Manufacturer:
AngströmSphere™

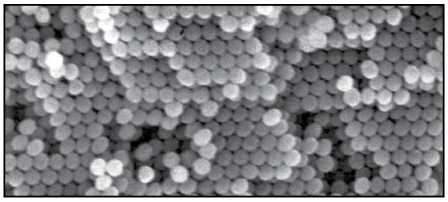
Product Name:
AngströmSphere™ Silica Microspheres, 1.50um (1Kg)

Manufacturer Part Number:
SIOP150-01-1KG

PRODUCT DATASHEET for ÅNGSTRÖMSPHERE™ silica spheres

Uniform Micron-Sized Silica Spheres

ÅNGSTRÖMSPHERE™ 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 ÅNGSTRÖMSPHERE™ uniform silica spheres

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	· CTE	0.6ppm/°C
· Structure	Amorphous	· Refractive Index	~1.38 - 1.46
· Purity	>99.9%	· Surface Area	~2-6 m²/g
· Alpha Emitters	Very Low	· Melting Point	1840 °C
· Dielectric Constant	≤ 3.8	· Softening Point	1600 °C