TECHNICAL DATA SHEET

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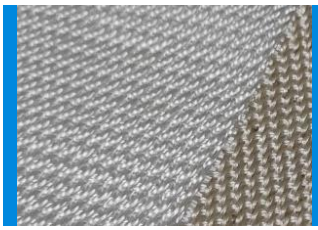

4AC.022
Felt – Silicate - Untreated

Overview

Silicate fibres are inorganic and don't contain toxic substances. Therefore, they are a reliable alternative to ceramic fibres with their good thermal and mechanical properties. With a diameter of 9 µm, these fibres pose no health risk when handling and can withstand high temperatures better than glass or basalt. Without an organic binder, silicate fibre felts are compact, soft and stable during processing thanks to a mechanical bonding of the fibres.

Technical Data

Properties		Unit	Value
Material			Silicate
Composition		**%**	SiO_2: > 93.5 Al_2O_3: 4.0 ± 0.4 NaO_2: < 0.8
Temperature	**Operating**	**°C**	1,100
	Peak		1,200

General Data

Material	Thermal resistivity	Mechanical strength	Chemical resistance
Silicate	★★★★★	★★★★☆	★★★★☆ Except for hydrofluoric acid

Applications

- Thermal insulation
- Soundproofing
- Electrical insulation
- Component for heat protection's assembly

Silicate felt

Available felts

Thickness (mm) \ Density (kg/m³)	130	150	160	170	220	280
3	1TEX008251		1TEX008425			
4			1TEX001966			
5	1TEX001968				1TEX001984	1TEX002044
6			1TEX001970		1TEX001986	
8		1TEX001972			1TEX001988	
10		1TEX001974			1TEX001990	
12	On request	1TEX001976			1TEX001992	
15		1TEX001978			1TEX001994	
20				1TEX001980		
25			1TEX004835	1TEX001982		

The felts are untreated or available with a heat-cleaned finish.

Heat cleaned: During the manufacturing process, the products are coated with a sizing or finishes made of organic polymers, that aid for the textile treatment. During initial heating, these polymers may decompose and/or ignite, releasing potentially hazardous byproducts. The treatment reduces irritation during handling, minimises airborne fibres, and decreases the amount of smoke produced at high temperatures.

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.