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**B E A D S • A B O V E T H E R E S T™**

Description

Accurate particle size and distribution analysis is critical to particle-based technologies in industry and research. The particle sizing instruments used to support research, manufacturing, and QC efforts in these sectors must be rigorously calibrated and validated to ensure the integrity of results.

Particle size standards may be used to validate sizing instruments across their dynamic ranges. They are suitable for use in the performance of routine instrument calibration checks and corrections, and in the support of practice standards, such as those published by ISO, ASTM International, CEN, and other organizations. Additionally, the use of reference material permits the standardization of results between runs, instruments and laboratories, and over time.

Our NIST-Traceable Size Standards are monodisperse polystyrene spheres available in diameters ranging from 40nm to 175µm. Suspensions are conveniently packaged in dropper bottles at 1% solids, and each bottle is provided with a Certificate of Calibration and Traceability. The mean diameter is certified and traceable to NIST Standard Reference Materials, and further lot specific data are provided for informational purposes. Standards are supplied in de-ionized water with a trace amount of a proprietary surfactant and sodium azide.

Characteristics

Composition Polystyrene
Refractive Index (589nm): 1.59*
Density (g/cm³): 1.05*

* Values are as reported in the literature for bulk polymer.

Storage and Stability

Store at 2-8°C. Do not freeze. Stable for 12 months from date of purchase, provided the product is handled in accordance with the manufacturer's recommendations.

Safety

This particle suspension contains sodium azide. Sodium azide may react with lead and copper plumbing to form explosive metal azides. Upon disposal of material, flush with a large volume of water to prevent azide accumulation. Please consult the Material Safety Data Sheet for more information.

This product is for research use only and is not intended for use in humans or for *in vitro* diagnostic use.

Ordering Information

Catalog Code	Description	Size
NT02N	NIST Traceable Particle Size Standard, 40nm	15mL
NT03N	NIST Traceable Particle Size Standard, 60nm	15mL
NT04N	NIST Traceable Particle Size Standard, 80nm	15mL
NT05N	NIST Traceable Particle Size Standard, 100nm	15mL
NT06N	NIST Traceable Particle Size Standard, 150nm	15mL
NT07N	NIST Traceable Particle Size Standard, 200nm	15mL



Ordering Information, cont.

Catalog Code	Description	Size
NT08N	NIST Traceable Particle Size Standard, 300nm	15mL
NT09N	NIST Traceable Particle Size Standard, 400nm	15mL
NT10N	NIST Traceable Particle Size Standard, 500nm	15mL
NT11N	NIST Traceable Particle Size Standard, 600nm	15mL
NT12N	NIST Traceable Particle Size Standard, 700nm	15mL
NT13N	NIST Traceable Particle Size Standard, 800nm	15mL
NT14N	NIST Traceable Particle Size Standard, 900nm	15mL
NT15N	NIST Traceable Particle Size Standard, 1µm	15mL
NT16N	NIST Traceable Particle Size Standard, 1.5µm	15mL
NT17N	NIST Traceable Particle Size Standard, 2µm	15mL
NT18N	NIST Traceable Particle Size Standard, 2.5µm	15mL
NT19N	NIST Traceable Particle Size Standard, 3µm	15mL
NT20N	NIST Traceable Particle Size Standard, 3.5µm	15mL
NT21N	NIST Traceable Particle Size Standard, 4µm	15mL
NT22N	NIST Traceable Particle Size Standard, 5µm	15mL
NT23N	NIST Traceable Particle Size Standard, 6µm	15mL
NT24N	NIST Traceable Particle Size Standard, 7µm	15mL
NT25N	NIST Traceable Particle Size Standard, 8µm	15mL
NT26N	NIST Traceable Particle Size Standard, 9µm	15mL
NT27N	NIST Traceable Particle Size Standard, 10µm	15mL
NT28N	NIST Traceable Particle Size Standard, 12µm	15mL
NT29N	NIST Traceable Particle Size Standard, 15µm	15mL
NT30N	NIST Traceable Particle Size Standard, 20µm	15mL
NT31N	NIST Traceable Particle Size Standard, 25µm	15mL
NT32N	NIST Traceable Particle Size Standard, 30µm	15mL
NT33N	NIST Traceable Particle Size Standard, 40µm	15mL
NT34N	NIST Traceable Particle Size Standard, 50µm	15mL
NT35N	NIST Traceable Particle Size Standard, 60µm	15mL
NT36N	NIST Traceable Particle Size Standard, 80µm	15mL
NT37N	NIST Traceable Particle Size Standard, 100µm	15mL
NT38N	NIST Traceable Particle Size Standard, 125µm	15mL
NT39N	NIST Traceable Particle Size Standard, 150µm	15mL
NT40N	NIST Traceable Particle Size Standard, 175µm	15mL

Order online anytime at www.bangslabs.com.