



FC 3000 BOARDS AND SHAPES

FC-3000 Board products are manufactured in a wet vacuum forming process containing polycrystalline bulk fibers and binders. FC-3000 Boards are relatively lightweight, self supporting and easy to machine and cut. All boards are planed smooth on both sides with machined edges.

FC-3000 formulas can also be made in sleeves, custom formed to size or CNC'd shapes. These boards are also a great solution for relining many high temperature lab kilns. To support this, FibreCast can provide pre-cut and machined boards to size to match any kiln design.



TECHNICAL COMPARISON

	FC-3000		FC-3000-HD	
Colour	White		White	
Temperature Grade	3000°F (1649°C)		3000°F (1649°C)	
Recommended Operating Temperature	2700°F (1482°C)		2700°F (1482°C)	
Melting Point	3400°F (1871°C)		3400°F (1871°C)	
Density pcf (kg/m3)	9 - 12 (144 - 192)		18 (288)	
MOR PSI Fired 24h @ 2100°F (1149°C)	55		90	
Thermal Conductivity	800°F/427°C	0.63 (0.091)	800°F/427°C	1.18 (0.170)
Temperature	1300°F/705°C	0.90 (0.129)	1300°F/705°C	1.39 (0.200)
	1800°F/983°C	1.3 (0.187)	1800°F/983°C	1.80 (0.259)
(Btu-in/hr ft2 °F W/m.K)	2300°F/1264°C	2.5 (0.361)	2300°F/1264°C	2.53 (0.365)
Shrinkage 24h @ 2700°F (1482°C)	< 4 %		< 4 %	
Loss on Ignition	4 - 6 %		4 - 6 %	
Chemical Composition				
Al ₂ O ₃	71%		81%	
SiO ₃	27%		18%	
ZrO ₂	-			
Other	<1%		<1%	

Note: During the initial heat up of FC Boards and Shapes, a small amount of organic binder will start to burn out at approximately 450°F/232°C. Once this material has burned off, there will be no further off-gassing. Caution should be exercised during this period. Organic free products are available. The recommended operating temperature is determined by irreversible linear change, not the melting point. Store in a manner to minimize airborne dust. Data is based on results of tests conducted under standard conditions. Results are subject to variation. Results are presented as a guide only.