



4AC.100 Fabric – Glass – Aluminium

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 can be enhanced by an aluminium coating on one or both sides of the fabric. This treatment reinforces its resistance to radiant heat, flames and splashes of molten metal.

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
Resistance to radiant heat	°C	1,650		
Contact temperature		Between 100 and 200		

General Data

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



Aluminium coated glass fabric

Available fabrics

Thickness (mm)	0.2 ± 0.02	0.4 ± 0.02	0.5 ± 0.02	1.1 ± 0.02	1.3 ± 0.02	1.35 ± 0.02
Basis weight (g/m ²)						
250	1TEX020057 Plain (Aluminium lamination on one side)					
270	1TEX020715 Plain (Aluminium lamination on one side)					
450 ± 10		1TEX004876 4 harness satin (Al film on one side)				
470 ± 10		1TEX022664 Broken twill 1/3 (PES film coating on one side)				
520		1TEX0014304 Broken twill (Al film 20µm on one side)				
680		1TEX002232 Plain (PU on one side and Al film on the other)				
1,000				1TEX001784 Plain (Al film 15µm on one side)		
1,080 ± 5					1TEX002189 Plain (Al film 10µm on one side)	1TEX002192 Plain (Aluminised PU coating on one side)



Aluminium coated glass fabric

Thickness (mm)	1.2 ± 0.02	1.35 ± 0.02	1.4 ± 0.02	1.45 ± 0.02	1.6 ± 0.02
Basis weight (g/m ²)	1.2 ± 0.02	1.35 ± 0.02	1.4 ± 0.02	1.45 ± 0.02	1.6 ± 0.02
1,100 ± 10		1TEX002190 Plain (Al film 20µm on one side)	1TEX002204 Panama (Aluminised PU coating on both sides)		
1,130				1TEX002193 Plain (Aluminised PU coating on both sides)	
1,160	1TEX002200 Cross twill (Aluminised PU coating on one side)				
1,220					1TEX002187 Panama (Aluminised PU coating on one side)

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