

Data Sheet

ISOCLOTH

Characteristics

ISO-CLOTH is an insulating material based on a microporous core with a very low thermal conductivity, which means that it has very high insulation properties.

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 wrapped with high temperature glass fabric.

Application

- Heat-treatment systems for metals
- Heat-treatment systems for glass and ceramics
- Aluminium industry (launders, holding & smelter furnace,...)
- Concrete plants
- Fire protection
- Petrochemical industry

Geometry

Standard dimensions

- Maximum 1200 x 600 mm
- Minimum 300 x 200 mm
- Standard 1000 x 500 mm

Standard thickness

- 5mm, 10mm, 15mm, 20mm, 25mm.

Tolerances

	Width (mm)	Length (mm)
Customized size	±4	±4
	Thickness (mm)	Tolerances
STD	7-10	±0,5
	10,1-25	±0,8
	30,1-40	±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

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

Different coverings available

ISOCLOTH (Hydrophobic)

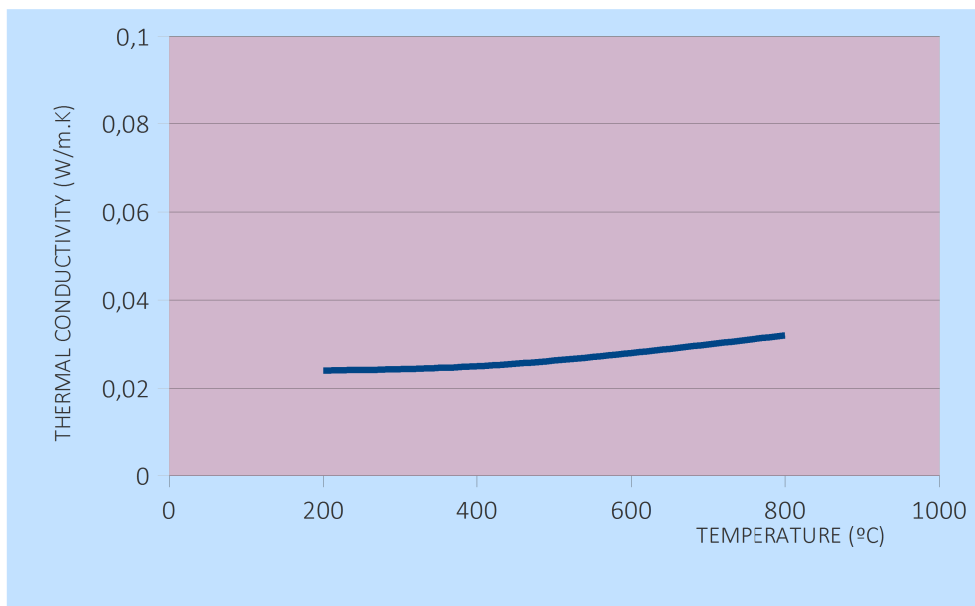
Lifespan

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

Product data

Color		white
Maximum working temperature	°C	1050
Density	kg/m ³	270-320
Non combustibility test		Classification A1
Compressive strength at 10% (ASTM C 165)	MPa	>0,32
Thermal conductivity (ISO 8302, ASTM C177)		
a 200°C	W/m.K	0,024
a 400°C	W/m.K	0,025
a 600°C	W/m.K	0,028
a 800°C	W/m.K	0,032
Specific Heat Capacity		
a 200°C	kJ/kg.K	0,92
a 400°C	kJ/kg.K	1,00
a 600°C	kJ/kg.K	1,04
a 800°C	kJ/kg.K	1,08
Shrinkage (ISO2477)		
one side 12h @1000°C	%	<0,5
At all sides 24h @1000°C	%	<3

Thermal conductivity Graph (ISO 8302, ASTM C177)



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