

Powder MicroStandard™



meet the highest international metrological standards

provide accurate and traceable size calibration for particle size analysis

available in a wide size range from 3 µm to 220 µm

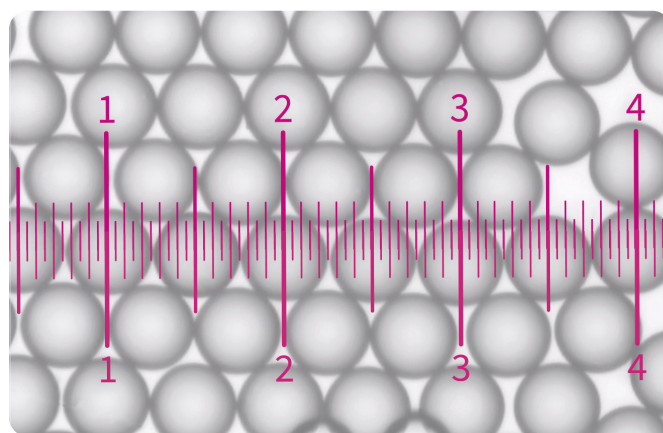
long shelf life at room temperature

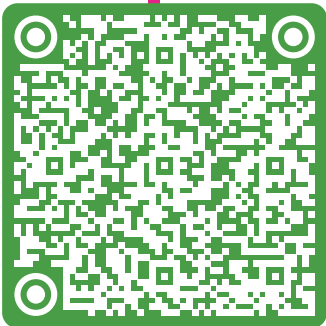
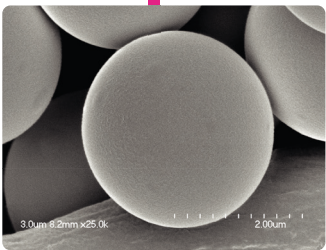
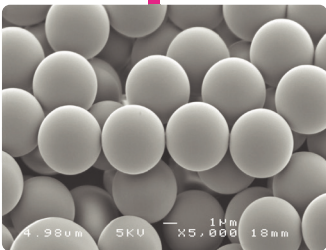


Particle size standards, traceable to the International System of Units (SI)

Applied Microspheres Powder MicroStandard™ is designed for particle sizing and counting instruments that can only be calibrated using dry particles. They are available in the 3 to 220 µm range. Powder MicroStandard™ particles are composed of cross-linked polystyrene and have a density of 1,05 g/cm³. The refractive index is 1,59 @ 589 nm. They are less suitable for redispersion in aqueous media.

The certified mean diameter is traceable to the International System of Units (SI) and to NIST. Traceability is obtained through particle size standards certified by ISO 17025 accredited metrology institutes and NIST Standard Reference Materials. Powder MicroStandard™ show a calibration uncertainty < 2,5 %. This satisfies the ISO 21501-4 regulation, the international standard for an improved validation of the repeatability and reproducibility of air-particle counting instruments.





PIN	Nominal Diam.	Quantity	Approx number / g
81030-01	3 µm	1 g	6,7 x 10 ¹⁰
81040-01	4 µm	1 g	2,8 x 10 ¹⁰
81050-01	5 µm	1 g	1,4 x 10 ¹⁰
81060-01	6 µm	1 g	8,4 x 10 ⁹
81100-01	10 µm	1 g	1,8 x 10 ⁹
81140-01	14 µm	1 g	6,6 x 10 ⁸
81150-01	15 µm	1 g	5,3 x 10 ⁸
81200-01	20 µm	1 g	2,3 x 10 ⁸
81250-01	25 µm	1 g	1,2 x 10 ⁸
81400-01	40 µm	1 g	2,8 x 10 ⁷
81800-01	80 µm	1 g	3,5 x 10 ⁶
82010-01	100 µm	1 g	1,8 x 10 ⁶
82014-01	140 µm	1 g	6,6 x 10 ⁵
82022-01	220 µm	1 g	1,7 x 10 ⁵