

# ISO 16900-4:2011-09 (E)

## Respiratory protective devices - Methods of test and test equipment - Part 4: Determination of gas filter capacity and migration, desorption and carbon monoxide dynamic testing

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Prerequisites .....	2
5	General test requirements .....	2
6	Principles .....	3
6.1	Sorption tests .....	3
6.2	Migration and desorption tests .....	3
6.3	Carbon monoxide (CO) dynamic testing of type CO filter .....	3
7	Apparatus .....	3
7.1	Apparatus for constant flow .....	3
7.2	Challenge gas generator .....	3
7.3	Test chamber .....	4
7.4	Detector .....	4
7.5	Apparatus for dynamic flow .....	4
8	Methods .....	7
8.1	General .....	7
8.2	Test flow conditions .....	7
8.3	Gas capacity test .....	8
8.4	Gas filter validation test at specified flow rates .....	9
8.5	Migration test A and Migration test B .....	9
8.6	Desorption test .....	10
9	Test report .....	10
9.1	General .....	10
9.2	Gas capacity test .....	10
9.3	Gas filter validation test at specified flow rates .....	10
9.4	Migration test .....	10
9.5	Desorption test .....	10
9.6	CO dynamic test .....	10
10	Uncertainty of measurement .....	10
Annex A (normative) Application of uncertainty of measurement .....		11
Annex B (informative) Alternative method for the gas filter validation test at specified flow rates .....		13
Bibliography .....		16