



**Manufacturer:**  
AngströmSphere™

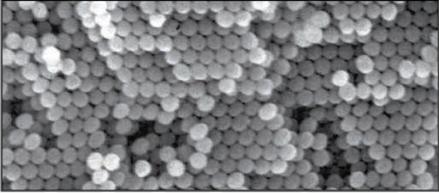
**Product Name:**  
AngströmSphere™ Silica Microspheres, 1.75um (100g)

**Manufacturer Part Number:**  
SIOP175-01-100G

▶ [Click here for more details on the AngströmSphere™ Silica Microspheres, 1.75um \(100g\)](#)

**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.

**Specifications**

**Shape:**

- Perfectly spherical

**Size Range Capability:**

- 0.1  $\mu\text{m}$  to 2  $\mu\text{m}$

**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

ANGSTRÖMSPHERE™ is a trademark of Fiber Optic Center Inc.

Fiber Optic Center, Inc. MAKES NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS OR OTHERWISE, with respect to its products. In addition, while the information herein is believed to be reliable, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof. All recommendations or suggestion for use are made without guarantee – inasmuch as conditions of use are beyond our control. The properties given are typical values, and are not intended for use in preparing specifications. Users should make their own test to determine the suitability of this product for their own purposes.

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

[focenter.com](http://focenter.com) • 508-992-6464 | (800) 473-4237 • [sales@focenter.com](mailto:sales@focenter.com)  
23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice. FOC last update 1/9/2026.