

Introduction

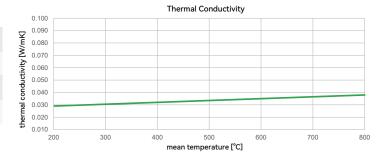
TT 1100A classic is an alumina-based microporous insulation board with excellent thermal insulation performance, making it ideal for reducing temperatures in limited spaces. It has good mechanical properties and comes in different coverings for improved handling and durability.



Technical Data

Thermal Conductivity

200 °C / 392 °F	0.029 W/m K
400 °C / 752 °F	0.032 W/m K
600 °C / 1112 °F	0.035 W/m K
800 °C / 1472 °F	0.038 W/m K



Other Technical Parameters

classification temperature	1100 °C / 2012 °F
continuous application temperature	1050 °C / 1922 °F
shrinkage: at 1100 °C / 2012 °F one side 12 h ¹	< 0.5 %
shrinkage: at 1050 °C / 1922 °F all sides 12 h	< 2.0 %
nominal density ²	350 kg/m³
compressive strength at 10 % deformation	≥ 0.27 MPa
nominal diameter of reinforcement fibre ³	5-7 μm
microporous core colour	grey

Chemical Composition

Al_2O_3	60-80 %
SiC	20-40 %
Others	1-5 %

Available Sizes

dimensions	1000×600 mm, 1000×1000 mm, 1320×1000 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

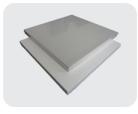
^{1.} Measured at 25 mm thickness insulated towards room temperature. The shrinkage value refers to the surface on the hot side. This value represents common usage conditions of an insulation material.

^{2. 25} mm thickness board, tolerance ± 5 %.

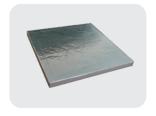
^{3.} The World Health Organization (WHO) defines a minimal diameter for respirable fibres of 3 μ m.

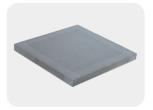


Surface Covering Options









POF wrapped

Aluminium foil wrapped

Aluminium foil laminated

Glass tissue laminated

The boards can be naked, wrapped or laminated with different coverings depending on your 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 quatities 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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