

# Wedge India

## MicroSilica Slim Insulation

Thin & Rigid Microporous Insulation Boards



## Slim MicroSilica Insulation Boards

MicroSilica is high density microporous insulation board manufactured by mixing high quality agglomerates of Micro Fumed Silica and Selective grade opacifiers along with filaments and pressed at a very specific pressure range. These boards are most suitable to achieve a very narrow range of optimum highest possible porosity and unique range of densities to deliver a product with lowest possible heat loss through conduction, convection, radiations, and gaseous conduction. The thermal conductivity of Microporous insulation is lower than the still air at high temperatures.

### Advantages

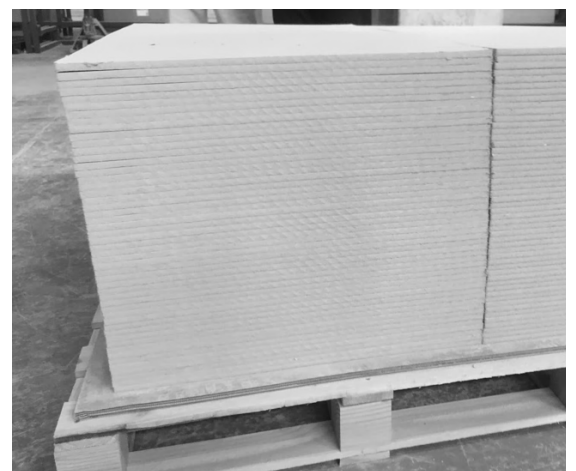
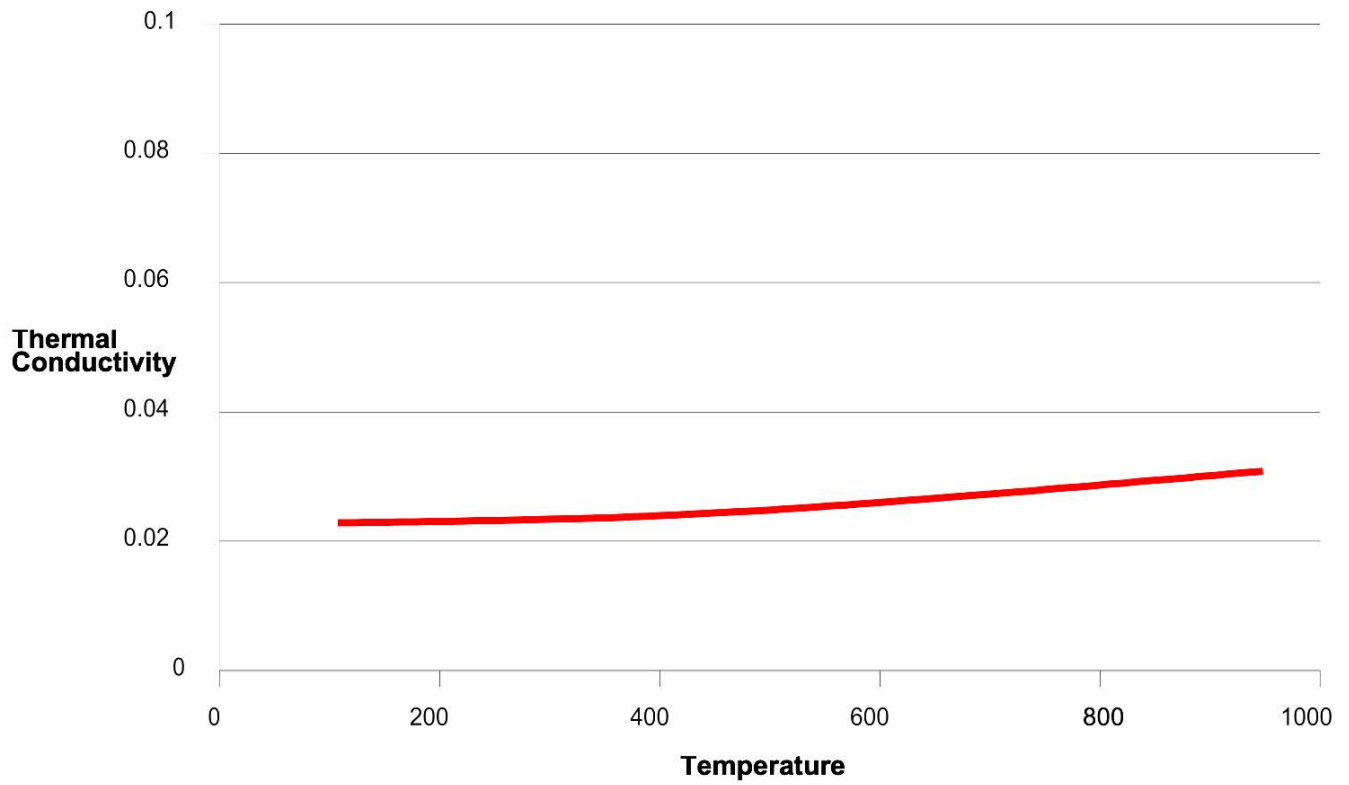
- Very high insulation, extremely low thermal conductivity.
- Very thin insulation to save space.
- Reduce insulation thickness by 4 times.
- Reduce heat loss and shell temperatures.
- Reduce energy cost and increase productivity.
- Non combustible A1 classification.
- Environmentally friendly, free of organic binders

### Applications

- Furnace back-up insulation.
- Steel, and Aluminium industry.
- Glass, cement, and ceramics industry.
- Petrochemical industry.
- Fuel cells & Thermal Batteries insulation.



