

## 105.12 - Respirable Materials

[SRMs 1878b and 1879b are crystalline silica materials with particle size in the respirable range. They are intended for use in determining, by x-ray diffraction, the levels of respirable silica in an industrial atmosphere according to National Institute for Occupational Safety and Health \(NIOSH\) Analytical Method 7500 or equivalent methods. NOTE: These SRMs are not certified for particle size.](#)

[Also see Table 105.10 Respirable Materials on Filter Media](#)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit of Issue	Measurand(s)
<a href="#">1648a</a>	Urban Particulate Matter	2 g	Certified: 25 elements, 21 PAHs, 7 PCBs Reference values: 8 elements, 54 PAHs, 16 nitro-PAHs, 46 PCBs, 34 pesticides
<a href="#">1649b</a>	Urban Dust	2 g	Certified: 3 elements, 23 PAHs, 13 PCBs, 4 pesticides Non-certified values: 5 elements, 1 PBDE, 38 PAHs, 16 nitro-PAHs, 49 PCBs, 34 pesticides
<a href="#">1650b</a>	Diesel Particulate Matter	200 mg	Certified: 26 PAHs, Reference values: 59 PAHs, 23 nitro-PAHs
<a href="#">1878b</a>	Respirable Alpha Quartz (Quantitative X-Ray Powder Diffraction Standard)	5 g	96.73 % alpha quartz
<a href="#">1879b</a>	Respirable Cristobalite (Quantitative X-Ray Powder Diffraction Standard)	5 g	93.98 % cristobalite
<a href="#">1975</a>	Diesel Particulate Extract	4 x 1.2 mL	Certified: 8 PAHs, Reference values: 23 PAHs, 19 nitro-PAHs, mutagenicity, residue mass
<a href="#">2583</a>	Trace Elements in Indoor Dust (Nominal Mass Fraction of 90 mg/kg Lead)	8 g	Certified: 5 elements
<a href="#">2584</a>	Trace Elements in Indoor Dust (Nominal Mass Fraction of 1 % Lead)	8 g	Certified: 5 elements Reference values: 10 elements
<a href="#">2585</a>	Organic Contaminants in House Dust	10 g	Certified: 33 PAHs, 30 PCBs, 4 pesticides, 15 PBDEs Reference values: 33 PAHs, 12 PCBs, 10 pesticides, 3 PBDEs 5 polycyclic musks, 8 PFAAs
<a href="#">2786</a>	Fine Atmospheric Particulate Matter (Mean Particle Diameter < 4 µm)	100 mg to 140 mg	Certified: 25 PAHs, 2 PBDE, 8 elements Reference values: 27 PAHs, 7 nitro-PAHs, 13 elements, 3 sugars, 5 PBDE, 12 dioxins, 15 furans
<a href="#">2787</a>	Fine Atmospheric Particulate Matter (Mean Particle Diameter < 10 µm)	100 mg to 140 mg	Certified: 23 PAHs, 2 PBDE, 7 elements Reference values: 27 PAHs, 7-nitro-PAHs, 5 PBDE, 14 elements, 3 sugars, 12 dioxins, 15 furans
<a href="#">2975</a>	Diesel Particulate Matter	1 g	Certified: 10 PAHs, Reference values: 36 PAHs, 16 nitro-PAHs, particle-size, total extractable mass
<a href="#">8044</a>	Common Commercial Asbestos: Chrysotile	2.6 g	<i>Refractive Index values, Parallel and Perpendicular</i>

- Certified values are normal font

- Non-certified or reference values are italicized

- Non-certified values in parentheses are for information only