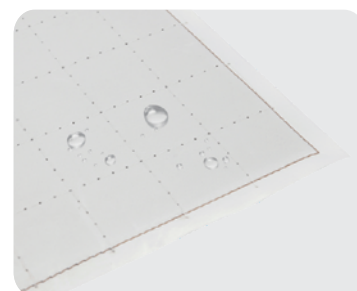


## Introduction

TT 1000 HY sflex is a flexible, custom-made insulation blanket with a water-repellent microporous core. It is an ideal solution for applications where the presence of liquids can be expected.

TT 1000 HY sflex also features good handling and cutting properties and provides flexible insulation for complex geometries. It is widely used when a large temperature reduction is required within limited spaces.

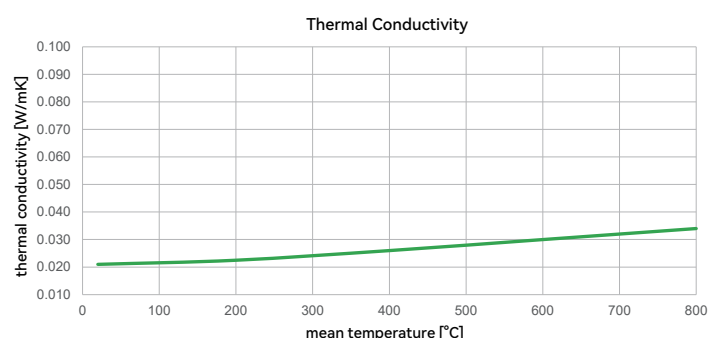
The stitching can be one-directional or two-directional. Our blankets can be offered both as sheets and rolls.



## Technical Data<sup>1</sup>

### 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           |
| peak temperature (for fire protection applications up to 4h) | 1200 °C / 2192 °F          |
| fire protection class  | A1                         |
| shrinkage: at 1000 °C / 1832 °F one side 12 h <sup>2</sup>   | < 0.5 %                    |
| shrinkage: at 950 °C / 1742 °F all sides 12 h                | < 2.0 %                    |
| nominal density (core panel)                                 | 250 kg/m <sup>3</sup>      |
| standard covering  | hydrophobic E-glass fabric |
| microporous core colour                                      | grey                       |

### Available Sizes

|                      |   |
|----------------------|---|
| dimensions (sheets)  | 1000 x 600 mm, 1200 x 600 mm, 1200 x 900 mm, more sizes on request (up to 1600 x 1200 mm) |
| dimensions (rolls)   | 9000 x 600 mm, 9000 x 1200 mm, more sizes on request                                      |
| thickness            | 3-10 mm, more sizes on request  |
| tolerances           | length and width: ± 5 mm, thickness: ± 1 mm   |
| stitching pitch size | 25 x 25 mm, 50 x 50 mm, more sizes on request   |

1. the technical data is measured for flat panel without stitching and envelope.

2. 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.

## Technical Limitation

Long-term continuous soaking in water or other liquids will damage the insulation performance of the material at some extent.

We are using an organic sewing thread with a maximum application temperature of 260°C. Other sewing threads are available on request. The sewing grid can be customized within a certain range.

## 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.



unicorn-insulations.com  
info@unicorn-insulations.com

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