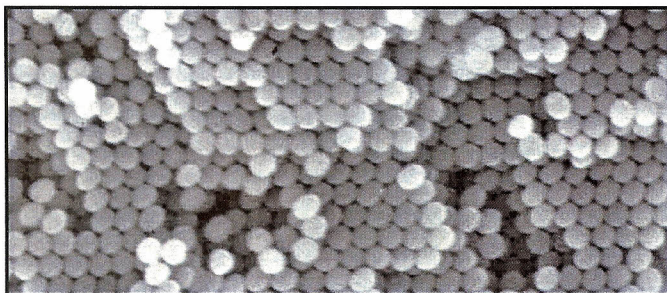


PRODUCT DATASHEET for ÅNGSTRÖMSphere™ silica spheres

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

Physical Properties

- | | |
|-----------------------|---------------------------------------|
| • Density | Non Porous-Approximately 2.0 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 m ² /g |

Specifications

Shape:

- Perfectly spherical

Size Range Capability:

- 0.1 μ m to 2 μ 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

Attributes

- Only US Manufacturer for Production Quantities
- Affordable Silica Powder for Production Applications
- High Purity
- Uniform Particle Size
- Controllable Refractive Index

ÅNGSTRÖMSphere™ is a trademark of Fiber Optic Center Inc.

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