

ISO 18752:2022-03 (E)

Rubber hoses and hose assemblies - Wire- or textile-reinforced single-pressure types for hydraulic applications - Specification

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Classification	2
4.1	Classes	2
4.2	Grades and types	2
5	Materials and construction	3
5.1	Hoses	3
5.2	Hose assemblies	3
6	Dimensions and tolerances	4
6.1	Diameters	4
6.2	Cover thickness	6
6.3	Concentricity	6
6.4	Length	6
7	Physical properties	7
7.1	Fluid resistance of rubber compounds	7
7.1.1	Test pieces	7
7.1.2	Oil resistance	7
7.1.3	Water-based fluid resistance	7
7.1.4	Water resistance	7
7.2	Performance requirements	7
7.2.1	Hydrostatic requirements	7
7.2.2	Change in length	8
7.2.3	Minimum bend radius	8
7.2.4	Resistance to impulse	10
7.2.5	Leakage of hose assemblies	10
7.2.6	Cold flexibility	10
7.2.7	Adhesion between components	10
7.2.8	Vacuum resistance	10
7.2.9	Ozone resistance	11
7.2.10	Abrasion resistance	11
8	Frequency of testing	11
9	Marking	11
9.1	Hoses	11
9.2	Hose assemblies	11
10	Recommendations for packaging and storage	11
11	Information by hose manufacturer	12
12	Test report	12

Annex A (normative) Type tests and routine tests	13
Annex B (informative) Production tests	14
Annex C (informative) Information to be provided by hose manufacturer	15
Bibliography	16