

ISO 16540:2015-10 (E)

Corrosion of metals and alloys - Methodology for determining the resistance of metals to stress corrosion cracking using the four-point bend method

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	1
5	Loading jig design	2
6	Specimen preparation	3
6.1	General	3
6.2	Parent material specimens	3
6.3	Welded specimens	4
6.4	Clad product specimens	5
7	Strain gauging	5
8	Loading	6
8.1	Strain level	6
8.2	Setting the total strain value	6
8.3	Testing at elevated temperature	8
9	Test environment	8
9.1	General	8
10	Procedure for four-point bend testing	9
11	Failure appraisal	10
11.1	Carbon steel	10
11.2	Corrosion resistant alloys	10
12	Test report	11
Annex A (informative) Surface preparation (see also ISO 7539-1)		12
Annex B (informative) Procedure for strain gauging and determining uniaxial stress-strain calibration curve		16
Bibliography		18