

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms, definitions and symbols
4	General provisions concerning test pieces
5	Tensile test
5.1	Test piece
5.2	Test equipment
5.3	Test procedure
5.3.1	General
5.3.2	Determination of the modulus of elasticity
6	Bend test
6.1	Test piece
6.2	Test equipment
6.3	Test procedure
6.4	Interpretation of test results
7	Reverse bend test
7.1	Test piece
7.2	Test equipment
7.3	Test procedure
8	Wrapping test
8.1	Test piece
8.2	Test equipment
8.3	Test procedure
9	Isothermal stress relaxation test
9.1	Principle of test
9.2	Test piece
9.3	Test equipment
9.3.1	Frame
9.3.2	Force-measuring device
9.3.3	Length-measuring device (extensometer)
9.3.4	Anchoring device
9.3.5	Loading device
9.4	Test procedure
9.4.1	Provisions concerning the test piece
9.4.2	Application of force
9.4.3	Initial force
9.4.4	Force during the test
9.4.5	Maintenance of strain
9.4.6	Temperature
9.4.7	Frequency of force recording
9.4.8	Frequency of strain recording

9.4.9	Duration of the test
10	Axial force fatigue test
10.1	Principle of test
10.2	Test piece
10.3	Test equipment
10.4	Test procedure
10.4.1	Provisions concerning the test piece
10.4.2	Stability of force and frequency
10.4.3	Counting of force cycles
10.4.4	Frequency
10.4.5	Temperature
10.4.6	Validity of the test
11	Stress corrosion test in a solution of thiocyanate
11.1	Principle of test
11.2	Sample and test piece
11.3	Test equipment
11.3.1	Frame
11.3.2	Force-measuring device
11.3.3	Time-measuring device
11.3.4	Test cell containing the test solution
11.3.5	Test solution
11.4	Test procedure
11.4.1	Provisions concerning the test pieces
11.4.2	Application and maintenance of force
11.4.3	Filling of the test cell
11.4.4	Temperature during the test
11.4.5	Termination of the test
11.4.6	Determination of median lifetime to fracture
12	Deflected tensile test
12.1	Principle of test
12.2	Sample and test pieces
12.3	Test equipment
12.3.1	General description
12.3.2	Dimensions
12.3.3	Anchorage
12.3.4	Mandrel
12.3.5	Loading device
12.4	Test procedure
13	Chemical analysis
14	Measurement of the geometrical characteristics
14.1	Test piece
14.2	Test equipment
14.3	Test procedures
14.3.1	Rib measurements
14.3.1.1	Height at the highest point (a_{max})
14.3.1.2	Rib height at a given position
14.3.1.3	Rib spacing (c)
14.3.1.4	Part of the circumference without ribs ($\sum e_i$)
14.3.1.5	Rib inclination angle (β)
14.3.1.6	Width of transverse rib (b)
14.3.2	Indentation measurements
14.3.2.1	General
14.3.2.2	Depth at the deepest point (a_{max})
14.3.2.3	Indentation spacing (c)
14.3.2.4	Length of indentation (l)
14.3.2.5	Part of the circumference without indentations ($\sum e_i$)
14.3.2.6	Indentation angle (β)
14.3.3	Lay length of strand (P)
14.3.4	Straightness

- 15 **Determination of the relative rib area (fR)**
 - 15.1 **General**
 - 15.2 **Calculation of fR**
 - 15.2.1 **Relative rib area**
 - 15.2.2 **Simplified formulae**
 - 15.2.3 **Formula used for the calculation of fR**
- 16 **Determination of deviation from nominal mass per metre**
 - 16.1 **Test piece**
 - 16.2 **Accuracy of measurement**
 - 16.3 **Test procedure**
- 17 **Test report**
- Annex A (informative) Options for agreement between the parties involved**

Page count: 29