



Latex Microsphere Suspensions - 5000 Series Copolymer Microsphere Suspensions - 7000 Series

DESCRIPTION

The microspheres in the 5000 and 7000 series products are made of polystyrene (5000 series) or polystyrene cross-linked with divinylbenzene (7000 series). They are packaged as aqueous suspensions at 10% solids by weight. They have a refractive index of 1.59 @ 589 nm and a density of 1.05 g/cm³. These products are packaged in 15 mL or 100 mL quantities in deionized water with a trace amount of surfactant to inhibit agglomeration and promote stability. Larger quantities are available upon request.

HANDLING SUGGESTIONS

The particles must be thoroughly dispersed and resuspended before use. They can easily be resuspended by gently rolling or swirling the bottle, followed by a brief (15 second) immersion in a low power ultrasonic bath. A clean pipette can be used to take samples from the bottle. Shaking the bottle is not recommended, as the product may foam.

APPLICATIONS

Many applications will require a more dilute suspension. The end-user may dilute these products with particle-free, deionized water. If the dilution is too great, or there appears to be some agglomeration of the particles, a non-ionic or anionic surfactant may be added to stabilize the particles. Usually, 1 or 2 drops of a 1% surfactant solution should suffice but this will generally not be needed. Diluted suspensions may not be stable over time, therefore we recommend making the diluted suspensions as required rather than storing pre-made dilutions.

These products are intended for research and testing applications only. They are not suitable for calibration or applications that require NIST traceable mean diameters. The mean diameter of these products was determined either by Photon Correlation Spectroscopy (PCS), laser light scattering, or optical microscopy. These products have an extremely wide range of applications. If you have questions about a specific application, please feel free to contact us or visit our website.

LIMITED WARRANTY

These products are intended for laboratory use by trained scientific personnel. Determination of their suitability for a specific end-use is the responsibility of the user, who assumes all liability for loss or damage arising out of the use of the product. Rebottling or relabeling voids the warranty and certification. Microgenics Corporation's warranty is limited to replacement of defective products if returned with our authorization within 60 days of purchase date.

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