

# SILTHERM Slatflex

## Microporous Solutions for High Temperature Insulation

SILTHERM SLATFLEX Panel is 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 SIATFLEX is a flexible, custom made insulation panel.

SILTHERM SLATFLEX HB is a flexible, custom made insulation panel with a hydrophobic treatment to repel water. It is ideal for applications where contact with liquid water or condensation.

### Properties & Advantages

- Extremely low thermal conductivity
- High thermal stability
- Shock and vibration resistant
- Resistant to most chemicals
- Non combustible
- Clean & easy to install
- Simple to cut & shape
- No harmful respirable fibres
- Environmentally friendly
- Free of organic binders



### Typical Applications

- Petrochemical industry & power generation
- Piping line insulation
- Back-up insulation in refractory lined pipes
- Hot pipe support insulation
- CSP(Concentrated Solar Power)
- Vessels and Reactors
- Exhaust Systems

### Working & Processing

SILTHERM SLATFLEX PANEL can be shaped easily with a simple cutter. The panels can be fixed in place with glue or by mechanical means such as anchors, pins and clips. For piping line applications, the panels are installed with wire and straps, identical to conventional insulation materials.



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Description		Siltherm Slatflex		
Classification Temperature		C°	1000	1200
Long time Exposure (Core)			950	1150
Nominal Density		[kg/m <sup>3</sup> ]	240-320	240-320
Compressive Strength @ 10% deformation (ASTM C-165)		[MPa]	0.13	0.18
Thermal Conductivity (ISO 8302)				
	200°C	W/m.K	0.023	0.027
	400°C	W/m.K	0.026	0.032
	600°C	W/m.K	0.029	0.037
	800°C	W/m.K	0.034	0.043
Specific Heat Capacity				
	200°C	[KJ/Kg K]	0.92	0.92
	400°C	[KJ/Kg K]	1.01	1.01
	600°C	[KJ/Kg K]	1.04	1.04
	800°C	[KJ/Kg K]	1.08	1.08
Linear Shrinkage				
	12h full soak @ 850 °C	%	≤0.5	≤0.5
	24h full soak @ 950 °C		≤2.5	≤2.5
Standard Coverings	E Class Fibre Cloth			

### Product Dimensions and Size Availability

Product Type	Length * Width (mm)	Thickness (mm)
SILTHERM SLATFLEX	1000 * 600	5-35