



## Gemcolite® Ceramic Fiber Vacuum Formed Shapes – Series 3000

### Properties & Characteristics

\* The Intermittent use limit and the continuous use limit of Gemcolite® insulation is determined by irreversible linear change criteria, not product melting point.

Typical Physical Properties		
Color	Cream with identifying markings	
* Intermittent Use Limit	-	
* Continuous Use Limit	3000°F (1649°C)	
Melting Point	3400°F (1871°C)	
Nominal Density	14-18 lb./ft <sup>3</sup> (220-290 kg/m <sup>3</sup> )	
Typical Modules of Rupture		
Green	8.0 x 10 <sup>5</sup> N/m <sup>2</sup> (115 lb/ft <sup>2</sup> )	
Fired	3.8 x 10 <sup>5</sup> N/m <sup>2</sup> (55 lb/ft <sup>2</sup> )	
Linear Firing Shrinkage Temperature (soaking heat condition)		
	24 hrs.	168 hrs.
1343° C (2450° F)	1.0%	1.0%
1427° C (2600° F)	1.0%	1.0%
1482° C (2700° F)	1.2%	1.2%
Weight Loss on Ignition	4-6%	
Compressive Strength Stress - As Received		
1.4 x 10 <sup>5</sup> N/m <sup>2</sup> (20 lb/in <sup>2</sup> )	Deformation: 5%	
1.7 x 10 <sup>5</sup> N/m <sup>2</sup> (25 lb/in <sup>2</sup> )	Deformation: 10%	
Availability		
Thickness	25mm, 38mm, 15mm (1", 1.5", 2")	
Sizes	-457mm x 457mm (18" x 18") -610mm x 610mm (24" x 24") -610mm x 1219mm (24" x 48 ")	

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