

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 & 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.

Properties & advantages

- Very flexible
- Extremely low thermal conductivity
- High thermal stability
- Shock + vibration resistant
- Hydrophobic
- Non-combustible
- Clean & easy to install
(procedure can be found on our website)
- Simple to cut & shape
(procedure can be found on our website)
- No harmful respirable fibres
- Environmentally friendly, free of organic binders
- Resistant to most chemicals

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 when a large temperature reduction is required within a limited space, or when strict heat loss or surface temperature requirements are specified.

- Petrochemical & other industrial markets
- Piping insulation
- Maintenance product
- Filler material for mattresses, cassettes, heat shields, expansion joints

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.



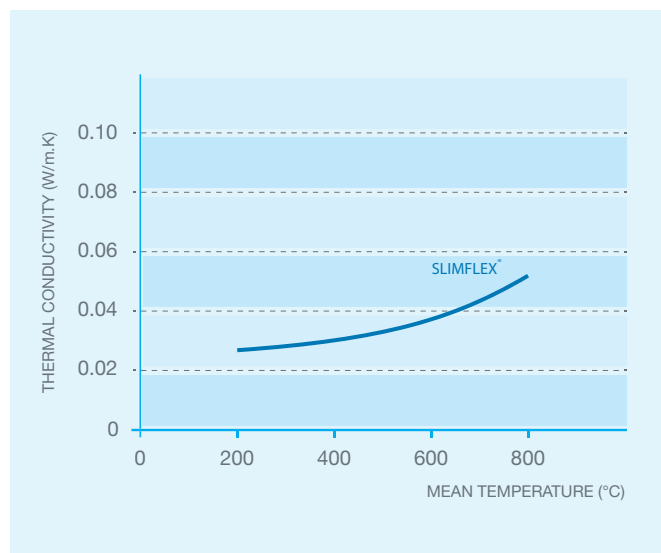


Technical data

Brand		SLIMFLEX®	
Finishing		Glass cloth (E-glass)	
Stitching pitch size		25x25mm	
Classification temperature	°C	1000	
Nominal density	kg/m ³	260	
Compressive strength (ASTM C 165)	MPa = N/mm ²	0.17	
Thermal conductivity (ISO 8302, ASTM C177)	200°C mean	W/m.K	0.027
	400°C mean	W/m.K	0.031
	600°C mean	W/m.K	0.039
	800°C mean	W/m.K	0.050
Specific heat capacity	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
Shrinkage	1-sided 12h @1000°C	%	< 0.5
	Full soak 24h @1000°C		< 3

* Special coverings and coatings are available on request.

Thermal conductivity graph



Product dimensions & standard sizes

Length [mm]	8400	8400	8400	8400
Width [mm]	500	914	500	914
Thickness [mm]	5	5	10	10
m ² /roll	4.20	7.68	4.20	7.68

Production tolerances

Length [mm]	± 50	
Width [mm]	± 5	
Thickness [mm]	T = 5	± 1
	T = 10	± 1.5