

DIN EN ISO 15156-3:2010-12 (E)

Petroleum and natural gas industries - Materials for use in H₂S-containing environments in oil and gas production - Part 3: Cracking-resistant CRAs (corrosion-resistant alloys) and other alloys (ISO 15156-3:2009)

Contents

	Page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	6
3 Terms and definitions	7
4 Symbols and abbreviated terms	9
5 Factors affecting the cracking resistance of CRAs and other alloys in H ₂ S-containing environments	9
6 Qualification and selection of CRAs and other alloys with respect to SSC, SCC and GHSC in H ₂ S-containing environments	10
6.1 General	10
6.2 Evaluation of materials properties	10
6.3 PREN	12
7 Purchasing information and marking	13
7.1 Information that should be supplied for material purchasing	13
7.2 Marking, labelling and documentation	13
Annex A (normative) Environmental cracking-resistant CRAs and other alloys (including Table A.1 -- Guidance on the use of the materials selection tables)	14
Annex B (normative) Qualification of CRAs for H ₂ S-service by laboratory testing	52
Annex C (informative) Information that should be supplied for material purchasing	62
Annex D (informative) Materials chemical compositions and other information	64
Annex E (informative) Nominated sets of test conditions	76
Bibliography	77