



Siltherm SiliCore

Rigid Microporous Insulation Panel



-130°C
+85°C



1550 x 650
mm



5-50
mm

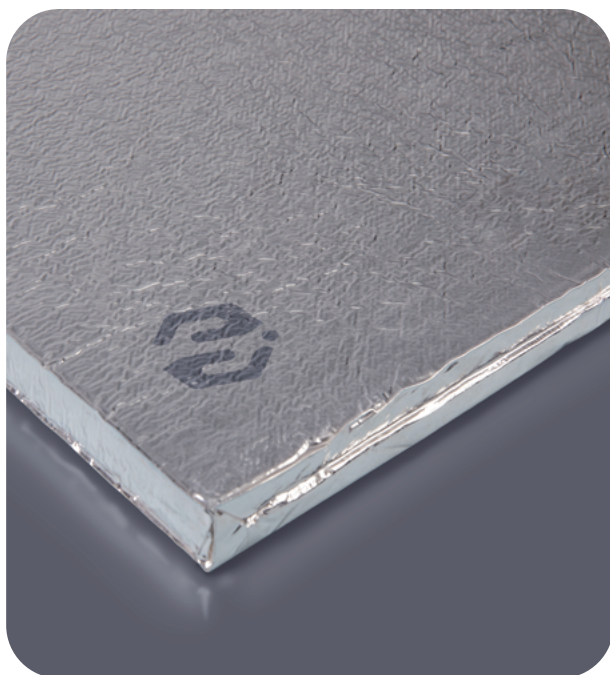
Siltherm SiliCore is a low density rigid microporous insulation board, manufactured using a blend of pyrogenic silica and filament reinforcement.

The microporous insulation core of Siltherm Panel FP is an opacified blend of pyrogenic silica with a filament reinforcement. Siltherm Panel FP has been specifically developed to deliver space and weight saving fire rated solutions for elevator landing door and fire door systems, combining the requirements and standards based on EN 81-58. Siltherm Panel FP is a real alternative where a thin, lightweight insulation solution with a Class A Fire Rating is required.

Features and Benefits

Microporous insulation offers considerable and measurable advantages in terms of thermal management, energy efficiency and reduction of carbon footprint; the integration of microporous insulation in your heat containment systems and equipment provides a set of unique and measurable assets which impact on environmental, operational, social, economic and strategic levels like no other insulation can.

- Optimised density and formulation to provide the required thermal performance and handling characteristics.
- Wide range of sizes available to order.
- No waste off-cuts due to tailored dimensions.



Typical Applications

Siltherm SiliCore can be used as the core insulation for Vacuum Insulation Panels (VIP) for:

- **Building and Construction Industry:** used to insulate roofs, floors, facades.
- **Temperature controlled packaging:** used to provide insulation for cool transportation of boxes and packets containing drugs, medicines and vaccines.
- **Appliances:** Heating systems, water heaters, boilers, refrigerators, chill cabinets, cold storage units, vending machines, and heated food display units.
- **Oil and Gas:** used to maintain the temperature required for Liquid Natural Gas (LNG) to remain in its liquefied form.
- **Transport (marine, rail, automotive, aerospace):** used to maintain cabin comfort, cold storage areas.



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Technical Specification

CHARACTERISTICS		UNITS	STANDARD	PLUS
Nominal Density		kg/m ³	160-210	160-210
Cold Compressive Strength		kPa	145	145
Thermal Conductivity	<1 mbar Ambient pressure	W/m•K	0.0042 0.02	0.0038 0.02
Temperature Stability	Caused by film after vacuum Pure Core	°C	-70°C to +80°C -130°C to +85°C	-70°C to +80°C -130°C to +85°C
Thermal Shock Resistance		Insensitive to heat and cold shock at given temperatures		
Humidity Stability	Sensitive to water and moisture (before vacuum packing)	%	0-60	0-60

Standard Dimensions and Tolerances

CHARACTERISTICS	SIZES (mm)	TOLERANCES (mm)
Standard Sizes (Length x Width) ¹	Customized	±3
Maximum Sizes (Length x Width)	1200 x 650	
Standard Thicknesses	5-50	±1
Standard Geometry ¹	Rectangular	

¹ Special design and geometries are available on demand

For environmental, health & safety information, please refer to our Material Safety Data Sheet.



ISO9001:2015
CERTIFIED

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