

Ceramic Fiber Blanket Specs



Typical Physical Properties

	Commercial Grade	High-Purity Grade	Zirconium Grade
Color	White	White	White
Max. Temp. Use limit	1260 °C (2300 °F)	1260 °C (2300 °F)	1426 °C (2600 °F)
Continuous Use Temp. Limit	800 °C (1472 °F)	1100 °C (2012 °F)	1350 °C (2461 °F)
Average Fiber Diameter	3 – 4.5 microns	3 – 4.5 microns	3 – 4.5 microns
Average Tensile Strength			
4 pcf. Density	5.075 psi	5.075 psi	5.075 psi
6 pcf. Density	7.250 psi	7.250 psi	7.250 psi
8 pcf. density	11.600 psi	11.600 psi	11.600 psi
Rate of Linear Shrinkage			
24 hrs @ 1000 °C (1832 °F)	4%	--	--
24 hrs @ 1100 °C (2012 °F)	--	3%	--
24 hrs @ 1350 °C (2462 °F)	--	--	3%
Thermal Conductivity w/m-k (Btu in./hr.ft ² °F)			
4 pcf. Density @ 400 °C (752 °F)	0.06(.416)	0.06(.416)	--
4 pcf. Density @ 600 °C (1112 °F)	--	--	--
4 pcf. Density @ 800 °C (1472 °F)	0.11(.763)	0.11(.763)	0.11(.763)
4 pcf. Density @ 1000 °C (1832 °F)	--	0.16(1.11)	0.16(1.11)
6 pcf. Density @ 400 °C (752 °F)	0.076(.527)	0.076(.527)	--
6 pcf. Density @ 600 °C (1112 °F)	--	--	--
6 pcf. Density @ 800 °C (1472 °F)	0.14(.971)	0.14(.971)	0.14(.971)
6 pcf. Density @ 1000 °C (1832 °F)	--	0.20(1.39)	0.20(1.39)
8 pcf. Density @ 400 °C (752 °F)	0.09(.624)	0.09(.624)	--
8 pcf. Density @ 600 °C (1112 °F)	--	--	--
8 pcf. Density @ 800 °C (1472 °F)	0.176(1.22)	0.176(1.22)	0.176(1.22)
8 pcf. Density @ 1000 °C (1832 °F)	--	0.22(1.53)	0.22(1.53)

Typical Chemical Composition

	Commercial Grade	High-Purity Grade	Zirconium Grade
Al ₂ O ₃	44%	47-49%	39-40%
SiO ₂	52%	50-52%	38-45%
ZrO ₂	--	--	15-17%
Fe ₂ O ₃	<1.2%	0.2%	0.2%
Na ₂ O ₃ + K ₂ O	≤0.5%	0.2%	0.2%

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