

ISO 16964:2019 (E)

Gas cylinders — Flexible hoses assemblies — Specification and testing

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Requirements
4.1	Production pressure tests
4.1.1	Strength test
4.1.2	Leak test
4.2	Type tests
4.2.1	General
4.2.2	Burst pressure test (3 samples per type)
4.2.3	Pressure cycle test (3 samples per type)
4.2.3.1	General
4.2.3.2	General requirement
4.2.3.3	Specific requirements for metallic hoses used in filling centres
4.2.4	Oxygen compatibility test (3 samples per type)
4.2.5	Acetylene compatibility test (3 samples)
4.2.6	Gas material compatibility
4.2.7	Test of the safety cable (2 samples)
4.2.7.1	General
4.2.7.2	Test 1
4.2.7.3	Test 2
4.2.8	Additional tests
4.2.8.1	General
4.2.8.2	Kink test (1 sample)
4.2.8.3	Side impact test (1 sample)
4.2.8.4	Tensile pull test (1 sample)
4.2.8.5	Fatigue cycling test under pressure (cyclic bending test)
4.2.8.6	Torsion test
4.2.8.7	Permeability test
5	Marking
Annex A	(informative) Examples of kink test, side impact test and torsion test
A.1	Kink test
A.1.1	Apparatus
A.1.2	Test pieces
A.1.3	Test
A.2	Side impact test
A.2.1	Apparatus
A.2.2	Test pieces
A.2.3	Test
A.3	Torsion test
A.3.1	Apparatus
A.3.2	Test pieces
A.3.3	Test