GHT

Aerogel

Powder and blanket products

GHT offers aerogel powder for formulations and flexible insulation blankets for equipment and piping. We help select the product for your application.



Silica aerogel blanket product illustration.

Product	Supply format and selection criteria
Aerogel powder	Nanoporous silica-based powder for paints, coatings, resins, rubber, sealants and composites. Review hydrophilic or hydrophobic surface properties and dispersion conditions.
Silica aerogel blanket	Flexible insulation combining silica aerogel and glass-fibre felt. Review thickness and installation conditions for hot or cold insulation of piping, equipment and tanks.

Discuss your application with GHT

Tell us what you need to insulate, the operating temperature, available installation space, preferred supply format and quantity. For powder, we review formulation and dispersion. For blankets, we review the installation geometry and target surface temperature.

Performance depends on grade, test conditions and formulation or installation. Confirm the final specification and required test documents before ordering.

Aerogel powder grades

Select a hydrophilic or hydrophobic grade to suit the formulation materials and dispersion method.

Property	Hydrophilic	Hydrophobic-50	Hydrophobic-100
Surface properties	Hydrophilic	Hydrophobic	Hydrophobic
Specific surface area (m^2/g)	600-1000	800-1000	800-1000
Thermal conductivity at 25°C, W/(m·K)	≤0.025	≤0.021	≤0.021
Porosity	>90%	>90%	>90%
Pore diameter (nm)	20-50	20-50	20-50
Particle size (μm)	15, 35	15, 35	50-100
Appearance	White	White	White

Applications and evaluation

Applications include insulating paints, functional coatings, lightweight insulating composites and fillers. Assess water-based or solvent-based formulations, binder compatibility, target viscosity, dispersion method and addition level.

Sample evaluation

Alongside insulation performance, evaluate coating adhesion and strength, processability and dust management. The powder properties above do not directly describe the performance of a finished coating or composite.

Contact GHT to confirm the grade, test conditions and test methods for the required specification.

Silica aerogel blankets

Consider flexible blanket insulation for equipment, piping and tanks where installation space is limited.

Property	Published product specification
Composition	Nanosilica aerogel / glass-fibre felt
Standard thickness	3 / 5 / 6 / 10 mm
Thickness options	1-30 mm, subject to individual confirmation
Width / roll length	Width: 1500 mm. Maximum roll length: 35 m; length depends on thickness.
Maximum service temperature	650°C. Confirm the actual operating conditions and product configuration.
Density	180 ±20 kg/m³
Thermal conductivity W/(m·K)	25°C: <0.021 / 200°C: <0.027 300°C: <0.035 / 500°C: <0.080
Hydrophobicity	≥98%. Confirm the applicable test conditions.

Installation and handling

Review wrapping or cutting geometry, joints, outer cladding and fastening methods. Manage dust inhalation and contact with the eyes or skin. Use ventilation and protective equipment appropriate to the task.

Fire classification and suitability for building applications must be checked against the required standards and supporting test documents. This guide does not establish compliance with local non-combustibility approval requirements.

Product pages: www.geonheetts.com/en/materials/aerogel-powder
www.geonheetts.com/en/materials/silica-aerogel-blanket