

Serogel™

Silica Aerogel Particles

Product highlights

Serogel™ is a high-performance silica aerogel material known for its exceptional thermal conductivity, lightweight, high porosity and high surface area. It is also non-combustible, inert, non-toxic, and biocompatible, ensuring safety in various industries such as building insulation, aerospace, oil and gas industry, electronics, catalysis, clothing and textiles, coatings.



Serogel™ is an ideal insulation material for buildings, appliances, and industrial equipment.

Serogel™ can be used as a lightweight and strong material for insulation and heat shields in space vehicles and spacecraft.

Serogel™ can be used as a dielectric material in electronic devices, as well as for thermal management.

Serogel™ can be used as a catalyst support in chemical reactions.

Serogel™ can be incorporated into fabrics to improve insulation properties, making them suitable for use in cold weather clothing and gear.

Serogel™ can be used as a coating to improve the durability, heat resistance, and insulation properties of surfaces.

Serogel™ Properties

Particle thermal conductivity (W/m.K)	0.013 ± 0.001
Bulk thermal conductivity (W/m.K)	0.019 ± 0.002
Pore diameter (nm)	20 ± 5
Particle size range (mm)	0.7 ± 0.5
Surface area (m²/g)	700 ± 100
Particle density (kg/m³)	150 ± 30
Bulk density (kg/m³)	85 ± 10
Porosity	>90%
Surface chemistry	Hydrophobic

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