§ 84.1147 Silica mist test for dust, fume, and mist respirators; minimum requirements.  
(a) Three non-powered respirators will be tested for a period of 312 minutes each at a continuous airflow rate of 32 liters per minute.
(b) The relative humidity in the test chamber will be 20–80 percent, and the room temperature approximately 25°C.
(c) The test suspension in the chamber will not be less than 15 nor more than 20 milligrams of freshly generated lead-oxide fume, calculated as lead (Pb), per cubic meter of air.
(d) The fume will be generated by impinging an oxygen-gas flame on molten lead.
(e) Samples of the test suspension will be taken during each test period for analysis.
(f) The total amount of unretained test suspension in the samples taken during testing shall not exceed 1.5 milligrams for a non-powered air-purifying respirator.
§ 84.1148 Silica dust test; non-powered single-use dust respirators; minimum requirements.  
(a) Three respirators will be tested.
(b) As described in §84.1144, airflow will be cycled through the respirator by a breathing machine at the rate of 24 respirations per minute with a minute volume of 40 liters; a breathing machine cam with a work rate of 622 kg.-m.2/minute shall be used.
(c) Air inhaled through the respirator will be 35°C ±2°C with 94 ±3 percent relative humidity. #
(d) Air inhaled through the respirator will be sampled and analyzed for respirator leakage.
(e) The total amount of unretained test suspension, after drying, in samples taken during testing, shall not exceed 1.8 milligrams for any single test.