

Felt products - RCF and Superwool® AES grades

Product Name	Superwool® HT Felt	Cerafelt®	Cerachrome	K-Shield®	K-Shield LS	K-Shield AG
Color	yellow	cream/tan	blue/green	tan		
Density, pcf (kg.m ³)	4, 6, 8, 10, 12, 18 (64, 96, 128, 160, 192, 288)	4, 6, 8, 10, 12, 18, 24 (64, 96, 128, 160, 192, 288, 385)	6, 8, 12, 24 (96, 128, 160, 385)	6 (96)		
Continuous temperature use limit, °F (°C)	-	2150 (1177)	-	2300 (1260)		
Classification temperature rating, °F (°C)	2372 (1300)	2300 (1260)	2600 (1427)	2400 (1316)		
Fibre Index, %				65 - 70	75 - 80	62 - 70
Tensile Strength, psi (MPa)	-			10 - 20 (0.07 - 0.14)		5 - 10 (0.03 - 0.07)
Fired Tensile Strength, psi (MPa)				5 (0.03)		
Chemical Analysis, % Weight basis after firing						
Alumina, Al ₂ O ₃	-	46	43	51		
Silica, SiO ₂	70 - 80	54		49		
Calcium oxide + Magnesium oxide, CaO + MgO	18 - 25	-				
Loss on ignition, L.O.I.	4 - 12	3 - 9		2 - 5		3
Other	<3 trace					
Thermal Conductivity, BTU•in./hr•ft²•°F (W/m•K), ASTM C 201						
measured density, pcf (kg/m ³)	8 (128)			6 (96)		
mean temperature @ 500°F (260°C)	-	0.46 (0.07)	0.43 (0.06)	0.41 (0.06)	0.39 (0.06)	0.40 (0.56)
@ 572°F (300°C)	0.49 (0.07)	-				
@ 1000°F (538°C)	-	0.94 (0.14)	0.87 (0.13)	0.68 (0.10)	0.65 (0.09)	0.72 (0.10)
@ 1292°F (700°C)	1.39 (0.20)	-				
@ 1500°F (816°C)	-	1.58 (0.23)	1.49 (0.21)	1.15 (0.16)	1.02 (0.15)	1.12 (0.16)
@ 1832°F (1000°C)	2.64 (0.38)	-				
@ 2000°F (1093°C)	-	2.29 (0.33)	2.18 (0.31)	1.82 (0.26)	1.51 (0.22)	1.58 (0.23)
@ 2012°F (1100°C)	3.12 (0.45)	-				

Availability and Packaging

Thickness, in (mm)	Density, pcf (kg/m ³)							Standard Length x Width, in (mm)
	4 (64)	6 (96)	8 (128)	10 (160)	12 (192)	18 (288)	24 (385)	
1/8 (3.13)					•		•	Superwool HT Felt: 48 x 42 (1220 x 1070)
1/4 (6)	∇	∇ •	∇ •	∇ ♦	∇ •	∇	• ♦	
0.39 (10)	∇	∇	∇	∇	∇	∇		Cerafelt and Cerachrome Felt: 96 x 48 (2438 x 1220)
1/2 (13)	∇ •	∇ • ♦	∇ • ♦	∇ •	∇ • ♦	∇	• ♦	
3/4 (19)	∇	∇	∇	∇ •	∇ •	∇		K-Shield Felt, LS, AG: 24 x 300, 24 x 600 (610 x 7620, 610 x 15240) 48 x 300, 48 x 600 (2438 x 7620, 2438 x 15240)
1 (25)	•	∇ • ♦	∇ • ♦	∇ •	∇ •			
1 1/2 (38)	•							
2 (50)	•							

Key: ∇ = Superwool, • = Cerafelt, ♦ = Cerachrome Felt, ▲ = K-Shield Felt, □ = K-Shield Felt LS, ◇ = K-Shield Felt AG

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