

4AC.101 Fabric – Glass – Silicone

Overview

E-glass fibre is known for its resistance to high temperatures and its electrical insulation properties. This rot-proof fibre can resist the main chemical agents and remains dimensionally stable, even with strong variations in humidity and temperature. Its performances are enhanced by the silicone coating. This polymer derived from silicon is used as a coating on textiles. It improves a product's resistance to weather's conditions, aqueous solutions, weak acids and bases.

Silicone coated fabrics should be able to withstand temperatures up to 250 °C.

Technical Data

Properties	Unit	Value		
Material		Glass		
Composition	%	SiO ₂ : 52-56 CaO: 16-25 Al ₂ O ₃ : 12-16	B ₂ O ₃ : 5-10 MgO: ≤ 5 Na ₂ O+K ₂ O: ≤ 1	F ₂ : ≤ 1 Fe ₂ O ₃ : ≤ 0.4 TO ₂ : ≤ 0.8
Operating temperature	°C	250		

General Data

Material	Thermal resistivity	Mechanical strength	Chemical resistance
Glass	★★★★★	★★★★★	★★★★★ Except for phosphoric and hydrofluoric acid

Applications

- Thermal compensators
- Petrochemical industry
- Curtains for wrapping machine

**Silicone coated glass fabric****Available fabrics**

Basis weight (g/m ²) \ Thickness (mm)	0.43	0.5 ± 0.05
	1TEX002715 Broken twill	1TEX001783 Herringbone
550		
585		

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