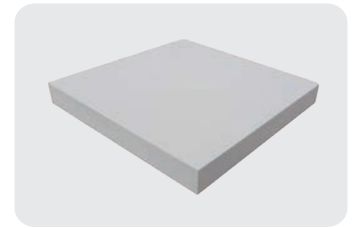


Introduction

TT 3490 classic is a board-shaped microporous insulation material widely approved for insulation applications. With a continuous application temperature of up to 950°C and a peak temperature of up to 1200°C, it offers exceptional thermal performance. Its excellent handling and machining properties, combined with an extremely low thermal conductivity, enable superior insulation with reduced thickness. This allows for equipment design that maximizes energy efficiency, optimizes space utilization, and reduces overall weight.

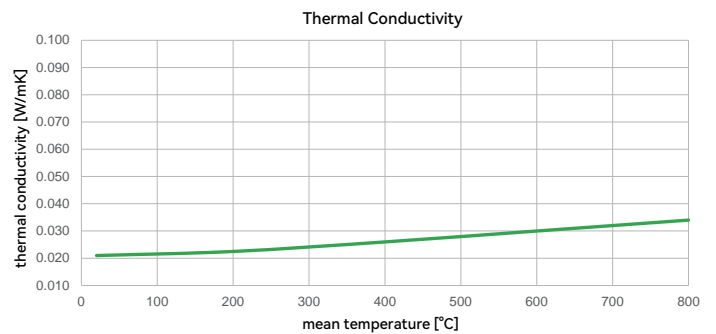


Technical Data

Thermal Conductivity

20 °C / 68 °F	0.021 W/m K
200 °C / 392 °F	0.023 W/m K
400 °C / 752 °F	0.026 W/m K
600 °C / 1112 °F	0.030 W/m K
800 °C / 1472 °F	0.034 W/m K

Measured by guarded hot plate method, DIN EN 12667, ISO 8302, ASTM C177.



Other Technical Parameters

classification temperature	1000 °C / 1832 °F
continuous application temperature	950 °C / 1742 °F
peak temperature (for fire protection applications up to 4h)	1200 °C / 2192 °F
shrinkage: at 1000 °C / 1832 °F one side 12 h ¹	< 0.5 %
shrinkage: at 950 °C / 1742 °F all sides 12 h	< 2.0 %
nominal density ²	270 kg/m ³
compressive strength at 10 % deformation	≥ 0.27 MPa
microporous core colour	grey

Chemical Composition

SiO ₂	60-80 %
SiC	20-40 %
Others	1-5 %

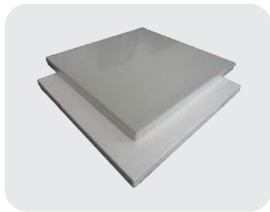
Available Sizes

dimensions	1000 x 600 mm, 1000 x 1000 mm, 1320 x 1000 mm, more sizes on request
thickness	3-50 mm, more sizes on request
tolerances	length and width: ± 2 mm; thickness (T): T ≤ 30 mm, ± 1 mm; T > 30 mm, ± 1.5 mm

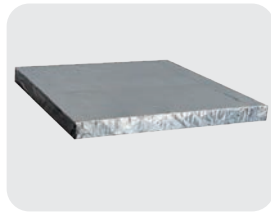
1. measured at 25 mm thickness insulated towards room temperature. The shrinkage value refers to the surface on the hot side. This value represents common usage conditions of an insulation material.

2. 25 mm thickness board, tolerance ± 5 %.

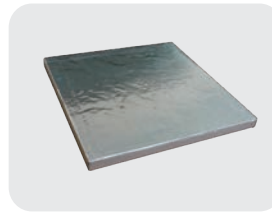
Surface Covering Options



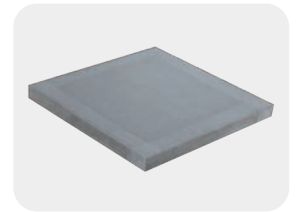
POF wrapped



Aluminium foil wrapped



Aluminium foil laminated



Glass tissue laminated

The boards can be naked, wrapped or laminated with different coverings depending on the application. More coverings are available on request.

Other Customized Services

Cutting and Machinery Service

We provide inhouse cutting and machinery service for your customized shapes or dimensions. Our boards can be cut, shaped, sawn, drilled and punched with conventional woodworking hand tools and automatic machinery and fixed with other insulators using glue, retaining pins and anchors.

Net Shape Pressing

We provide customized molds for larger quantities to improve cut-off losses.

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/EC this material is classified as non-hazardous. The used fibers are not respirable as defined by WHO.



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