



### Introduction

TT 1100A sflex is a flexible, custom-made microporous insulation blanket for 3D shapes. It features good handling and cutting properties and outstanding insulation performance in limited thickness.

The microporous core is covered from all sides with glass cloth, which is seamed and quilted to achieve flexibility without damaging the microporous core. This process makes the blanket clean and easy to handle, providing flexible insulation in limited spaces.

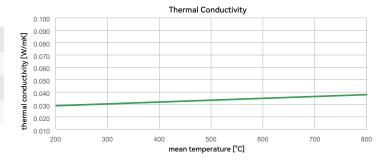
The stitching can be one-directional or two-directional. Our blankets can be offered both as sheets and rolls.



# Technical Data<sup>1</sup>

# Thermal Conductivity

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	< 0.5 %
shrinkage: at 1050 °C / 1922 °F all sides 12 h	< 2.0 %
nominal density (core panel)	320 kg/m³
reinforcement fibre <sup>2</sup>	> 6 μm
microporous core colour	grey

#### **Available Sizes**

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

<sup>1.</sup> The technical data is measured for flat panel without stitching and envelope.

<sup>2.</sup> According to best practice guidelines.





# **Surface Covering Options**

# Hydrophobic E-glass Fabric (Standard Covering)

Maximum application temperature: 500 - 550 °C

The fabric enhances the microporous insulation board's functionality by providing dustproof protection, improving handleability and installation, increasing mechanical properties, enhancing appearance, and improving cutting performance. Furthermore, its hydrophobic property offers water repellency to the exterior of the microporous panels.

\* Other fabric types are available for request.

### **High Silica Fabric**

Maximum application temperature: 1000-1100 °C This fabric provides a dustproof and protective function to the microporous insulation board under ultra-high temperature conditions and makes it easy to handle and install the panel.

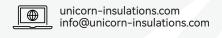
#### **Technical Limitation**

Water and other liquids will irreversibly destroy the microporous structure and as a result the insulation performance of the material.

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.







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