(b) The room temperature in the test chamber will be approximately 25°C.
(c) The test suspension in the test chamber will not be less than 20 nor more than 25 milligrams of silica mist, weighed as silica dust, per cubic meter of air.
(d) Mist will be produced by spraying an aqueous suspension of flint (99+ percent free silica), and the flint shall be ground to pass 99+ percent through a 270-mesh sieve.
(e) Samples of the test suspension will be taken during each test period for analysis.
(f) The total amount of silica mist unretained in the samples taken during testing, weighed as silica dust, shall not exceed 2.5 milligrams for a non-powered air-purifying respirator.

§ 84.1148 Tests for respirators designed for respiratory protection against more than one type of dispersoid; minimum requirements.

Respirators designed as respiratory protection against more than one particulate hazard (dust, fume, or mist) shall comply with all the requirements of this part, with respect to each of the specific hazards involved.

§ 84.1149 Airflow resistance tests; all dust, fume, and mist respirators; minimum requirements.

(a) Resistance to airflow will be measured in the facepiece, mouthpiece, hood, or helmet of a dust, fume, or mist respirator mounted on a test fixture with air flowing at a continuous rate of 85 liters per minute, both before and after each test conducted in accordance with §§ 84.1144 through 84.1147.
(b) The maximum allowable resistance requirements for dust, fume, and mist respirators are as follows:

<table>
<thead>
<tr>
<th>Type of Respirator</th>
<th>Initial inhalation</th>
<th>Final inhalation</th>
<th>Exhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumoconiosis- and fibrosis-producing dusts, or dusts and mists</td>
<td>12</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Dust, fume, and mist, with single-use filter</td>
<td>30</td>
<td>50</td>
<td>20</td>
</tr>
<tr>
<td>Dust, fume, and mist, with reusable filter</td>
<td>20</td>
<td>40</td>
<td>20</td>
</tr>
<tr>
<td>Radon daughter</td>
<td>18</td>
<td>25</td>
<td>15</td>
</tr>
<tr>
<td>Asbestos dust and mist</td>
<td>18</td>
<td>25</td>
<td>15</td>
</tr>
</tbody>
</table>

* Measured after silica dust test described in §84.1144.

§ 84.1150 Exhalation valve leakage test; minimum requirements.

(a) Dry exhalation valves and valve seats will be subjected to a suction of 25 mm. water-column height while in a normal operating position.
(b) Leakage between the valve and valve seat shall not exceed 30 milliliters per minute.

§ 84.1151 DOP filter test; respirators designed as respiratory protection against dusts, fumes, and mists having an air contamination level less than 0.05 milligram per cubic meter and against radionuclides; minimum requirements.

(a) All single air-purifying respirator filter units will be tested in an atmosphere concentration of 100 micrograms of DOP per liter of air at continuous flow rates of 32 and 85 liters per minute for a period of 5 to 10 seconds.
(b) Where filters are to be used in pairs, the flow rates will be 16 and 42.5 liters per minute, respectively, through each filter.
(c) The filter will be mounted on a connector in the same manner as used on the respirator, and the total leakage for the connector and filter shall not exceed 0.03 percent of the ambient DOP concentration at either flow rate.

§ 84.1152 Silica dust loading test; respirators designed as protection against dusts, fumes, and mists having an air contamination level less than 0.05 milligram per cubic meter and against radionuclides; minimum requirements.

(a) Three non-powered respirators will be tested in accordance with the...