

AEROGEL SUPER-INSULATION FOAM



Main Properties



- ▶ Low thermal conductivity
- ▶ No glass transition temperature
- ▶ Excellent thermal shock resistance
- ▶ Low thermal expansion
- ▶ Highly hydrophobic
- ▶ 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.

SILFOAM offers an innovative and easy way for applying aerogel insulation. This product can be easily sprayed or applied with plaster tools on small or large complex structures.

Furthermore, SILFOAM has a very low particle shedding and self-adhesion to several materials (aluminium, stainless steel, glass, acrylic and others).

After application, SILFOAM can be dried at ambient temperature and pressure. For faster drying, higher temperatures (below 60 °C) can be used.

Applications

SILFOAM main applications include:

- ▶ Pipework systems - liquid and gas transport
- ▶ Storage tanks
- ▶ Dewars
- ▶ Process equipment – industrial process components
- ▶ Building insulation
- ▶ HVAC systems

Volume range

SILFOAM is available in:

- ▶ 1 L
- ▶ 5 L
- ▶ 10 L
- ▶ 20 L



Physical Properties

Density [kg m ⁻³]	105 to 120
Service temperature [°C]	-196 to 250
Thermal conductivity [mW m ⁻¹ K ⁻¹] Atmospheric pressure, 10 °C EN 12667:2001, HFM 436/3/1, NETZSCH	26.8
Coefficient of thermal expansion [10 ⁻⁵ K ⁻¹] -120 °C, TMA 402 F3, NETZSCH	7.4
Compressive strenght [kPa]	29
Compressive modulus [kPa]	394
Hydrophobic	✓
Oleophilic	✓