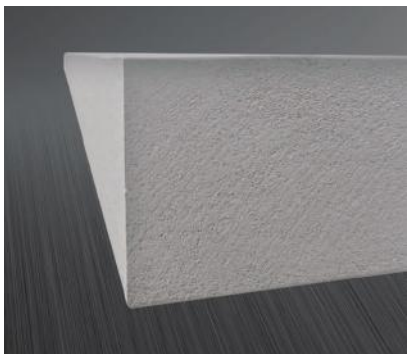
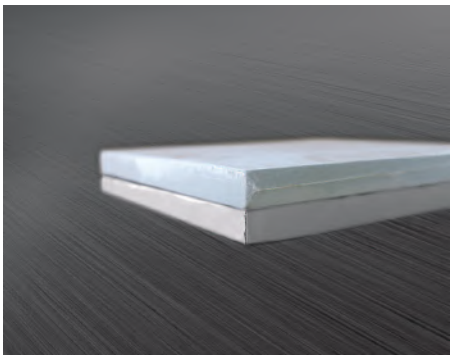
TR 950 classic

Introduction

TR 950 classic is a board shape insulation material, which offers best lambda especially at higher temperatures. The homogeny distribution of the ingredients is the market benchmark and provides an equal temperature distribution over the whole surface area.

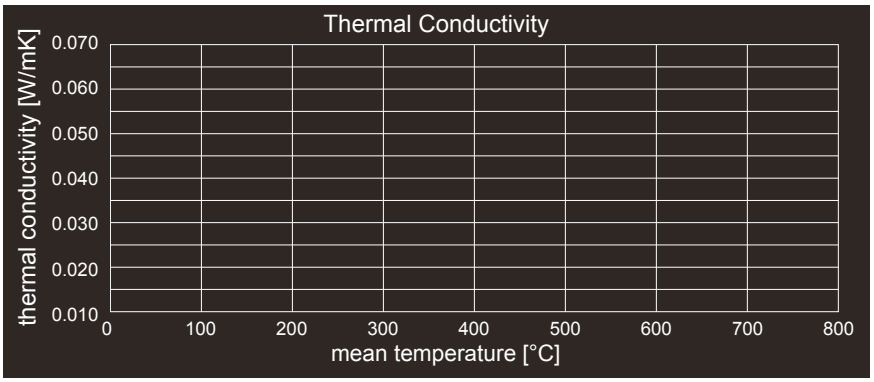




Technical data

Thermal conductivity

20 °C / 68 °F	0.020 W/mK
200 °C / 392 °F	0.023 W/mK
400 °C / 752 °F	0.027 W/mk
800 °C / 1472 °F	0.042 W/mK



Shrinkage

at 900 °C / 1652 °F all sides 12 h	confirmed	below 2.0 %
	typical	1.5 %
at 1000°C / 1832°F one side 12 h [1]		0.5 %

Further physical parameters

maximum application temperature	950 °C / 1742 °F
flexural strength	0.11 N/mm², MPa
specific heat capacity	0.8 - 1.0 KJ / kg K
electric resistance	> 2000 MΩ
thermal shock resistance	high
fire protection class	A1 (DIN ISO 4102)
colour	grey

Available formates

dimensions	1020 x 615 mm
thickness	5 - 50 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.

TR 950 classic

Available in the following options:

Raw board (default)

The boards are as they come out of the press. Therefore the sides are in raw condition and have a slight "belly" in width and length of approximately 2 mm.

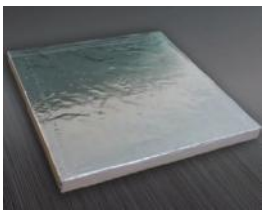
Cutting

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. Your advantage is a cleaner and smoother installation with less breakage. The foil provides a certain protection against water. During the initial heating of the system the POF foil will evaporate. We offer this option for thicknesses above 15 mm.

Aluminum lamination



This option offers same benefits as the aluminum wrapped version. In addition the aluminum of the 2 faces are glued with an mineral glue to the board, so the aluminum layer will stick almost on the entire surface so the appearance of the board is sound and strong. On the other hand the mineral glue slightly reduces the performance in terms of shrinkage at high temperatures.

Aluminum wrapping

The boards are wrapped in aluminum from all sides for a dust free handling and an increased flexural strength. The surface and the edges are protected by the aluminum foil, so edge break out is basically eliminated. For systems which contain a certain amount of water which is bound in concrete or mortar, this lamination offers a water and vapor barrier for the initial heat up. A damage of the microporous material due to condensing water is therefore significantly reduced. To cover the edges we use an aluminum tape with organic glue. The glue will evaporate and create smoke and soot when the system is initially fired.

Net shape pressing

For bigger quantities we offer customized molds to reduce cut-off loses.

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.