

*Aciers et fontes — Détermination des teneurs en silicium — Méthode
gravimétrique*

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 439:2020

<https://standards.iteh.ai/catalog/standards/iso/392cad26-89b7-4724-ab7f-ca62e8de1664/iso-439-2020>



iTeh Standards
(<https://standards.itih.ai>)
Document Preview

ISO 439:2020

<https://standards.itih.ai/catalog/standards/iso/392cad26-89b7-4724-ab7f-ca62e8de1664/iso-439-2020>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Reagents	1
6 Apparatus	2
7 Sampling	2
8 Procedure	2
8.1 Test portion.....	2
8.2 Blank test.....	3
8.3 Determination	3
8.3.1 Acid dissolution of the test portion and formation of hydrated silicon dioxide	3
8.3.2 Filtration and washing.....	3
8.3.3 Recovery of silicon compounds in the filtrate	4
8.3.4 Ignition, volatilization of silicon dioxide and weighing.....	4
9 Expression of results	4
9.1 Method of calculation.....	4
9.2 Precision.....	5
10 Test report	5
Annex A (informative) Additional information on the international interlaboratory test	7
Annex B (informative) Graphical representation of precision data	10
Bibliography	11

ISO 439:2020

<https://standards.iteh.ai/catalog/standards/iso/392cad26-89b7-4724-ab7f-ca62e8de1664/iso-439-2020>