

ISO 4642-1:2015-12 (E)

Rubber and plastics hoses, non-collapsible, for fire-fighting service - Part 1: Semi-rigid hoses for fixed systems

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Classification	2
4.1	General	2
4.2	Classification by types (hose construction)	2
4.3	Classification by class (materials for lining and cover)	2
5	Dimensions, tolerances and maximum mass	3
5.1	Inside diameter and maximum mass	3
5.2	Length and tolerances on length	3
6	Performance requirements of finished hose	3
6.1	Hydrostatic requirements	3
6.1.1	Deformation under maximum working pressure	3
6.1.2	Deformation under proof pressure	3
6.1.3	Minimum burst pressure	4
6.1.4	Kink pressure	4
6.2	Adhesion	4
6.3	Accelerated ageing	4
6.4	Low temperature flexibility	4
6.5	Hot surface resistance	4
6.6	Ozone resistance	4
6.7	Bending and crush resistance	5
6.8	UV resistance (xenon arc lamp)	5
6.9	Loss in mass on heating	5
7	Frequency of testing	5
8	Type tests	5
9	Test report	5
10	Recommendation for packaging and storage	5
11	Marking	5
Annex A (normative)	Kink pressure test	7
Annex B (normative)	Accelerated ageing test	8
Annex C (normative)	Hot surface resistance test	9
Annex D (normative)	Bending and crush resistance test	14

Annex E (normative) Type test and routine test	16
Annex F (informative) Production test	17
Bibliography	18