



CERAMATERIALS



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"Your One Stop Shop for Thermal Processing"

Ceramic Fiber Blanket Specs

Typical Physical Properties

	High Purity Grade	Zirconium Grade
Color	White	White
Max Temp. Use Limit	1260°C(2300°F)	1426°C(2600°F)
Continuous Use Temp. Limit	1100°C(2012°F)	1350°C(2461°F)
Average Fiber Diameter	3-4.5 microns	3-4.5 microns
Average Tensile Strength		
4 pcf. Density	5.075 psi	5.075 psi
6 pcf. Density	7.250 psi	7.250 psi
8 pcf. Density	11.600 psi	11.600 psi
Rate of Linear Shrinkage		
24 hrs @ 1000 °C(1832 °F)	--	--
24hrs @1100 °C(2012 °F)	3%	--
24hrs @ 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)	--
4 pcf. Density @ 600 °C(1112 °F)	--	--
4 pcf. Density @ 800 °C(1472 °F)	0.11(0.763)	0.11(0.763)
4 pcf. Density @ 1000 °C(1832 °F)	0.16(1.11)	0.16(1.11)
6 pcf. Density @ 400 °C(752 °F)	0.076(0.527)	--
6 pcf. Density @ 600 °C(1112 °F)	--	--
6 pcf. Density @ 800 °C(1472 °F)	0.14(0.971)	0.14(0.971)
6 pcf. Density @ 1000 °C(1832 °F)	0.20(1.39)	0.20(1.39)
8 pcf. Density @ 400 °C(752 °F)	0.09(0.624)	--
8 pcf. Density @ 600 °C(1112 °F)	--	--
8 pcf. Density @ 800 °C(1472 °F)	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 Properties

Al ₂ O ₃	47-49%	39-40%
SiO ₂	50-52%	38-45%
ZrO ₂	--	15-17%
Fe ₂ O ₃	0.2%	0.2%
NA ₂ O ₃ +K ₂ O	0.2%	0.2%