



Manufacturer:
AngströmSphere™


Product Name:
AngströmSphere™ Silica Microspheres, 1.0um (1Kg)

Manufacturer Part Number:
SIOP100-01-1KG

▶ [Click here for more details on the AngströmSphere™ Silica Microspheres, 1.0um \(1Kg\)](#)

PRODUCT DATASHEET for **ANGSTRÖMSPHERE™** silica spheres

Uniform Micron-Sized Silica Spheres



SEM photograph of **ANGSTRÖMSPHERE™** uniform silica spheres

ANGSTRÖMSPHERE™ silica spheres are manufactured using our own proprietary technologies which allow the essential properties of amorphous silica to be combined with unique control of duplication, both in form and particle size.

Applications

- Filler for High Performance polymeric systems
- Antislip agent for plastic film production
- Nanocomposite filler
- Ceramic and glass forming applications
- Biomedical applications
- Chemical Mechanical Polishing (CMP)
- Particle size standards
- LCD spacers
- Light diffusers
- Chromatography
- Photonic crystals and synthetic opals
- Research and development

Specifications

Shape:

- Perfectly spherical

Size Range Capability:

- 0.1 μm to 2 μm

Size Distribution:

- Particle Size Standard Deviation <10%

Forms Supplied:

- Dry Form, In Dispersions of Water or Alcohols and others

Standard Powder Description:

- Selected from standard sizes listed above.
- Supplied in dry form with no surface modification

Custom Synthesis:

- Special sizes, Surface modifications

Physical Properties

- Density: Non Porous ~ 1.8 grams/cc
- Structure: Amorphous
- Purity: >99.9%
- Alpha Emitters: Very Low
- Dielectric Constant: ≤ 3.8

- CTE: 0.6ppm/°C
- Refractive Index: ~ 1.38 - 1.46
- Surface Area: ~ 2-6 m²/g
- Melting Point: 1840 °C
- Softening Point: 1600 °C

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Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Product specifications and data are subject to change without notice.