



4AC.058 Fabrics – Silicate S94

Overview

Final Advanced Materials offers silicate fibre fabrics with at least 94 % of SiO₂. These products are great thermal insulators for temperatures up to 1,100 °C.

Silicate fibres are inorganic and don't contain toxic substances. Therefore, they are an excellent alternative to ceramic fibres with their strong 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.

Technical Data

Properties		Unit	Value
Material			Silicate
Declination			S94
Composition		%	SiO ₂ : > 94 Al ₂ O ₃ : < 4 Other
Temperature	Operating	°C	1,000
	Peak		1,100

General Data

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

Applications

- Protective cover against metal splashes and sparks
- Protective curtain
- Heat protection
- Component for protective clothing's assembly
- Electrical insulation



Silicate S94 fabric

Available fabrics

Basis weight (g/m ²)	Thickness (mm)	0.6 ± 0.1	1.0 ± 0.15
	600 ± 30	1TEX001965 Satin 1/7 (S94)	
1,100 ± 100			1TEX003591 Satin 1/7 (S94)

The fabrics are untreated or available with a pre-setting or a vermiculite finish.

Pre-setting: Pre-setting stabilises textiles through the action of heat. It can lead to yellowing or a loss of elasticity.

Vermiculite coating: On textiles, vermiculite coating enhances their properties, including their resistance to abrasion, but mainly their resistance to peak temperature.

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