

Thermo Scientific 5000 Series Polymer/ 7000 Series Co-Polymer Bead Suspensions

Accurately analyze non-diagnostic particulates of various sizes

- Offers the flexibility for use in numerous non-diagnostic testing and R&D applications
- Wide range of sizes (0.03 μm to 222 μm) for analysis of particulate matter of various sizes and properties
- Uniform diameters are confirmed by optical microscopy, photon correlation spectroscopy or light scattering to ensure reliable, accurate results
- Manufactured under strict quality and GMP control in our FDA registered and ISO-13485 certified facility



5000 Series Polymer

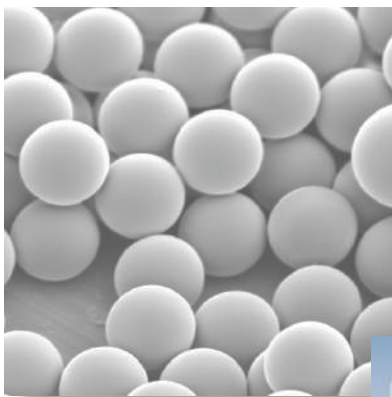
The Thermo Scientific 5000 Series of polymer latex beads feature diameters in the colloidal size range of 0.03 μm to 3.2 μm , making them ideal for:

- light scattering, fluid mechanics research
- dispersion studies
- microporous filter evaluation, checking and testing
- aerosol particle generation

7000 Series Co-polymer

With a size range of 3.2 μm to 222 μm , the Thermo Scientific 7000 Series of co-polymer beads are especially designed for use as model systems when analyzing larger sized particulates. Typical applications include:

- large pore filter evaluation, checking and testing
- model systems for fluid mechanics research
- experimental particles for acoustical and optical analytical systems



High concentrations of 5000 and 7000 Series beads are available in 15 mL, 100 mL and 1000 mL bottles. Not intended for use in instrument calibration or diagnostic reagents.

5000 and 7000 Series Bead Suspensions

For specialty applications where precision and uniformity matters when analyzing particulates of various sizes, we offer 5000 Series polymer beads and 7000 Series co-polymer beads. While not intended for use in instrument calibration and diagnostic reagents, these beads feature diameters measured by optical microscopy, photon correlation spectroscopy or light scattering to ensure accuracy. Packaged as aqueous suspensions, the 15 mL ("A" catalog numbered bottles as listed below) are available for immediate purchase. If larger bottles are required, ask about our 100 mL "B" bottles and 1000 mL "C" bottles which are packaged to order; i.e., 5003B and 5003C, or 7503B and 7503C.

Specifications

Composition	5000 Series: Polystyrene; 7000 Series: polystyrene crosslinked with divinylbenzene
Density	1.05 g/cm ³
Index of refraction	1.59 @ 589 nm (25°C)
Additives	Trace amount of surfactant
Concentration	10%
Shelf life	≥ 24 months
Documentation	Package Insert Sheet, Safety Data Sheet available upon request
Storage and Handling	Unless otherwise stated, store at room temperature or refrigerate (2-8 °C) product when not in use but do not freeze. Store upright and keep bottle tightly sealed.

5000 Series

Nominal Diameter	Size Uniformity	Bottle Size	% Solids	Catalog Number
0.03 µm	≤ 30%	15 mL	10%	5003A
0.06 µm	≤ 18%	15 mL	10%	5006A
0.08 µm	≤ 18%	15 mL	10%	5008A
0.09 µm	≤ 15%	15 mL	10%	5009A
0.10 µm	≤ 15%	15 mL	10%	5010A
0.11 µm	≤ 12%	15 mL	10%	5011A
0.12 µm	≤ 12%	15 mL	10%	5012A
0.14 µm	≤ 6%	15 mL	10%	5014A
0.16 µm	≤ 6%	15 mL	10%	5016A
0.17 µm	≤ 5%	15 mL	10%	5017A
0.20 µm	≤ 5%	15 mL	10%	5020A
0.22 µm	≤ 3%	15 mL	10%	5022A
0.24 µm	≤ 3%	15 mL	10%	5024A
0.26 µm	≤ 3%	15 mL	10%	5026A
0.30 µm	≤ 3%	15 mL	10%	5030A
0.31 µm	≤ 3%	15 mL	10%	5031A
0.33 µm	≤ 3%	15 mL	10%	5033A
0.36 µm	≤ 3%	15 mL	10%	5036A
0.43 µm	≤ 3%	15 mL	10%	5043A
0.45 µm	≤ 3%	15 mL	10%	5045A
0.49 µm	≤ 3%	15 mL	10%	5049A
0.50 µm	≤ 3%	15 mL	10%	5050A
0.51 µm	≤ 3%	15 mL	10%	5051A
0.52 µm	≤ 3%	15 mL	10%	5052A
0.60 µm	≤ 3%	15 mL	10%	5060A
0.65 µm	≤ 3%	15 mL	10%	5065A
0.67 µm	≤ 3%	15 mL	10%	5067A
0.75 µm	≤ 3%	15 mL	10%	5074A

Nominal Diameter	Size Uniformity	Bottle Size	% Solids	Catalog Number
0.81 µm	≤ 3%	15 mL	10%	5081A
0.88 µm	≤ 3%	15 mL	10%	5088A
0.93 µm	≤ 3%	15 mL	10%	5093A
1.0 µm	≤ 3%	15 mL	10%	5100A
1.3 µm	≤ 5%	15 mL	10%	5130A
1.5 µm	≤ 4%	15 mL	10%	5153A
2.0 µm	≤ 4%	15 mL	10%	5200A
2.9 µm	≤ 5%	15 mL	10%	5300A
3.2 µm	≤ 5%	15 mL	10%	5320A

7000 Series

Nominal Diameter	Size Uniformity	Bottle Size	% Solids	Catalog Number
3.2 µm	≤ 45%	15 mL	10%	7503A
6.0 µm	≤ 25%	15 mL	10%	7505A
7.9 µm	≤ 20%	15 mL	10%	7508A
11 µm	≤ 18%	15 mL	10%	7510A
17 µm	≤ 16%	15 mL	10%	7516A
19 µm	≤ 16%	15 mL	10%	7520A
25 µm	≤ 15%	15 mL	10%	7525A
45 µm	≤ 15%	15 mL	10%	7545A
55 µm	≤ 16%	15 mL	10%	7550A
71 µm	≤ 15%	15 mL	10%	7575A
90 µm	≤ 16%	15 mL	10%	7590A
97 µm	≤ 12%	15 mL	10%	7602A
134 µm	≤ 16%	15 mL	10%	7640A
222 µm	≤ 12%	15 mL	10%	7725A

thermoscientific.com/particletechnology

© 2014 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

Clinical Diagnostics
Particle Technology

46500 Kato Road
Fremont, California 94583
U.S.A.

1-800-232-3342 (USA)
+1-510-979-5000 (International)
info.microparticles@thermofisher.com

Thermo
SCIENTIFIC

Part of Thermo Fisher Scientific