



4AC.103 Felt – Ceramic – Untreated

Overview

Final Advanced Materials offers an innovative continuous polycrystalline ceramic fibre. The metallic oxides in its composition make its transformation into a ceramic textile particularly easy. Its mechanical and thermal performances outperform that of other fibrous materials such as aramid, silica, quartz, or glass.

Our felts are mainly made of alumina (Al₂O₃) at different proportions. They can therefore withstand classification temperatures up to 1,650 °C.

Technical Data

Properties	Unit	Value		
Material		Ceramic		
Composition	%	Al ₂ O ₃ : 97 SiO ₂ : 3 Other: < 0.5	Al ₂ O ₃ : 72 SiO ₂ : 27 Other: < 1.5	
Classification temperature	°C	1,600	1,650	
Density	Kg/m ³	96	100	130

Temperature	Thermal Conductivity (W/mK)		
	96 (Kg/m ³)	100 (Kg/m ³)	130 (Kg/m ³)
600 °C	0.14	-	-
800 °C	0.20	0.20	0.18
1,000 °C	0.29	0.29	0.25
1,200 °C	0.42	0.42	0.36

General Data

Material	Thermal resistivity	Mechanical strength	Chemical resistance
Ceramic	★★★★★	★☆☆☆☆	★★★★★

Applications

- Thermal shield
- Calcining kilns for porcelain



Available felts

Thickness (mm)	Density (Kg/m ³)	96	100	130
	13		1TEX002614	1TEX002610
25		1TEX002615	1TEX002612	1TEX002613

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