



Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

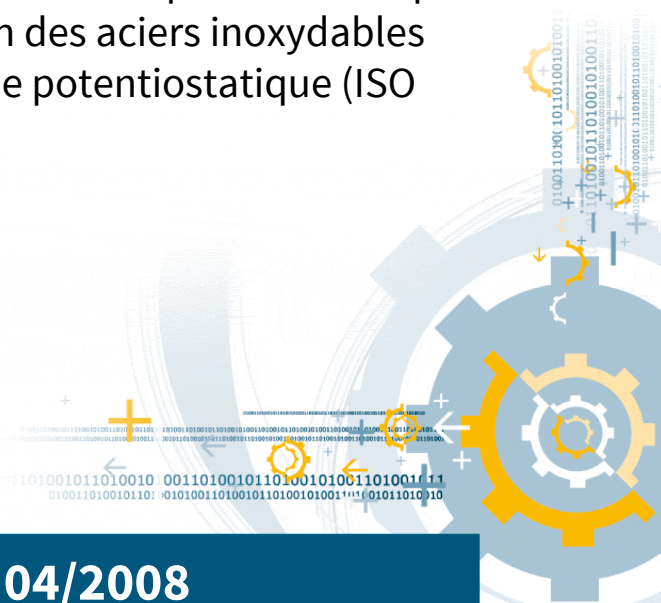
ILNAS-EN ISO 17864:2008

Corrosion of metals and alloys - Determination of the critical pitting temperature under potentiostatic control (ISO 17864:2005)

Korrosion von Metallen und Legierungen
- Bestimmung der kritischen
Lochkorrosionstemperatur bei
potentiostatischer Kontrolle (ISO

Corrosion des métaux et alliages -
Determination de la température critique
de piqûration des aciers inoxydables
sous contrôle potentiostatique (ISO

04/2008



National Foreword

This European Standard EN ISO 17864:2008 was adopted as Luxembourgish Standard ILNAS-EN ISO 17864:2008.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

<https://portail-qualite.public.lu/fr/normes-normalisation/participer-normalisation.html>

THIS PUBLICATION IS COPYRIGHT PROTECTED

Nothing from this publication may be reproduced or utilized in any form or by any mean - electronic, mechanical, photocopying or any other data carries without prior permission!

EUROPEAN STANDARD ILNAS-EN ISO 17864:2008 **EN ISO 17864**
NORME EUROPÉENNE
EUROPÄISCHE NORM

April 2008

ICS 77.060

English Version

**Corrosion of metals and alloys - Determination of the critical
pitting temperature under potentiostatic control (ISO
17864:2005)**

Corrosion des métaux et alliages - Détermination de la
température critique de piqûration des aciers inoxydables
sous contrôle potentiostatique (ISO 17864:2005)

Korrosion von Metallen und Legierungen - Bestimmung der
kritischen Lochkorrosionstemperatur bei potentiostatischer
Kontrolle (ISO 17864:2005)

This European Standard was approved by CEN on 21 March 2008.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents	Page
Foreword.....	3

ILNAS-EN ISO 17864:2008 - Preview only Copy via ILNAS e-Shop

Foreword

The text of ISO 17864:2005 has been prepared by Technical Committee ISO/TC 156 “Corrosion of metals and alloys” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 17864:2008 by Technical Committee CEN/TC 262 “Metallic and other inorganic coatings” the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 17864:2005 has been approved by CEN as a EN ISO 17864:2008 without any modification.

**Corrosion of metals and alloys —
Determination of the critical pitting
temperature under potentiostatic control**

*Corrosion des métaux et alliages — Détermination de la température
critique de piquûration des aciers inoxydables sous contrôle
potentiostatique*

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2005

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing 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

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Apparatus	2
6 Specimens	3
7 Calibration of specimen temperature vs. solution temperature	4
8 Procedure	4
9 Assessment of results	5
10 Test report	6
Annex A (informative) Guidelines for selecting the test parameters	7
Annex B (informative) Method of preventing a crevice attack	9
Annex C (informative) Potential difference of selected reference electrodes at 25 °C with respect to the standard hydrogen electrode (SHE)	13