

SILTHERM Stitched Microporous Solutions for High Temperature Insulation

SILTHERM STITCHED 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 .

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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

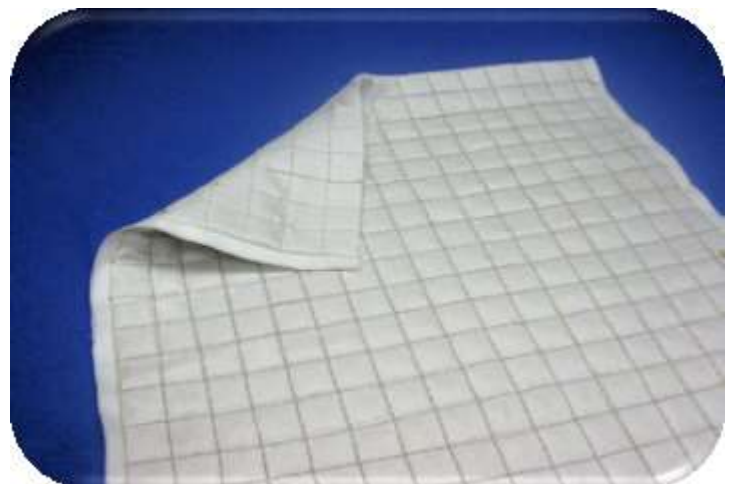


Typical Applications

- Petrochemical industry & power generation
- Piping line insulation
- Back-up insulation in refractory lined pipes
- Rotary kiln insulation
- Hot pipe support insulation
- Exhaust systems
- Filler material for mattresses, heat shields
- Passive Fire Protection
- CSP(Concentrated Solar Power)

Working & Processing

SILTHERM STITCHED 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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Microporous Solutions for High Temperature Insulation

Description	SILTHERM STITCHED PANEL			
Classification Temperature			850	1000
Long time Exposure (Core)		C°	850	950
Nominal Density			150-230	150-230
Typical Density		[kg/m ³]	180	180
Compressive Strength @ 10% deformation (ASTM C-165)		[MPa]	0.12	0.12
Thermal Conductivity (ISO 8302)				
	200°C	W/m.K	0.026	0.026
	400°C	W/m.K	0.031	0.031
	600°C	W/m.K	0.037	0.037
	800°C	W/m.K	0.042	0.042
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		≤2	≤0.5
	24h full soak @ 950 °C		--	≤2.5
	24h full soak @ 1050 °C	%	--	--
	24h full soak @ 1150 °C		--	--
Standard Coverings	E Class Fibre Cloth			

Products Dimensions and Size Availability

Product Type	Length * Width (mm)	Thickness (mm)
SILTHERM STITCHED PANEL	1000 * 600	5 / 7 /10