DIN EN ISO 4641:2024-07 (E)

Rubber hoses and hose assemblies for water suction and discharge - Specification (ISO 4641:2024)

Contents

Page

European Foreword ... 3
Foreword ... 4
1 Scope ... 5
2 Normative references ... 5
3 Terms and definitions ... 5
4 Classification ... 6
5 Coupling and fittings ... 6
6 Materials and construction ... 6
6.1 Lining ... 6
6.2 Reinforcement ... 6
6.3 Cover ... 6
7 Dimensions and tolerances ... 6
7.1 Inside diameter ... 6
7.2 Enlarged ends ... 6
7.3 Unit lengths ... 7
7.4 Lining ... 7
7.5 Cover ... 7
8 Physical properties ... 7
8.1 Rubber compounds ... 7
8.2 Performance requirements for hoses and hose assemblies ... 7
8.2.1 Hydrostatic-pressure requirements (proof pressure test) ... 7
8.2.2 Burst test ... 8
8.2.3 Resistance to bending (minimum bend radius as a function of nominal size) ... 8
8.2.4 Resistance to suction flattening ... 8
8.2.5 Low-temperature flexibility ... 9
8.2.6 Adhesion ... 9
8.2.7 Ozone resistance of the cover ... 9
9 Frequency of testing ... 9
10 Marking ... 10
10.1 Hoses ... 10
10.2 Hose assemblies ... 10
11 Test report/certificate ... 10
12 Packaging and storage ... 10
Annex A (normative) **Type tests and routine tests** ... 11
Annex B (informative) **Production acceptance tests** ... 12
Annex C (informative) **Couplings and end fittings** ... 13
Bibliography ... 14