

# CeraMaterials™

Graphite & Ceramic Insulation, CFC, Moly & Alumina



Specs	Standard Grade	High-Purity Grade	Zirconia Grade
Color	White	White	White
Maximum Use Limit	2300°F	2300°F	2552°F
Continuous Use Limit	2012°F	2012°F	2462°F
Density (PCF)	10-13	10-13	10-13
Organic Content (%)	< 5%	< 5%	< 5%
Tensile Strength (PSI)	75-90	30-40	75-90
Break Strength (PSI)	10-15	10-15	10-15
Thermal Conductivity @ 600°C (1112°F) @ 800°C (1472°F) @ 1000°C (1832°F)	W/mk (Btu in./hr/ft <sup>2</sup> °F) 0.08 (0.55) 0.12 (0.80) 0.18 (1.25)	0.08 (0.55) 0.11 (0.75) 0.16 (1.15)	0.08 (0.55) 0.11 (0.76) 0.17 (1.18)

Grade	Standard Grade	Premium Grade	Zirconium Grade
Al <sub>2</sub> O <sub>3</sub>	45-46%	47-49%	39-40%
SiO <sub>2</sub>	51-52%	50-52%	42-43%
ZrO <sub>2</sub>	-	-	15-17%
Fe <sub>2</sub> O <sub>3</sub>	< 1.0%	0.2%	0.2%
K <sub>2</sub> O+Na <sub>2</sub> O	≤ 0.5%	0.2%	0.2%
LOI	< 10%	< 10%	< 10%