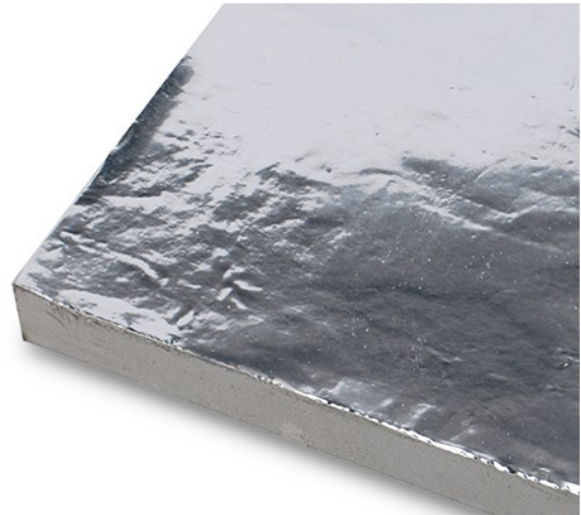


ISOCON



Characteristics

ISOCON is an insulating material based on a microporous core with a very low thermal conductivity, which means that it has very high thermal insulation properties. Specially designed for building applications, such as, cavity wall insulation, flat roofs or doors and windows and more. It is based mainly in pyrogenic silica, opacifiers to reduce radiation, and fibres as reinforcers. In order to make it easy to manipulate, the core is glued with high temperature adhesive (1000°C) and wrapped with aluminium foil. The foil also prevents the entering of liquids in the panel.



Applications

- Thermal insulation
- Passive fire protection



Sectors

- Construction and Industry



Geometry

Standard dimensions

- 1100mm x 700mm x e
- 1020mm x 615mm x e

Standard thicknesses

- 5mm, 7mm, 10mm, 15mm, 20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm.



Tolerances

	Width (mm)	Length (mm)
STD (1100x700)	Max 715	Max 1120
STD (1020x615)	Max 630	Max 1040
Customized size	±3	±3
	Thickness (mm)	Tolerances
STD	5-10	±0,5
	10,1-30	±0,8
	30,1-50	±1,5



Safety instructions

The materials used are not dangerous for humans or environment following the European directive UE2006/1907/EEC. The fibres used in the core have a diameter >3µm.



Core composition (% depending on the applications)

- SiO₂ (NON CRYSTALLINE) approx. 50-90%
- SiC approx. 8-49%
- Others approx. 1-6%



Lifespan

If properly stored, the lifespan of the panel has no expiring date. It is recommended to store the panel in a dry environment.



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The user is responsible for determining the suitability of Isoleika products for each application.

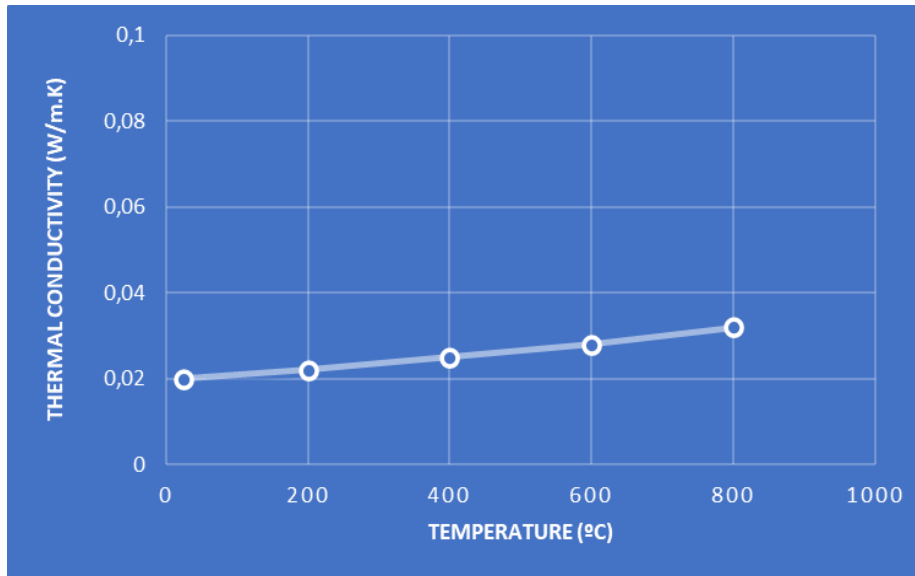


Product data

Colour		grey
Density	kg/m ³	270-320
Non combustibility test		classification A1
Compressive strength at 10% (ASTM C 165)	kPa	>360
Thermal conductivity (ISO 8302, ASTM C177)	W/m.K	0,020
Shrinkage (ISO2477)	one side 12h @1000°C	<0,5
	At all sides 24h @1000°C	<3



Thermal conductivity graph (ISO 8302, ASTM C177)



Excellent thermal insulation



Non-combustible



Purely mineral product



Recyclable



Totally innocuous material



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