

ISO 4641:2016-12 (E)

Rubber hoses and hose assemblies for water suction and discharge - Specification

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Classification	2
5	Coupling and fittings	2
6	Materials and construction	2
6.1	Lining	2
6.2	Reinforcement	2
6.3	Cover	2
7	Dimensions and tolerances	2
7.1	Bore (inside diameter)	2
7.2	Enlarged ends	2
7.3	Unit lengths	3
7.4	Lining	3
7.5	Cover	3
8	Physical properties	3
8.1	Rubber compounds	3
8.1.1	Rubber compounds	3
8.1.2	Tensile strength and elongation at break of rubber lining and cover	3
8.1.3	Resistance to aging	3
8.2	Performance requirements for hoses and hose assemblies	4
8.2.1	Hydrostatic-pressure requirements (proof pressure test)	4
8.2.2	Burst test	4
8.2.3	Resistance to bending (minimum bend radius as a function of nominal size)	4
8.2.4	Resistance to suction flattening	5
8.2.5	Low-temperature flexibility	5
8.2.6	Adhesion	5
8.2.7	Ozone resistance of the cover	5
9	Frequency of testing	6
10	Marking	6
10.1	Hoses	6
10.2	Hose assemblies	6
11	Test report/certificate	6
12	Packaging and storage	7
Annex A (normative)	Type tests and routine tests	8
Annex B (informative)	Production tests	9

Annex C (informative)Couplingsandendfittings	10
Bibliography	11