

Performance Requirements Tested as Per Various Clauses of IS 9473:2002		
Vital Test	Requirement as per Standard	Karam Respirator
Particulate Filtering Efficiency (Clause 5.4.2 of IS 9473:2002)	Requirement as per Standard- 94%	Exceeds 97%
Breathing Resistance (Clause 5.11 of IS 9473:2002)	- Inhalation Flow- 30 l/min: Should be less than 0.7 mbar - Inhalation Flow- 95 l/min: Should be less than 2.4 mbar - Exhalation Flow- 160 l/min: Should be less than 3.0 mbar	0.4 mbar 1.6 mbar 2.1 mbar
Total Inward Leakage (Clause 5.4.1 of IS 9473:2002)	- The arithmetic mean of the total inward leakage of at least 8 out of 10 subjects should not be greater than 8% - The arithmetic mean of the total inward leakage of at least 46 subjects should not be greater than 11%	2.05% 6.31%
CO2 Content of Inhalation Air (Clause 5.7 of IS 9473:2002)	Carbon dioxide content of the inhalation air (dead space) should not exceed an average of 1% (by vol.)	< 0.6%
Flammability (Clause 5.6 of IS 9473:2002)	The face mask when subject to pass the flame once at the specified speed should not continue to burn after removal of flame	KARAM Respirator does not continue to burn after removal of flame
Bacterial Filtering Efficiency	Bacterial filtering efficiency should be >90%	> 99%