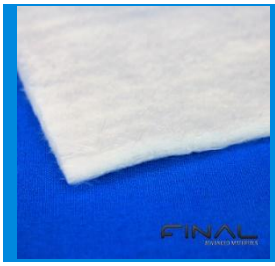

4AC.020
Felt – Glass - Untreated

Overview

E-glass fibre is valued for its resistance to high temperatures and its electrical insulation properties. This rot-proof material can resist to chemical agents and remains stable against humidity and temperature variations. While glass filaments with a diameter of less than 3 µm are respirable and can build up in the respiratory system, filaments bigger than 9 µm can irritate the skin. To prevent these risks, only fibreglass products made of filaments between 6 and 9 µm are used.

Needle felts present excellent mechanical, chemical and dielectric properties.

Technical Data

Properties		Unit	Value		
Material			E-glass		
Composition		%	SiO_2: 52-56 CaO: 16-25 Al_2O_3: 12-16	B_2O_3: 5-10 MgO: ≤ 5 Na_2O+K_2O: ≤ 1	F_2: ≤ 1 Fe_2O_3: ≤ 0.4 TO_2: ≤ 0.8
Temperature	Operating	°C	550		
	Peak		700		

General Data

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

Glass felt

Available felts

Thickness (mm) \ Density (kg/m³)	100	120	130	150
3		1TEX002607		
4	1TEX008252	1TEX002713		
5	1TEX002095	1TEX002068		1TEX002103
6			1TEX002712	
7				1TEX002071
8			1TEX002107	
10	1TEX002111		1TEX002115	1TEX002123
17	1TEX002127			
20			1TEX002793	1TEX002143
25			1TEX002147	

Thickness (mm) \ Density (kg/m³)	170	180	220	240
9	1TEX002074			
12	1TEX002074			1TEX002139
15	1TEX002135			
20		1TEX002155		
25		1TEX002167	1TEX002089	

The felts are untreated or available with an adhesive, steel or an aluminium finish.

Felt with a pressure-sensitive adhesive film: A pressure-sensitive adhesive film coating enhances the felt's resistance to cutting and protects it against raising.

Felt with a steel film: Steel improves the textile's resistance to wear and crease.

Felt with an aluminium film: When coated on one side of the textile, aluminium reinforces its resistance to radiant heat, flames and splashes of molten metal.

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.