

ISO 16573-1:2020 (E)

Steel — Measurement method for the evaluation of hydrogen embrittlement resistance of high strength steels — Part 1: Constant load test

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Specimen preparation
6	Hydrogen charging methods
6.1	General
6.2	Cathodic charge method
6.2.1	Hydrogen charging solution
6.2.2	Hydrogen charging conditions
6.3	Hydrogen absorption in aqueous solution at free corrosion potential
6.4	Hydrogen absorption in atmospheric corrosion environments
6.5	Hydrogen absorption in high pressure hydrogen gas
7	Preparation of electroplating solution and electroplating condition
7.1	General
7.2	Electroplating solution
7.3	Electroplating conditions
8	Constant loading test
8.1	Constant loading test procedures
8.2	Presentation of the results
9	Post-test specimen treatment
10	Hydrogen thermal desorption analysis
10.1	General
10.2	Experimental apparatus (gas chromatograph)
10.3	Experimental apparatus (mass spectrometry)
11	Test report

Page count: 11