

Siltherm Board

Microporous Solutions for High Temperature Insulation

Siltherm Board are large-sized, custom made microporous insulation panels with very good thermal properties. The panels are produced in a glass cloth outer envelope, making them clean & easy to handle. The formulation is an opacified blend of filament reinforced pyrogenic silica.

Siltherm Board is the industry benchmark for A class fire ratings with the thinnest and lightest available solutions.



Properties & Advantages

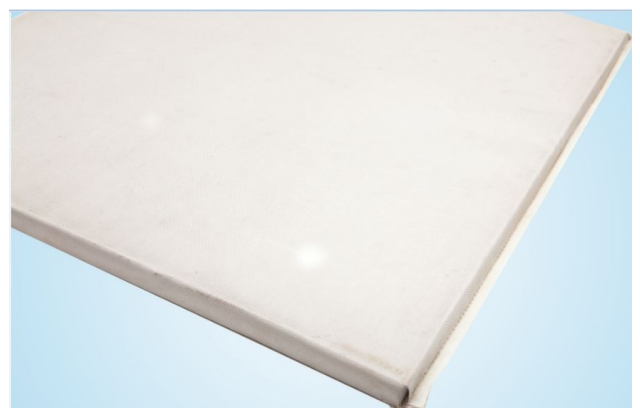
- Extremely low thermal conductivity
- High thermal stability
- High compressive strength
- No harmful respirable fibres
- Environmentally friendly
- Free of organic binders
- Resistant to most chemicals
- Non combustible
- Easy to handle

Typical Applications

- Microporous insulation offers an extremely low thermal conductivity, close to the lowest theoretically possible at high temperatures.
- Microporous materials are the preferred choice in demanding PFP (Passive Fire Protection) systems. Elevator landing doors (A60, A90, A120 ratings)
Industrial fire doors (A60, A90, A120 ratings)

Working & Processing

Siltherm Board can be shaped both manually and with stationary wood processing machinery. They can be cut, sawn, drilled and punched. The boards can be fixed in place with glue or by mechanical means such as anchors, pins and clips.



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Classification Temperature	C°	1000
Nominal Density Typical Density	[kg/m ³]	260
Compressive Strength (ASTM C-165)	[MPa]	0.18
Thermal Conductivity (ISO 8302)		
200°C	W/m.K	0.023
400°C	W/m.K	0.026
600°C	W/m.K	0.032
800°C	W/m.K	0.039
Specific Heat Capacity		
200°C	[KJ/Kg K]	0.93
400°C	[KJ/Kg K]	1.02
600°C	[KJ/Kg K]	1.05
800°C	[KJ/Kg K]	1.09
Linear Shrinkage		
12h one side @ 1000 °C	%	<0.5
24h full soak @ 1000 °C		<6
Product Dimensions and Size Availability		
Product Type	Length * Width (mm)	Thickness (mm)
Siltherm Board	2350*650	12,18,20