

ISO 16900-6:2021 (E)

Respiratory protective devices — Methods of test and test equipment — Part 6: Mechanical resistance/strength of components and connections

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Prerequisites
5	General test requirements
6	Test methods
6.1	General
6.2	Resistance of hoses to deformation, via compressive load
6.2.1	Principle
6.2.2	Apparatus
6.2.3	Procedure
6.2.4	Test report
6.3	Flexibility of medium pressure hoses, via bending
6.3.1	Principle
6.3.2	Apparatus
6.3.3	Procedure
6.3.4	Test report
6.4	Flexibility of high pressure hoses, via bending
6.4.1	Principle
6.4.2	Apparatus
6.4.3	Procedure
6.4.4	Test report
6.5	Coil kinking of hoses greater than 10 m in length
6.5.1	Principle
6.5.2	Apparatus
6.5.3	Procedure
6.5.4	Test report
6.6	Corner kinking for hoses greater than two metres and up to and including 10 m in length
6.6.1	Principle
6.6.2	Apparatus
6.6.3	Procedure
6.6.4	Test report
6.7	Exposure to impact from drop
6.7.1	Principle
6.7.2	Apparatus
6.7.3	Procedure
6.7.4	Test report
6.8	Mechanical stress
6.8.1	Principle
6.8.2	Sample and equipment
6.8.3	Procedure
6.8.4	Test report
6.9	Strength of visor

- 6.9.1 Principle
- 6.9.2 Apparatus
- 6.9.3 Procedure
- 6.9.4 Test report
- 6.10 Strength of connections
 - 6.10.1 Principle
 - 6.10.2 Sample and equipment
 - 6.10.3 Procedure for evaluating the strength of connections to a respiratory interface
 - 6.10.4 Procedures for testing the strength of breathable gas supply connections other than to the respiratory interface
 - 6.10.5 Procedures for testing the strength of high pressure hose connections
 - 6.10.6 Test report
- 6.11 Chemical resistance of materials
 - 6.11.1 Principle
 - 6.11.2 Sample and equipment
 - 6.11.3 Procedure for evaluating the strength of components after exposure to liquid chemicals
 - 6.11.4 Test report

Annex A (normative) Application of uncertainty of measurement — Determination of compliance

Page count: 32