

AEROGEL SUPER-INSULATION POWDER



Main Properties



- ▶ Low thermal conductivity
- ▶ No glass transition temperature
- ▶ Excellent thermal shock resistance



- ▶ Low thermal expansion
- ▶ Highly hydrophobic
- ▶ Oleophilic



- ▶ Low density
- ▶ Low dielectric constant
- ▶ Energy Saving



- ▶ Cost effective
- ▶ Design freedom

Our silica based aerogels are synthetic, porous and ultralight, offering a combination of properties that render the aerogels as an excellent solution for a variety of applications.

SILFILLER offers a range of potential applications, such as thermal insulation, dielectric filler, and pollution control.

SILFILLER's hydrophobicity render it excellent properties to be used as an additive, enhancing free-flow of powders.

SILFILLER further has the application of water purification by removing a large number of organic compounds at the level of few ppb (part per billion).

Applications

SILFILLER main applications include:

- ▶ Thermal insulation enhancer in coating and paints;
- ▶ Thermal insulation enhancer in mortar, cement, and plaster;
- ▶ Dielectric filler for high-power RF filters;
- ▶ Additive for enhancing free-flow of powders;
- ▶ Water purifier absorbing organic compounds.

Volume range

SILFILLER is available in:

- ▶ 1 L
- ▶ 5 L
- ▶ 10 L
- ▶ 20 L



Physical Properties

Density [kg m ⁻³]	85
Service temperature [°C]	-250 to 350
Thermal conductivity [mW m ⁻¹ K ⁻¹] Atmospheric pressure, 10 °C EN 12667:2001, Single –specimen Lambda-meter EP-500, Lambda-Messtechnik GmbH Dresden	32.8
Hydrophobic	✓
Relative Permittivity	1.13
Particle Size [µm]	5 to 60