

# SLIMFLEX®



### Flexible microporous insulation blanket

SLIMFLEX® is a flexible microporous insulation blanket with very good thermal properties. The blanket is produced in a glass cloth outer envelope, making it clean and easy to handle.

Stitching is two-directional, suitable to insulate 3D applications. The formulation is an opacified blend of filament reinforced pyrogenic silica.

SLIMFLEX® is a flexible insulation blanket with a hydrophobic core treatment to repel water. It is ideal for applications where contact with liquid water or condensation (dew point) is possible.

### Technical data

Finishing		Glass cloth (E-Glass)*	
Stitching pitch size	mm	25 x 25	
Classification temperature	°C	1000	
Nominal density	kg/m <sup>3</sup>	260	
Compressive strength (ASTM C165)	MPa = N/mm <sup>2</sup>	0.17	
<b>Thermal conductivity (ISO 8302, ASTM C177)</b>			
200 °C	W/m K	0.027	
400 °C	W/m K	0.031	
600 °C	W/m K	0.039	
800 °C	W/m K	0.050	
<b>Specific heat capacity</b>			
200 °C	kJ/kg K	0.92	
400 °C	kJ/kg K	1.00	
600 °C	kJ/kg K	1.04	
800 °C	kJ/kg K	1.08	
<b>Shrinkage</b>			
1-sided 12h - 1000 °C	%	< 0.5	
Full soak 24h - 1000 °C	%	< 3	

\* Special coverings and coatings are available on request.

### Delivery sizes

Length	mm	8400	8400
Width	mm	500	914
m <sup>2</sup> /roll		4.20	7.68
Thickness	mm	5 / 10	5 / 10

### Production tolerances

Length	mm	± 50
Width	mm	± 5
Thickness	mm	T = 5: ± 1.0
	mm	T = 10: ± 1.5

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### Properties & advantages

- very flexible
- extremely low thermal conductivity
- high thermal stability
- shock and vibration resistant
- hydrophobic
- non-combustible
- clean and easy to install  
(procedure can be found on our website)
- simple to cut and shape  
(procedure can be found on our website)
- no harmful respirable fibres
- environmentally friendly, free of organic binders
- resistant to most chemicals

### Application areas

Microporous insulation offers an extremely low thermal conductivity, close to the lowest theoretically possible at high temperatures. Microporous materials are the preferred choice when a large temperature reduction is required within a limited space, or when strict heat loss or surface temperature requirements are specified.

### OIL AND GAS

- piping insulation in refineries and petrochemical plants
- maintenance products
- filler material for mattresses, cassettes, heat shields, expansion joints

### ENERGY

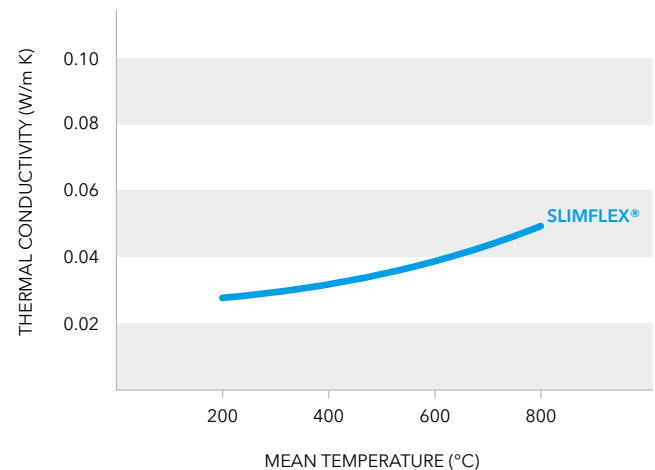
- piping insulation
- turbines
- exhaust systems



### Working & processing

SLIMFLEX® can be shaped easily with a simple cutter (the procedure can be found on our website). The panels can be fixed in place with glue or by mechanical means such as anchors, pins and clips.

### Thermal conductivity



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