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 Termsanddefinitions 1

4 Classification 2

5 Couplingandfittings 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 Testreport/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