INTERNATIONAL STANDARD

ISO 22426

First edition 2020-02

Assessment of the effectiveness of cathodic protection based on coupon measurements

Evaluation de l'efficacité de la protection cathodique par mesurages sur coupon





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

Foreword		Page
		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Assessment of CP effectiveness	
5	Application principles 5.1 IR-free potential measurements 5.2 DC and AC currents and current densities 5.3 Spread resistance 5.4 Corrosion rate measurements	4 4 4
6	Design considerations 6.1 General 6.2 Geometry of the defect 6.3 Dimension of the coupon base plate 6.4 Surface area of the coupon 6.5 Other types of coupon geometries	5 6 7
7	Monitoring purpose — Selection of installation sites 7.1 General 7.2 Detailed and comprehensive assessment of CP effectiveness 7.3 Assessment of CP effectiveness under DC interference conditions 7.4 Assessment of CP effectiveness under AC interference conditions	7
8	Installation procedures	9
9	Commissioning of coupons 9.1 Preliminary checking 9.2 Start up 9.3 Measurement of the settled parameters 9.4 Installation and commissioning documents 9.5 Frequency of coupon measurement	10 10 11
Anne	ex A (informative) Special types and procedures of coupons and probes	12
	ex B (informative) Assessment of the effectiveness of CP under any conditions including DC and/or AC interferences	15
Anno	ex C (informative) Examples of instant-off and current density measurements on coupons — Remote monitoring and remote control	17
Rihli	ingranhy	22