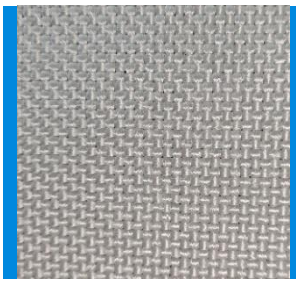
# TECHNICAL DATA SHEET

Version: 1 - 19.08.2025



# 4AC.102
# Fabric – Glass – Vermiculite

## Overview

E-glass fibre is known for its resistance to high temperatures and its electrical insulation properties. This fibre is rot-proof, can resist the main chemical agents and remains dimensionally stable, even with strong variations in humidity and temperature. Its performances can be enhanced by a vermiculite coating. This natural mineral is used as a coating on textiles. It enhances their resistance to abrasion and their ability to support peak temperatures.

## Technical Data

| Properties | | Unit | Value | | |
|---|---|---|---|---|---|
| **Material** | | | Glass | | |
| **Composition** | | **%** | $SiO_2$: 52-56<br>CaO: 16-25<br>$Al_2O_3$: 12-16 | $B_2O_3$: 5-10<br>MgO: ≤ 5<br>$Na_2O+K_2O$: ≤ 1 | $F_2$: ≤ 1<br>$Fe_2O_3$: ≤ 0.4<br>$TO_2$: ≤ 0.8 |
| **Temperature** | **Operating** | **°C** | 550 | | |
| | **Peak** | | 815 | | |

## General Data

| Material | Thermal resistivity | Mechanical strength | Chemical resistance |
|---|---|---|---|
| **Glass** | ★★★☆☆ | ★★★☆☆ | ★★★★☆<br>Except for phosphoric and hydrofluoric acid |

## Applications

- Gasket
- Compensators
- Heat reflectors
- Curtains
- Blankets
- Protective clothing

# Vermiculite coated glass fabric

## Available fabrics

| Thickness (mm) / Basis weight (g/m²) | 0.65 ± 0.05 | 1 ± 0.02 | 1.25 ± 0.02 | 1.6 ± 0.02 |
|---|---|---|---|---|
| 680 | 1TEX002218<br>8 harness satin | 1TEX002230<br>Plain | | |
| 1,065 | | | 1TEX002196<br>Plain | |
| 1,180 | | | | 1TEX002182<br>Panama |

*The physical properties in this documentation are provided for informational purposes only and do not constitute a contractual commitment. Please contact our technical service if you require any additional information.*