

DIN EN ISO 7539-6:2018-12 (E)

Corrosion of metals and alloys - Stress corrosion testing - Part 6: Preparation and use of precracked specimens for tests under constant load or constant displacement (ISO 7539-6:2018)

Contents		Page
European foreword		3
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	6
5	Specimens	9
5.1	General	9
5.2	Specimen design	11
5.3	Stress intensity factor considerations	21
5.4	Specimen preparation	27
5.5	Specimen identification	29
6	Initiation and propagation of fatigue cracks	30
7	Procedure	31
7.1	General	31
7.2	Environmental considerations	31
7.3	Environmental chamber	32
7.4	Environmental control and monitoring	33
7.5	Determination of K_{ISCC} by crack arrest	33
7.6	Determination of K_{ISCC} by crack initiation	36
7.7	Measurement of crack velocity	38
8	Test report	39
Annex A (informative) Use of notched specimens for stress corrosion tests		40
Annex B (informative) Determination of crack growth velocity		43
Bibliography		44