

301.1 - Particle Size (powder and solid forms)

These SRMs are intended for evaluating and calibrating specific types of particle size measuring instruments, including light scattering, electrical zone flow-through counters, optical and scanning electron microscopes, sedimentation systems, and wire cloth sieving devices.

SRMs 1003c, 1004b, 1017b, 1018b and 1019b each consist of soda-lime glass beads covering a particular size distribution (PSD) range. RM 8010 is a three bottle set of different sands (A, C and D), intended for use in sieving only, and covers the sieve size range from 30 mesh to 325 mesh.

SRM 659 consists of equiaxed silicon nitride particles measured using sedimentation. SRM 1978 consists of granular, irregular shaped zirconium oxide particles measured using sedimentation. SRM 1982 consists of spheroidal particles measured using scanning electron microscopy, laser scattering, and sieving.

SRM 1961 is monodisperse latex particles in a water suspension produced by the National Aeronautics and Space Administration (NASA).

RMs 8011, 8012 and 8013 are gold nanoparticles in water.

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 Size	Particle Diameter Distribution
659	Particle Size Distribution Standard for Sedigraph Calibration	set (5)	0.2 to 10 µm
1003c	Glass Beads - Particle Size Distribution	28 g	20 to 45 µm (635 to 325 mesh)
1017b	Glass Beads - Particle Size Distribution (100 µm to 400 µm diameter range)	70 g	100 to 400 µm (140 to 45 mesh)
1018b	Glass (Particle Size)	87 g	220 to 750 µm (60 to 25 mesh)
1019b	Glass (Particle Size)	200 g	750 to 2450 µm (20 to 10 mesh)
1021	Glass (Particle Size)	4 g	2 to 12 µm
1690	Polystyrene Spheres (Nominal Diameter 1 µm)	5 mL	0.895 µm
1691	Polystyrene Spheres (Nominal Diameter 0.3 µm)	5 mL	0.269 µm
1961	Polystyrene Spheres 30 µm Diameter Polystyrene Spheres	5 mL	29.64 µm
1963a	Polystyrene Spheres (Nominal Diameter 100 nm)	5 mL	0.1018 µm
1964	Polystyrene Spheres (Nominal Diameter 60 nm)	5 mL	0.06039 µm
1978	Particles Size Distribution Standard for Gravity Sedimentation	5 g	0.33 to 2.19 µm
1982	Thermal Spray Powder – Particle Size Distribution Ytria-Stabilized Zirconia (Spheroidal)	10 g	10 to 150 µm
1984	Thermal Spray Powder - Particle Size Distribution Tungsten Carbide/Cobalt (Acicular)	14 g	9 to 30 µm
1985	Thermal Spray Powder - Particle Size Distribution Tungsten Carbide/Cobalt (Spheroidal)	14 g	18 to 55 µm
8010	Sand for Sand Sieve Analysis	3 x 130 g	<i>A (30 to 100 mesh)</i> <i>C (70 to 200 mesh)</i> <i>D (100 to 325 mesh)</i>
8011	Gold Nanoparticles (Nominal 10 nm Diameter)	2 x 5 mL	<i>10 nm</i>
8012	Gold Nanoparticles, Nominal 30 nm Diameter	2 x 5 mL	<i>30 nm</i>
8013	Gold Nanoparticles, Nominal 60 nm Diameter	2 x 5 mL	<i>60 nm</i>
8634	Ethylene Tetrafluoroethylene for Particle Size Distribution and Morphology	20 mL	highly polydisperse, irregular morphology

- Certified values are normal font
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SRM	Description	Unit of Issue	Particle Diameter Distribution
8988	Titanium Dioxide Powder - Particle Size Distribution	6 g	<i>0.1 to 0.5 μm</i>

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