

# 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.

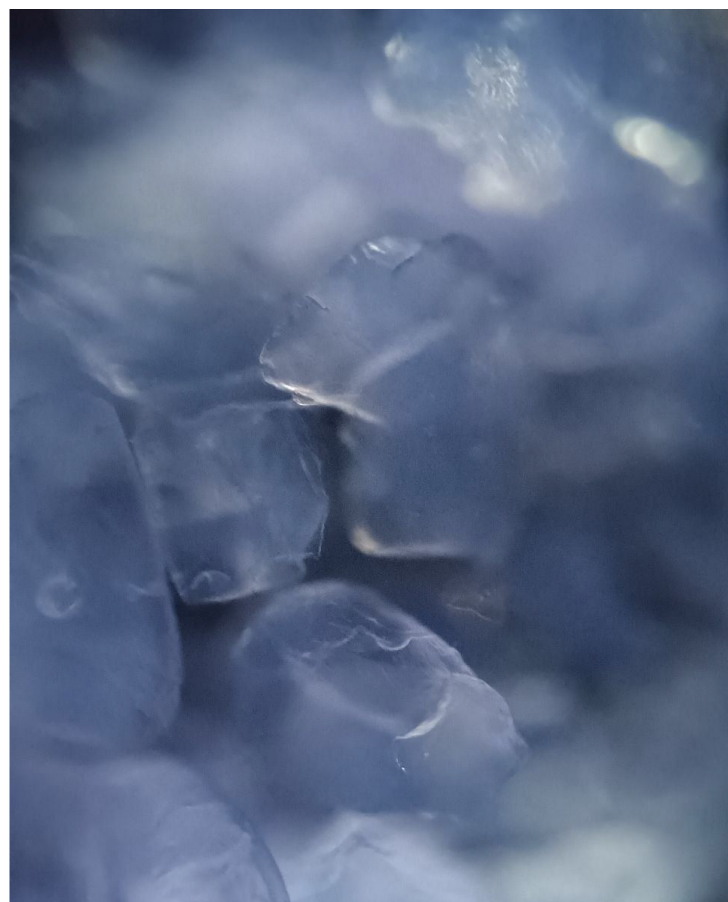
**Serogel™** can be used as a catalyst support in chemical reactions.

**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 (m <sup>2</sup> /g)	700 ± 100
Particle density (kg/m <sup>3</sup> )	150 ± 30
Bulk density (kg/m <sup>3</sup> )	85 ± 10
Porosity	>90%
Surface chemistry	Hydrophobic



DISCLAIMER: The information provided herein is for informational purposes only and is believed to be reliable. However, DP Aerogels INTERNATIONAL does not guarantee that others will achieve similar results or conclusions. The information may contain inaccuracies or errors, and DP AEROGELS INTERNATIONAL disclaims all warranties, including merchantability and fitness for a particular purpose, regarding the information or any related product. DP AEROGELS INTERNATIONAL is not responsible for any damages resulting from the use of this information or related products.