

SILTHERM Fibrax-FG

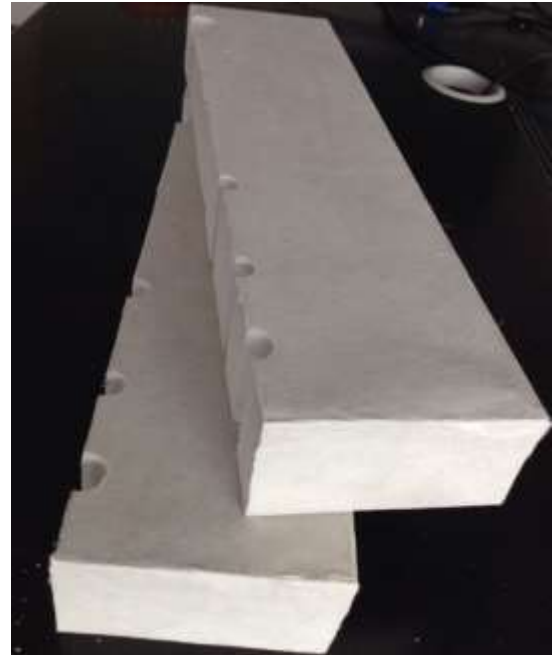
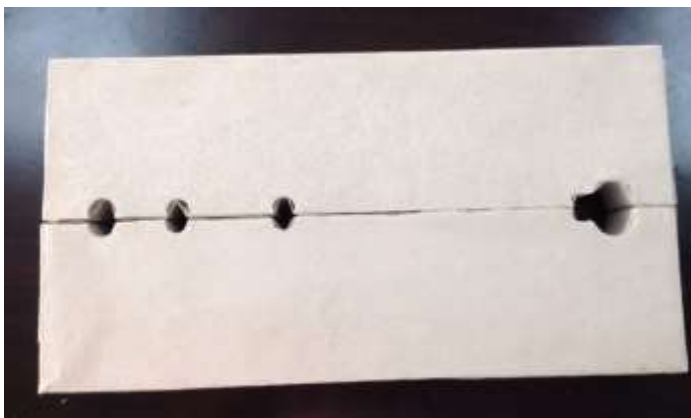
Microporous Solutions for High Temperature Insulation

Siltherm Fibrax-FG Panel is rigid finishing from microporous technology, with optimized blend of filament reinforced fumed silica, which provides a superb thermal performance.

SILTHERM FIBRAX- FG is a lightweight, customized panel wrapped with non-woven E-class fibre paper. (For example: 0.5/0.8mm ceramic refractory paper / fibre paper)

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

- Back-up insulation in industrial furnaces
- Aluminium industry (launders, holding furnace)
- Glass & ceramics industry
- Annealing & galvanizing lines
- Fuel Cells
- Petrochemical industry (cracking furnace, hydrogen reformer)

Working & Processing

SILTHERM FIBRAX-FG Panel 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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Description		SILTHERM Fibrax-FG			
Classification Temperature	C°	850	1000	1100	1200
Long time Exposure		850	950	1050	1150
Nominal Density	[kg/m ³]	240-320	240-320	260-350	350-450
Typical Density		280	280	320	400
Compressive Strength @ 10% deformation (ASTM C-165)	[MPa]	0.32	0.32	0.36	0.40
Thermal Conductivity (ISO 8302)					
200°C	W/m.K	0.022	0.022	0.024	0.027
400°C	W/m.K	0.025	0.025	0.028	0.032
600°C	W/m.K	0.028	0.028	0.032	0.037
800°C	W/m.K	0.033	0.033	0.035	0.043
Specific Heat Capacity					
200°C	[KJ/Kg K]	0.85	0.86	0.86	0.89
400°C	[KJ/Kg K]	0.95	0.96	0.97	0.99
600°C	[KJ/Kg K]	1.02	1.03	1.04	1.05
800°C	[KJ/Kg K]	1.07	1.08	1.08	1.08
Linear Shrinkage					
12h full soak @ 850 °C	%	≤2	≤0.5	≤0.1	≤0.1
24h full soak @ 950 °C		--	≤2.5	≤0.5	≤0.1
24h full soak @ 1050 °C		--	--	≤2.5	≤0.8
24h full soak @ 1150 °C		--	--	--	≤3.5
Standard Coverings	Thin Fibre Cloth---Ceramic Fibre Paper				

Product Dimensions and Size Availability

Product Type	Length * Width (mm)	Thickness (mm)
SILTHERM Fibrax-FG	1000 * 600	10-50