

ISO/TS 17920:2015-08 (E)

Fibre ropes for offshore stationkeeping - Aramid

Contents		Page
Foreword		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Materials	2
4.1	Rope core material	2
4.2	Rope cover material	2
4.3	Other materials	2
5	Requirements -- Rope properties	2
5.1	Minimum breaking strength	2
5.2	Minimum core tenacity	3
5.3	Axial compression fatigue properties	3
5.4	Particle ingress protection	3
5.5	Cyclic loading performance	3
6	Requirements -- Rope layout and construction	3
6.1	General	3
6.2	Type of construction	3
6.3	Rope core	3
6.4	Protective cover	4
6.5	Terminations	4
6.6	Length of rope	4
7	Rope testing	5
7.1	Type testing	5
7.1.1	General	5
7.1.2	Sampling	5
7.1.3	Breaking strength, core tenacity and stiffness tests	5
7.1.4	Axial compression fatigue properties test	6
7.1.5	Torque properties tests	6
7.1.6	Linear density test	6
7.1.7	Cyclic loading (endurance) test	6
7.1.8	Protective cover thickness	6
7.1.9	Particle ingress protection	6
7.2	Testing of current production	6
7.2.1	Sampling and testing	6
7.2.2	Length measurement	7
8	Report	7
8.1	Prototype rope	7
8.2	Current production	7
9	Certification	7
10	Marking, labelling, and packaging	8
10.1	Marking	8
10.2	Labelling	8

10.3	Packaging	8
	Annex A (normative) Fibre qualification and testing	9
	Annex B (normative) Rope testing	12
	Annex C (normative) Axial compression fatigue properties test	21
	Annex D (informative) Guidance for rope handling care	23
	Annex E (informative) Certificate of conformity -- Aramid ropes for offshore station keeping	34
	Annex F (informative) Commentary	35
	Bibliography	41