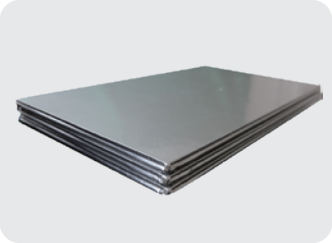
# TT 1000 flex

## Introduction



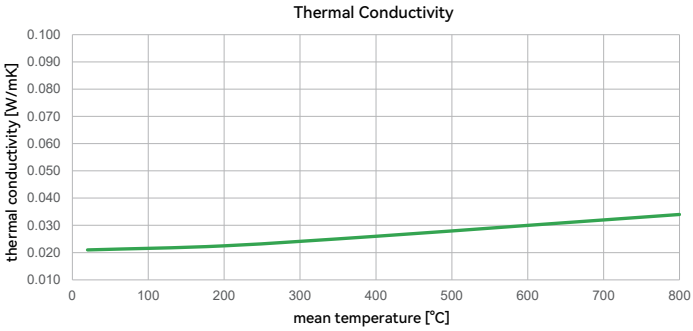
TT 1000 flex is a flexible and compact microporous insulation board designed for applications requiring low thermal conductivity up to their application temperature. The boards are usually thin, packed in a strong PE bag, and evacuated. As a result, the panels can be bent around cylindrical objects.

The PE bag protects the microporous board from water during the installation process. Upon first heating, the PE bag will be destroyed and evaporated like other organic materials in the system.

## 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 |




### Other Technical Parameters

| | |
|---|---|
| classification temperature | 1000 °C / 1832 °F |
| continuous application temperature | 950 °C / 1742 °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 | 290 kg/m³ |
| microporous core colour | grey |

### Available Sizes

| | |
|---|---|
| dimensions | 1000 x 600 mm, 500 x 400 mm, more sizes on request |
| thickness | 3-15 mm |
| tolerances | length and width: ± 2 mm; thickness (T): ± 1 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.

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## Gooved and Flexing

This option allows a dust-free handling and provides a certain protection against water. It allows an easy and convenient application due to self-bending under a light vacuum. This product can offer different bending options and along with good thermal insulation properties, it can typically be used for medium and big diameter pipes or pipes in pipe systems. It can be offered as one piece or more sections, depending on customer application requirement.

## 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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