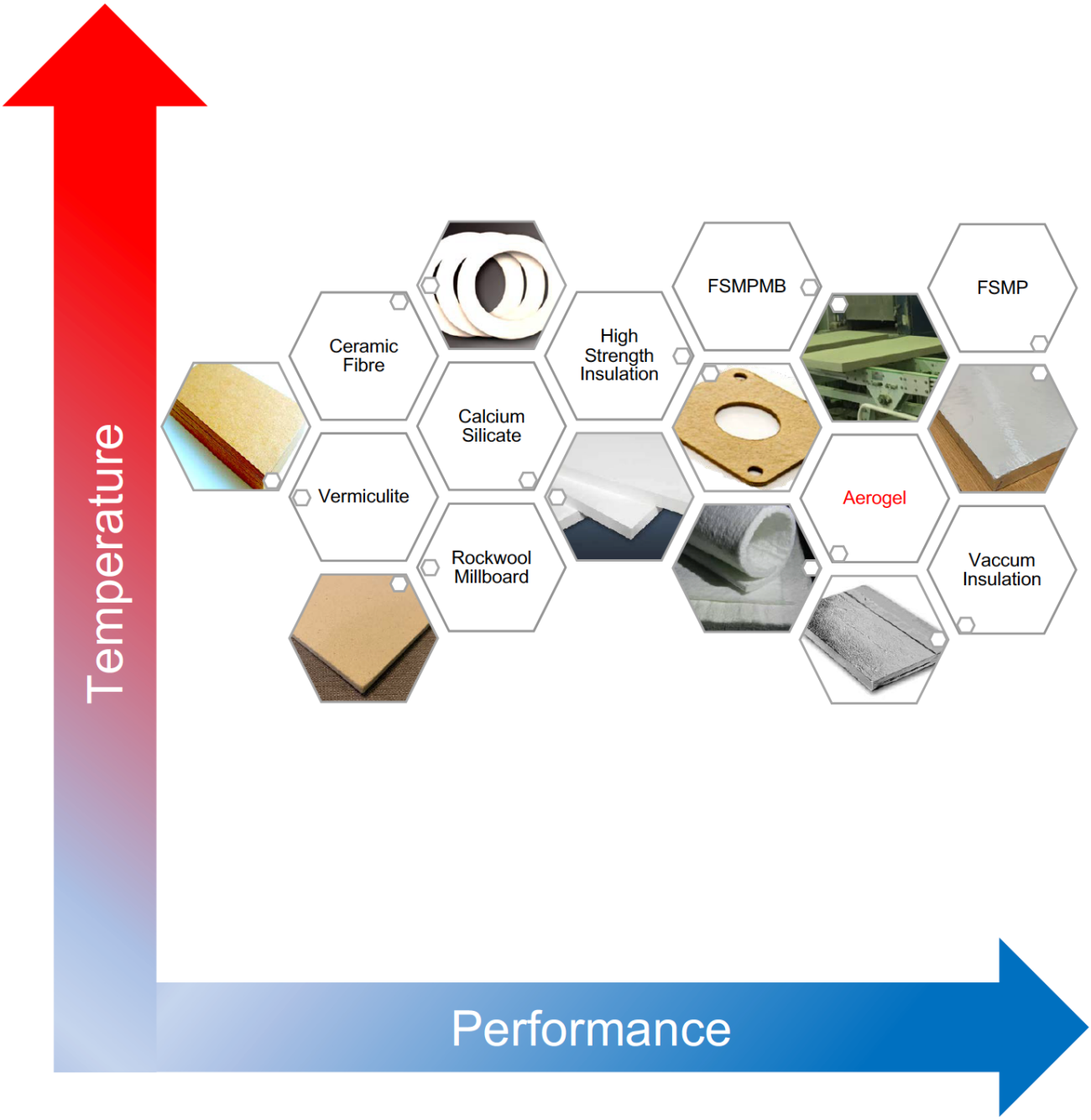
Wedge India

Aerogel Insulation

High Performance Blanket, Boards, Granule



WAG650 | Technical Data Sheet

Aerogel insulation is a non-wetting, water repellent 100% composite of a Silica-based Aerogel available in flexible and rigid formats. Aerogel blankets contain more than 90% Volume Aerogel with 10% fibres and other components to hold the structure strength.

Features and Benefits

- Lightweight, thin, custom made & very flexible
- Extremely high insulation with thermal conductivity (0.015 W/m. K). Better insulation than still air.
- Fireproof, Water repellant >98 % hydrophobic.
- More than 6 times higher insulation than Rockwool, EPS, PUF, PIR
- Less Time and Labour cost to Install. Reusable lower maintenance cost
- Environmentally Safe, Longer Service Life
- Sound Insulation and Shock Absorption
- Wide working temperature range -50 to 650 Degree C.

Applications

- Pipe Insulation Hot Water, Gas, Oil, Steam, etc.
- EV Lithium Ion Battery Module Insulation
- Back-up insulation in refractory lined pipes
- Exhaust systems, Filler material for mattresses, cassettes, heat shields, expansion joints.
- Prefabricated pipe with insulation
- Tanks, vessels and other equipment
- Car, Automobile Insulation, high-speed, train, and subway
- Building and Construction
- PFP (Passive Fire Protection)

Technical Specifications and Properties of Wedge Aerogel

Quality		WAG650-3	WAG650-4	WAG650-5	WAG650-6	WAG650-10
Thickness, mm		3	4	5	6	10
Length, m		38	40	42	40	36
Width, mm		1500	1500	1500	1500	1500
Colour		White	White	White	White	White
Density	kg/m3	220	220	210	210	200
Classification Temperature	ºC	-50 to 650	-50 to 650	-50 to 650	-50 to 650	-50 to 650
Shor term Temperature Resistance more than 5 minutes	ºC	1200	1200	1200	1200	1200
Compression Strength at 10%	KPa	100	100	100	80	60
Non combustibility test Classification, Fire Proofing		A1	A1	A1	A1	A1
Tensile Strength	KPa	1400	1400	1400	1400	1400
Thermal conductivity at 25°C	W/m.K	0.018	0.018	0.018	0.018	0.018
Thermal conductivity at 200°C	W/m.K	0.028	0.028	0.028	0.028	0.028
Thermal conductivity at 300°C	W/m.K	0.036	0.036	0.036	0.036	0.036
Thermal conductivity at 400°C	W/m.K	0.047	0.047	0.047	0.047	0.047
Thermal conductivity at 500°C	W/m.K	0.068	0.068	0.068	0.068	0.068
Hydrophobicity	%	99	99	99	98.6	98.6
Coverings		Aluminium Foil, E-Glass Cloth, Ceramic Paper, Mica, Millboard, Steel