Quality		MS1200	MS1000S	MS1000T	MS900	MS1200HD
Strength		High	Medium	High	Low	Very High
Colour		Grey	Grey	Brown	Grey	Grey
Density	kg/m <sup>3</sup>	280 - 320	280 - 300	320	240 - 280	360 - 480
Classification Temperature	°C	1200	1000	1000	900	1200
Non combustibility test Classification		A1	A1	A1	A1	A1
Compressive strength at 10% (ASTM C 165)	MPa	0.33	0.32	0.34	0.32	0.55
Thermal conductivity (ISO 8302, ASTM C177)						
	200°C W/m.K	0.023	0.022	0.021	0.022	0.032
	400°C W/m.K	0.024	0.023	0.022	0.025	0.038
	600°C W/m.K	0.026	0.027	0.028	0.032	0.045
	800°C W/m.K	0.029	0.034	0.031	0.038	0.062
Specific Heat Capacity						
	200°C kJ/kg.K	0.89	0.85	0.92	0.92	0.88
	400°C kJ/kg.K	1.01	0.94	1.01	1.01	0.98
	600°C kJ/kg.K	1.04	0.96	1.03	1.03	1.03
	800°C kJ/kg.K	1.07	0.99	1.08	1.08	1.06
Shrinkage (ISO2477) one side 12h @1000°C Full soak	%	<0.5	<0.5	<0.5	<0.5	<0.5
Coverings		Plastic, Ceramic Paper, Aluminium Foil, E-Glass Cloth, Mica, Millboard				
Lengths	mm	250, 300, 500, 610, 1000, 1100, 1200				
Widths	mm	250, 300, 500, 610, 750				
Thickness	mm	5, 6, 10, 12, 15, 20, 25, 30				



## AG06 650 | MicroSilica Aerogel Boards

**Wedge AG06 650** are low density, low thickness, flexible commercial grade Aerogel Blanket having extremely high performance in pipe insulation in both industrial and buildings applications. The AG06 650 aerogel insulation blankets are made of high quality silica aerogel and of glass fiber needled blanket.

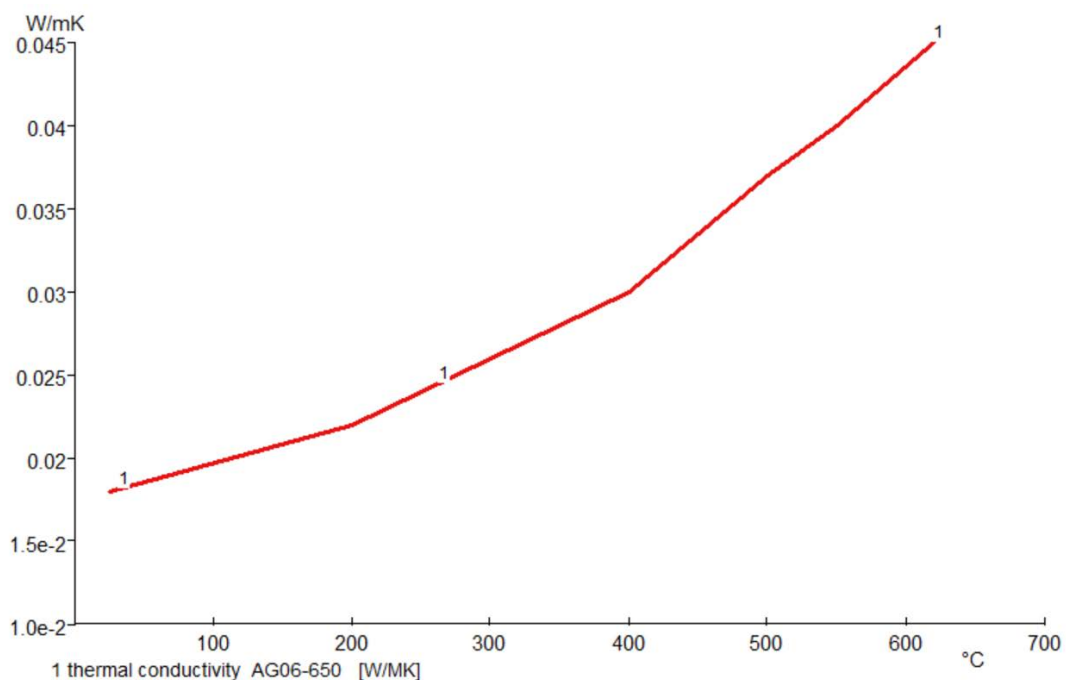
### Applications

- Hot Water / Gas / Oil Pipeline
- High heat Steam Pipeline
- Petrochemical industry & power generation
- 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
- Pipe line insulation in Petrochemical plants
- Automobile, high-speed, train, and subway
- Building and Construction
- PFP (Passive Fire Protection)

### Features & Benefits

- Lightweight, thin, custom made & very flexible
- Noncombustible & Environmentally friendly
- Resistant to most chemicals
- Superior Insulation Performance
- 4 to 5 times better than traditional insulation products with longer service life
- Reduced Insulation Thickness
- Hydrophobicity and Fire-proof
- Repel water from penetrating into pipes
- A1 rating of fire-proof
- Transportation Costs Savings
- Lower packing volume and lower weight can greatly cut down logistics costs

Properties	AG06 650
Base Materials	Aerogel Silica
Classification Temperature, °C	650 to (-) 50
Thickness, mm	5, 10
Density, Kg/M3	220
Thermal conductivity, W/m.K, at 25 °C	0.021





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