

| Performance Requirements Tested as Per Various Clauses Of IS 9473:2002 | | |
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| Vital Test | Requirement as per Standard | Karam Respirator |
| Particulate Filtering Efficiency (Clause 5.4.2 of IS 9473:2002 and EN 149:2001+A1:2009) | Requirement as per standard- 94% | Exceeds 97% |
| Breathing Resistance (Clause 5.11 of IS 9473:2002 and EN 149:2001+A1:2009) | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 0.3 mbar 1.5 mbar 1.8 mbar |
| Total Inward Leakage (Clause 5.4.1 of IS 9473:2002 and EN 149:2001+A1:2009) | <ul style="list-style-type: none"> 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% | <ul style="list-style-type: none"> 2.04% 6.31% |
| CO2 Content of Inhalation Air (Clause 5.7 of IS 9473:2002 and EN 149:2001+A1:2009) | 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 and EN 149:2001+A1:2009) | 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% |