

ISO 3444:2023-04 (E)

Stainless-steel wire ropes

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Ordering information	2
5	Requirements	2
5.1	Materials	2
5.1.1	Stainless steel	2
5.1.2	Wire	2
5.1.3	Core	3
5.2	Rope manufacture	3
5.2.1	General	3
5.2.2	Wire joints	3
5.2.3	Lubrication	4
5.2.4	Rope construction	4
5.3	Designation and classification	4
5.3.1	Designation	4
5.3.2	Classification	5
5.4	Dimensions	5
5.4.1	Diameter	5
5.4.2	Out-of-roundness	5
5.4.3	Rope length	5
5.4.4	Lay length	6
5.5	Mechanical properties	6
5.5.1	Breaking force	6
5.5.2	Elongation	6
5.5.3	Bend fatigue property	6
5.6	Other requirements	6
6	Inspection	7
6.1	General	7
6.2	Test methods	7
6.2.1	Chemical composition test	7
6.2.2	Wrapping test of wire	7
6.2.3	Test on rope for diameter	7
6.2.4	Inspection of internal stresses	8
6.2.5	Straightness inspection	8
6.2.6	Tensile test	8
6.2.7	Bend fatigue test	8
6.2.8	Inspection of surface quality	9
6.3	Sampling and acceptance criteria	9
7	Delivery conditions	9
7.1	General	9
7.2	Certificate	9
7.3	Packaging and marking	10
7.3.1	Packaging	10

7.3.2	Marking	10
	Annex A (informative) Construction examples of stainless-steel wire ropes	11
	Annex B (normative) Minimum breaking forces for the ropes	13
	Bibliography	18