105.13 - Lead in Paint, Dust, and Soil (powder and sheet forms)

These SRMs and RM have been developed in conjunction with the U.S. EPA to monitor paint, soil, and dust sources of lead. SRMs 2570 through 2576 consist of one Mylar™ sheet per unit. Each sheet, 7.6 cm × 10.2 cm, is coated with a single uniform paint layer for use with portable x-ray fluorescence analyzers. SRMs 2580, 2581, 2582, and 2589 consist of paint that has been ground and homogenized into a powder, 99+% of which passes a 100 µm sieve. SRM 2583 and SRM 2584 consist of dust, 99+% of which passes a 100 µm sieve, that was collected in vacuum cleaner bags during cleaning of dwelling interiors. SRM 2583 and SRM 2584 are certified for arsenic, chromium, cadmium, lead, and mercury. [Also see Category 106.] SRMs 2584, 2586, and 2587 are dust or soil matrices containing lead from paint.

For organic contaminants in indoor dust see SRM 2585. See Table 109.1

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	1648a	2569	2570	2571	2572	2573	2574	2575	2576	2579a	2580	2581	2582	2583	2584	2586	2587
Description	**Urban Particulate Matter**	**Lead Paint Films for Children's Products**	**Lead Paint Film for Building Surfaces (Blank) (Color: White)**	**Lead Paint Film for Building Surfaces (Nominal PB 3.5 mg/cm2 (Color: Yellow)**	**Lead Paint Film for Building Surfaces (Nominal Pb 1.6 mg/cm2) (Color: Orange)**	**Lead Paint Film for Building Surfaces (Nominal Pb 1.0 mg/cm2) (Color: Red)**	**Lead Paint Film for Building Surfaces (Nominal Pb 0.7 mg/cm2) (Color: Gold)**	**Lead Paint Film for Building Surfaces (Nominal Pb 0.3 mg/cm2) (Color: Green)**	**Lead Paint Film for Building Surfaces (Nominal Pb 5.6 mg/cm2) (Color: Blue)**	**Lead Paint Films For Building Surfaces (SRM 2570 through SRM 2575)**	**Powdered Paint (Nominal Mass Fraction of 4 % Lead)**	**Powdered Paint (Nominal Mass Fraction of 0.5 % Lead)**	**Powdered Paint (Nominal Mass Fraction of 200 mg/kg Lead)**	**Trace Elements in Indoor Dust (Nominal Mass Fraction of 90 mg/kg Lead)**	**Trace Elements in Indoor Dust (Nominal Mass Fraction of 1 % Lead)**	**Trace Elements in Soil Containing Lead From Paint (Nominal Mass Fraction of 500 mg/kg Lead)**	**Trace Elements in Soil Containing Lead from Paint (Nominal Mass Fraction of 3000 mg/kg Lead)**
Unit Size	**(2 g)**	**(8 sheets)**	**(1 film)**	**(1 +blank)**	**(1 +blank)**	**(1 +blank)**	**(1 +blank)**	**(1 +blank)**	**(1 +blank)**	**(set (6))**	**(30 g)**	**(35 g)**	**(20 g)**	**(8 g)**	**(8 g)**	**(55 g)**	**(55 g)**
Lead Concentration and Other Elements	0.655 % Pb, 25 elements certified, *8 reference values*	3 levels Pb (mg/kg):<0.2, 85.0, 314.4 *3 reference values* for density of paint	<0.001 mg/cm2 Pb	3.58 mg/cm2 Pb	1.527 mg/cm2 Pb	1.040 mg/cm2 Pb	0.714 mg/cm2 Pb	0.307 mg/cm2 Pb	5.59 mg/cm2 Pb	0.307 mg/cm2 to 03.58 mg/cm 2 5 levels plus blank	4.34 % Pb	0.449 % Pb	208.8 mg/kg Pb	85.9 mg/kg Pb, 5 elements certified	9761 mg/kg Pb, 5 elements certified, *10 reference values*	432 mg/kg Pb, 4 elements certified, *25 reference values*	3242 mg/kg Pb, 4 elements certified, *14 reference values*

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only

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For organic contaminants in indoor dust see SRM 2585. See Table 109.1

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2589	2783
Powdered Paint (Nominal Mass Fraction of 10 % Lead)	**Air Particulate on Filter Media**
(35 g)	**(2 +2 Blnk (47 mm dia))**
9.99 % Pb	317 ng/filter Pb, 18 elements certified *9 reference values*

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