



**Manufacturer:**  
AngströmSphere™


**Product Name:**  
AngströmSphere™ Silica Microspheres, 0.50um (1Kg)

**Manufacturer Part Number:**  
SIOP050-01-1KG

▶ [Click here for more details on the AngströmSphere™ Silica Microspheres, 0.50um \(1Kg\)](#)

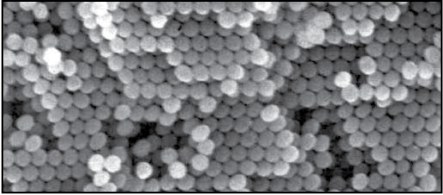
**PRODUCT DATASHEET** for **ANGSTRÖMSPHERE™** silica spheres

*Uniform Micron-Sized Silica Spheres*



ANGSTRÖMSPHERE™  
Uniform Micron-Sized 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.



SEM photograph of ANGSTRÖMSPHERE™ uniform silica spheres

**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

**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

**Physical Properties**

• Density	Non Porous ~ 1.8 grams/cc	• CTE	0.6ppm/°C
• Structure	Amorphous	• Refractive Index	~ 1.38 - 1.46
• Purity	>99.9%	• Surface Area	~ 2-6 m <sup>2</sup> /g
• Alpha Emitters	Very Low	• Melting Point	1840 °C
• Dielectric Constant	≤ 3.8	• 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.*