



Siltherm SlatFlex

Foldable Microporous Insulation

Siltherm SlatFlex is a large sized microporous insulation panel.

This foldable product is produced with a series of 'slats', enabling the panel to be folded to wrap around circular vessels and pipework.

SlatFlex is manufactured with a glass cloth outer envelope, making the panel clean and easy for handling. The formulation is an opacified blend of filament reinforced fumed silica.

Siltherm SlatFlex is available in a hydrophobic grade for where there is a risk of contact with water or condensate.

Features and Benefits

- Extremely low thermal conductivity over a wide temperature range
- High thermal stability
- Low shrinkage
- Low in weight
- Wide range of sizes available to order
- Inorganic and non-combustible
- Shock and vibration resistant
- Simple to handle, cut, and shape
- No harmful respirable fibres
- Environmentally friendly
- Resistant to most chemicals

Cutting and Fixing

Siltherm SlatFlex can be easily cut with a sharp knife and fixed in a variety of ways similar to most conventional insulations with glue, retaining pins or anchors, straps or wire.

Typical Applications

• **Oil and Gas and Power Generation**

Process piping

Inside high temperature jacketing systems on pipes and valves, or in cassettes and heatshields

• **Transport (automotive, marine, rail, aerospace)**

Inside heat shields and jacketing systems
Exhaust systems

• **Kilns and Furnaces**

As back-up in rotary kilns and crucible furnaces

Back-up in refractory lined pipes



Technical Specification

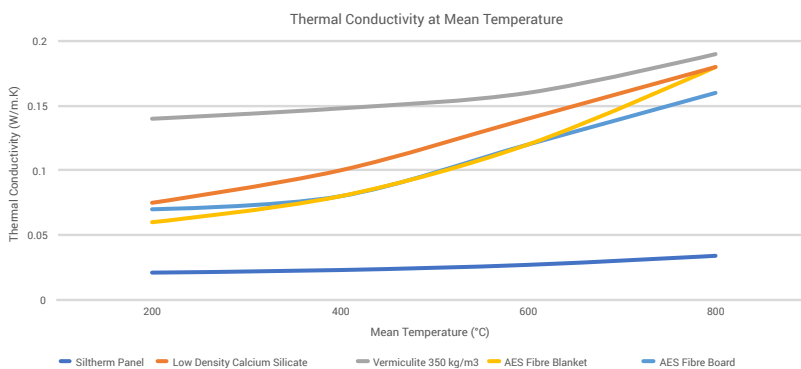
Product SlatFlex			
Classification Temperature		°C	1000
Nominal Density		kg/m ³	280
Compressive Strength @ 10% deformation		MPa	0.20
Thermal Conductivity*	200 °C	W/m.K	0.022
*Core tested according to ASTM C 177 : 2013	400 °C	W/m.K	0.023
	600 °C	W/m.K	0.027
	800 °C	W/m.K	0.034
Specific Heat Capacity	200 °C	kJ/kg.K	0.93
	400 °C	kJ/kg.K	1.03
	600 °C	kJ/kg.K	1.06
	800 °C	kJ/kg.K	1.10
Linear Shrinkage	12h full soak @ 1000 °C	%	≤0.5
Linear Shrinkage	24h full soak @ 1000 °C	%	≤5

Siltherm SlatFlex Product: 'Special coverings' and 'Hydrophobic grade' – available upon request

Standard Dimension and Format Availability*

Product SlatFlex	Length x Width (mm)	Thickness (mm)
	1000 x 600	10-50
Available Coverings	Raw / PE / GF / ALU	
Length and Width Tolerance	+/- 3	
Thickness Tolerance		±1

* Other sizes available upon request



Siltherm products offer a realistic alternative to other lightweight insulations

Siltherm products offer a **realistic alternative** compared to other lightweight insulation solutions, such as low density calcium silicate, vermiculite, fibre or wool based blankets and boards. The thermal resistance provided by Siltherm products is a **cost competitive alternative** to the other lightweight insulation solutions on the market, whilst also delivering benefits in terms of space optimisation and reduced weight.



The values given in this datasheet are typical and subject to normal manufacturing variation, they are for guidance only and maybe subject to change without notice. Recommendations for use are not intended to, and do not constitute a warranty, express or implied, of the suitability of the product for a particular use. The user is responsible for determining the suitability of Siltherm products for each application.



Siltherm Group Holdings Ltd

B-10 Huangpu Science Park
2842 Xingangdong Road
Haizhu District
510000 Guangzhou
People's Republic of China

Tel: +86 (20) 3888 9182
Email: info@siltherm.com
Web: siltherm.com

Siltherm Europe Ltd

Paramount Court
Corrig Road
Sandyford Business Park
Dublin 18, D18 R9C7
Republic of Ireland

Tel: +353 (0) 1 255 1800
Email: info@siltherm.eu
Web: siltherm.eu

Siltherm Group Holdings Ltd maintains a Quality Management System to: **ISO 9001: 2015 Certificate Registration Number CN-00219Q20582R1S**
IQNet Certificate Issued by CQM for scope 'Research and development, production and after-sales service of nano thermal insulation materials'