

Data Sheet

ISOTUBE



Characteristics

ISOTUBE 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.

Being shaped in moulded pipe sections, its main application is piping insulation.

In addition, it can be delivered with different coatings, which mainly make the isotube easier to handle.

Properties and advantages

- Low thermal conductivity
- High thermal stability
- Non combustible
- Quick, clean and easy to install

Typical applications

- Piping insulation
- CSP (Concentrated Solar Power)
- Fire protection
- Petrochemical industry

Different coverings available

The shells could be covered with different coverings, making them clean and easy to handle.

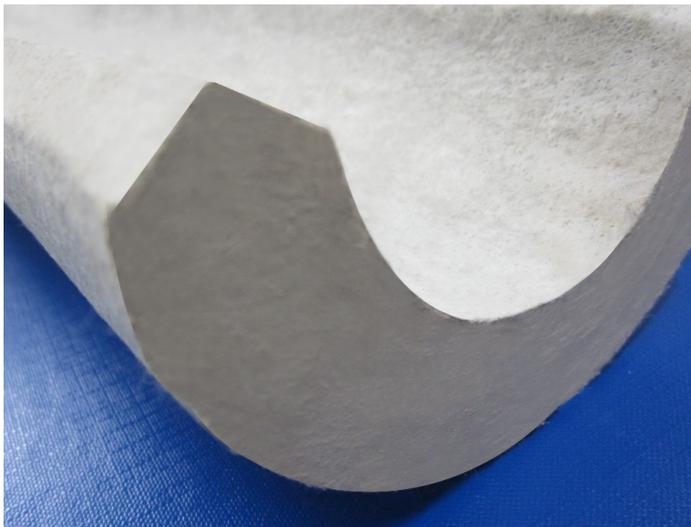
Coverings with glass cloth, fibre glass fleece, and aluminium.

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 $>3\mu\text{m}$.

100% IRUTILE FREE!



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Technical data

Color		white	
Maximum working temperature	°C	1050	
Density	kg/m ³	320	
Non combustibility test		Clasificación A1	
Compressive strength at 10% (ASTM C 165)	MPa	0,32	
Thermal conductivity ((ASTM C177)	200°C	W/m.K	0,022
	400°C	W/m.K	0,024
	600°C	W/m.K	0,029
	800°C	W/m.K	0,034
Specific Heat Capacity	200°C	kJ/kg.K	0,92
	400°C	kJ/kg.K	1,00
	600°C	kJ/kg.K	1,04
	800°C	kJ/kg.K	1,08
Shrinkage (ISO2477)	one side 12h @1000°C	%	<0,5
	At all sides 24h @1000°C	%	<3

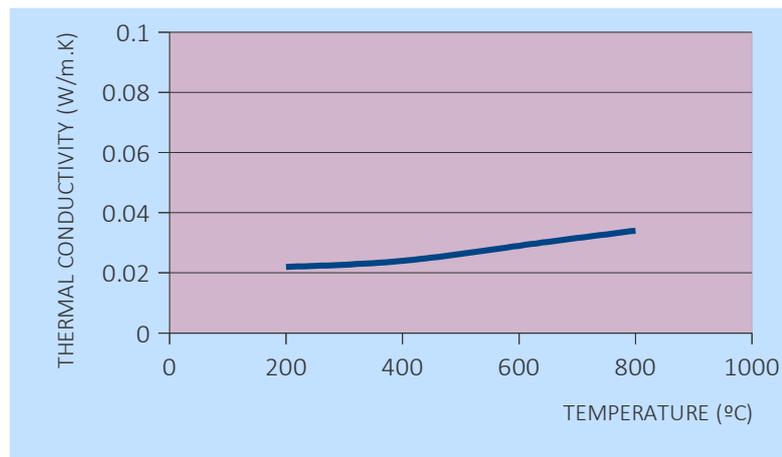

Product dimensions

Pipe		Iso-Tube	
Ø Nominal (mm)	Ø Outer (mm)	Ø int (mm)	Shells per circunf / linear meter
50 (2")	60	62	2 / 4
65 (2 ½ ")	76	78	2 / 4
80 (3")	89	91	2 / 4

Combining multiple layers of ISO-TUBE is not always possible. .
 Please contact Isoleika for more information.


Product tolerances

Standard lerngh	500mm	-1/+10mm
Standard thickness	25mm	-1/+2mm


Thermal conductivity graph


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