



# Ceramic Fiber Insulations

## CFI CERAMIC FIBER BLANKETS – Data Sheet

Physical Properties	Commercial Grade - COM	Standard Grade - ST	High Purity Grade - HP	High Alumina Grade - HA	High Zirconia Grade - HZ
Maximum Temperature Rating, °F (°C)	2012 (1100)	2300 (1260)	2300 (1260)	2480 (1360)	2606 (1430)
Continuous Use Limit, °F (°C)	< 1832 (< 1000)	1976 (1050)	2012 (1100)	2192 (1200)	2462 (1350)
Color	White	White	White	White	White
Nominal Density, lb/ft <sup>3</sup> (Kg/m <sup>3</sup> )	6 – 8 (96 – 128)	6 – 8 (96 – 128)	6 – 8 (96 – 128)	6 – 8 (96 – 128)	6 – 8 (96 – 128)
Tensile Strength, psi (Mpa)	6 (0.04)	6 (0.04)	6 (0.04)	6 (0.04)	6 (0.04)
Linear Shrinkage, %, 24 hours	-4 (1652°F)	-4 (1832°F)	-4 (2012°F)	-4 (2282°F)	-4 (2462°F)
Thermal Conductivity, BTU.in/hr.ft <sup>2</sup> .°F (W/m.k)					
@750°F (400°C)	0.63 (.09)	0.63 (.09)	-	-	-
@1112°F (600°C)	-	-	1.12 (.16)	0.84 (.12)	1.12 (.16)
@1472°F (800°C)	1.12 (.16)	1.12 (.16)	1.40 (.20)	-	-
@1832°F (1000°C)	-	-	-	1.40 (.20)	1.40 (.20)
	(8 lb/ft <sup>3</sup> Density)	(8 lb/ft <sup>3</sup> Density)	(8 lb/ft <sup>3</sup> Density)	(8 lb/ft <sup>3</sup> Density)	(8 lb/ft <sup>3</sup> Density)
<b>Chemical Composition</b>					
Al <sub>2</sub> O <sub>3</sub>	40 – 44%	45 – 46%	47 – 49%	52 – 55%	39 – 40%
Al <sub>2</sub> O <sub>3</sub> + SiO <sub>2</sub>	95 – 96	96 – 97	98 – 99	99	83 – 85
ZrO <sub>2</sub>					15-17
Fe <sub>2</sub> O <sub>3</sub>	< 1.2	< 1.0	0.2	0.2	0.2
Na <sub>2</sub> K <sub>2</sub> O	≤ 0.5	≤ 0.5	0.2	0.2	0.2
<b>Available Sizes</b>					
Standard Roll Length	24 ft. (7200mm) Other lengths available upon request				
Standard Roll Width	24 in. (610mm) Other widths available upon request				
Thickness	.5", .75", 1", 1.5", 2.0" (12, 20, 25, 38, 50mm)				