

Ceramic Board Properties

INDEX	HP GRADE (Low Density)	HP GRADE (High Density)	HZ GRADE
Temperature	2300°F	2300°F	2600°F
Working Temp.	2100°F	2100°F	2462°F
Melting Point	3200°F	3200°F	3300°F
Color	Off White	Off White	Off White
Available Density (kg/m ³) (lbs/ft ³)	260-290 16-18	350-400 22-25	360-380 20-22
LOI(% by WT)	6 - 7%	6 - 7%	6 - 7%
Dielectric Strength	25.4 volts/mil	25.4 volts/mil	25.4 volts/mil
Shrinkage (%) 24 Hrsat temp. °F	-3 (2012°F)	-3 (2012°F)	-3 (2462°F)
Thermal Conductivity	w/m-k (Btu in./hr/ft ² °F)		
@ 400 °C (752°F)	0.085 (.589)	0.095 (.659)	0.092 (.638)
@ 800 °C (1472°F)	0.132 (.915)	0.154 (1.07)	0.143 (.991)
@ 1000°C(1832°F)	0.180 (1.25)	0.200 (1.39)	0.185 (1.28)
Tensile (Mpa)	0.5 (psi)	0.5 (psi)	0.5 (psi)
Chem Analysis			
Al ₂ O ₃	47-49	47-49	39-40
SiO ₂	50-52	50-52	42-45
ZrO ₂	--	--	15-17
Fe ₂ O ₃	0.2	0.2	0.2
Na ₂ K ₂ O	<0.5	0.2	0.2
Sizes Available Thickness	24"x36; 24x48 1/2, 1", 1.5", 2"	24x36"; 24x48" 1/4", 1/2", 1", 1.5", 2"	24"x36; 24"x48" 1", 1.5", 2"

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CeraMaterials is a major supplier of multiple lines of refractory materials which include ceramic fiber materials, ceramic filters, graphite sheets and foils, fiberglass products, refractories and carbon felt & board products.