

**SLIMFLEX**®

# HOROPHOSIC



#### 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<sup>®</sup> is a flexible insulation blanket with a hydrophobicn 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)	$MPa = N/mm^2$	0.17
Thermal conductivity (ISO 8302, ASTM C177)		
200 °C	W/m K	0.027
400 °C	W/m K	0.031
2° 006	W/m K	0.039
2° 008	W/m K	0.050
Specific heat capacity		
200 °C	kJ/kg K	0.92
400 °C	kJ/kg K	1.00
000 °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** 8400 8400 Length mm Width 914 mm 500 m²/roll 4.20 7.68 Thickness 5/10 5/10 mm

Production tolerances		
Length	mm	± 50
Width	mm	± 5
Thickness	mm	T = 5: ± 1.0
	mm	$T = 10: \pm 1.5$



## **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**





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