



Ceramic Fiber Insulations

ALUMINO SILICATE CERAMIC FIBER BOARDS – 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)	1922 (1050)	2012 (1100)	2192 (1200)	2462 (1350)
Color	White	White	White	White	White
Nominal Density, lb/ft ³ (Kg/m ³)	16 – 20 (260 – 320)	16 – 20 (260 – 320)	16 – 20 (260 – 320)	16 – 20 (260 – 320)	16 – 20 (260 – 320)
Tensile Strength, psi (Mpa)	72 (0.5)	72 (0.5)	72 (0.5)	72 (0.5)	72 (0.5)
@ 10% Deformation					
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 ² .°F (W/m.k)					
@ 750°F (400°C)	0.595 (.085)	0.595 (.085)	0.595 (.085)	0.595 (.085)	0.595 (.085)
@ 1472°F (800°C)	0.924 (.132)	0.924 (.132)	0.924 (.132)	0.924 (.132)	0.924 (.132)
@ 1832°F (1000°C)	1.26 (.180)	1.26 (.180)	1.26 (.180)	1.26 (.180)	1.26 (.180)
	(18 lb/ft ³ Density)	(18 lb/ft ³ Density)	(18 lb/ft ³ Density)	(18 lb/ft ³ Density)	(18 lb/ft ³ Density)
Chemical Composition					
Al ₂ O ₃	40 – 44%	45 – 46%	47 – 49%	52 – 55%	39 – 40%
Al ₂ O ₃ + SiO ₂	95 – 96	96 – 97	98 – 99	99	83 – 85
ZrO ₂					15-17
Fe ₂ O ₃	< 1.2	< 1.0	0.2	0.2	0.2
Na ₂ K ₂ O	≤ 0.5	≤ 0.5	0.2	0.2	0.2
Available Sizes					
L x W	24" x 16" (600 x 400mm) 36" x 24" (900 x 600mm) Or per customer specifications				
Thickness	.25", .5", .75", 1", 1.5", 2.0" (5, 12, 20, 25, 38, 50mm) Or per customer specifications				