



FINAL DRAFT International Standard

ISO/FDIS 4940

Steel and cast iron — Determination of nickel content — Flame atomic absorption spectrometric method

*Aciers et fontes — Détermination de la teneur en nickel —
Méthode par spectrométrie d'absorption atomique dans la
flamme*

ISO/TC 17/SC 1

Secretariat: JISC

Voting begins on:
2025-05-09

Voting terminates on:
2025-07-04

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

ISO/FDIS 4940

<https://standards.iteh.ai/catalog/standards/iso/6962b40c-def4-49b4-9fd1-1fc4c22556ad/iso-fdis-4940>

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

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

ISO/FDIS 4940

<https://standards.itih.ai/catalog/standards/iso/6962b40c-def4-49b4-9fd1-1fc4c22556ad/iso-fdis-4940>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

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
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	2
6 Apparatus	3
7 Sampling and sample preparation	4
8 Procedure	4
8.1 General	4
8.2 Test portion	4
8.3 Blank test	4
8.4 Determination	4
8.4.1 Preparation of the test solution	4
8.4.2 Nickel contents higher than 0,10 %	5
8.4.3 Preparation of the calibration solutions	5
8.4.4 Adjustment of the atomic absorption spectrometer	6
8.4.5 Spectrometric measurements	6
8.5 Plotting the calibration curve	7
8.6 Use of bracketing method	7
9 Expression of results	7
9.1 Use of the calibration curve	7
9.2 Use of bracketing method	8
10 Test report	8
Annex A (informative) Precision	9
Annex B (informative) Procedures for the determination of instrumental criteria	11
Bibliography	13