

TR 1050 ironflex

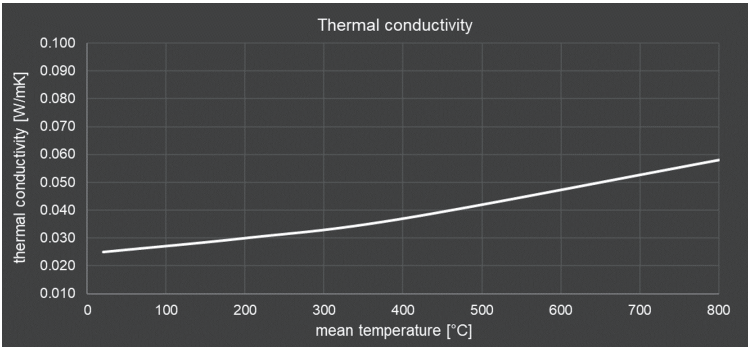
TR 1050 ironflex panels are specially designed for iron & steel industry and other hot metal applications. The flexible microporous insulation panels have very good thermal and mechanical properties. The boards are typically thin (3 -15 mm), available in different covering types.



Technical data

Thermal conductivity

20 °C / 68 °F	0.025 W/mK
200 °C / 392 °F	0.030 W/mK
400 °C / 752 °F	0.037 W/mK
800 °C / 1472 °F	0.058 W/mK



Shrinkage

at 900 °C / 1652 °F all sides 12 h	confirmed	< 1.0 %
at 1000°C / 1832°F all sides 24 h	typical	<2 %
at 1000°C / 1832°F one side 12 h ¹		0.5 %

Further physical parameters

maximum application temperature	1050 °C / 1922 °F		
specific heat capacity	0.8 - 1.0 KJ / Kg K		
electric resistance	> 2000 MΩ		
thermal shock resistance	high		
compressive strength*	400 °C	5 % deformation/ 0.33 MPa	10 % deformation/ 0.96 MPa
	800 °C	5 % deformation/ 0.42 MPa	10 % deformation/ 1.18 MPa
fire protection class	A1 (DIN ISO 4102)		
colour	white		

* Measured by German institute.

Available formats

dimensions	500 x 400 mm
thickness	3 - 15 mm

Other thickness and dimensions are available on request. Tolerances according to: ISO 2768 -c for length and width, -v for thickness.

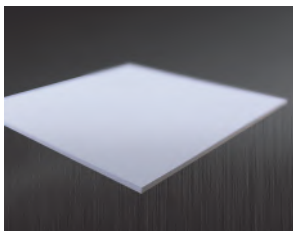
¹ measured at 25 mm thickness insulated towards room temperature. The shrinkage value refers to the surface on the hot side. This value represents common usage conditions of an insulation material.

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Available in the following options:

Cutting

We cut to your required rectangular dimensions.



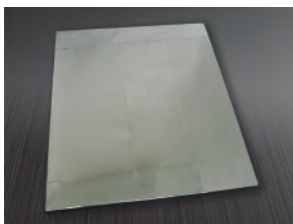
Packed in shrink foil

The panels are packed in a thin POF-shrink foil. This option allows a dust-free handling, and increases the stability of the board.



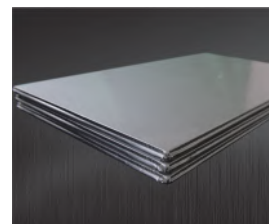
Aluminum wrapping

The boards are wrapped in aluminum from all sides for a dust free handling and an increased flexural strength.



Aluminum foil bag

The aluminum foil bag can also be used for packing the panels to keep it strong.



Technical limitation

Water and other liquids will irreversibly destroy the microporous structure and as a result the insulation performance of the material.

Declaration of non-hazardousness

According to the regulation of the European union 2006/1907/EG this material is classified as non-hazardous. The used fibers are not respirable as defined by WHO.