

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 ³	260	
Compressive strength (ASTM C165)	MPa = N/mm ²	0.17	
Thermal conductivity (ISO 8302, ASTM C177)			
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	
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.

Delivery sizes

Length	mm	8400	8400
Width	mm	500	914
m ² /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

SLIMFLEX[®]

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

