

ISO 23297:2017-11 (E)

Thermoplastic hoses and hose assemblies - Wire or synthetic yarn reinforced single-pressure types for hydraulic applications - Specification

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Classification	2
4.1	Classes	2
4.2	Types	2
4.3	Grades	2
5	Materials and construction	3
5.1	Hoses	3
5.2	Hose assemblies	3
6	Dimensions and tolerances	3
6.1	Diameters	3
6.2	Lengths of supplied hoses and hose assemblies	4
6.3	Outer cover thickness	4
6.4	Concentricity	4
7	Physical properties	5
7.1	Fluid and UV resistance of thermoplastic compounds	5
7.1.1	Fluid resistance	5
7.1.2	UV resistance	5
7.2	Performance requirements	5
7.2.1	Hydrostatic requirements	5
7.2.2	Change in length	6
7.2.3	Minimum bend radius	6
7.2.4	Resistance to impulse	6
7.2.5	Leakage of hose assemblies	7
7.2.6	Cold flexibility	7
7.2.7	Adhesion between components (applicable to type 1 hoses only)	7
7.2.8	Vacuum resistance	7
7.2.9	Ozone resistance	8
8	Frequency of testing	8
9	Marking	8
9.1	Hoses	8
9.2	Hose assemblies	8
10	Packaging and storage	9
11	Test report	9
Annex A (normative)	Type tests and routine tests	10

Annex B (informative) Production acceptance tests	11
Annex C (informative) Recommendations for lengths of supplied hoses and hose assemblies	12
Bibliography	13