ISO 11237:2017-09 (E)

Rubber hoses and hose assemblies - Compact wire-braid-reinforced hydraulic types for oil-based or water-based fluids - Specification

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Classification 2

5 Materials and construction 2
5.1 Hoses 2
5.2 Hose assemblies 2

6 Dimensions 2
6.1 Hose diameters and cover thickness 2
6.2 Concentricity 3
6.3 Hose cover thickness 3

7 Performance requirements 3
7.1 General 3
7.2 Change in length requirements 4
7.3 Hydrostatic requirements 4
7.4 Minimum bend radius 5
7.5 Resistance to impulse 5
7.5.1 Oil-based fluid impulse test 5
7.5.2 Water-based fluid impulse test 6
7.5.3 Optional impulse test 6
7.6 Leakage of hose assemblies 6
7.7 Cold flexibility 6
7.8 Adhesion between components 6
7.9 Vacuum resistance 7
7.10 Fluid resistance 7
7.10.1 General 7
7.10.2 Oil resistance 7
7.10.3 Water resistance 7
7.11 Ozone resistance 7
7.12 Visual examination 8

8 Marking 8
8.1 Hoses 8
8.2 Hose assemblies 8

9 Recommendations for length of supplied hoses and tolerances on lengths of hose assemblies 8

Annex A (normative) Type and routine testing of production hoses 9

Annex B (informative) Periodic testing of production hoses 10

Annex C (informative) Recommendations for lengths of supplied hoses and length tolerances for hose assemblies 11