

**Gemcolite® AS FG26-116000**

**Gemcolite® AS FG26-116000 Material Overview**

FG26-116000 AS **Gemcolite®** is Refractory Specialties Inc's higher temperature insulating fiber board. It uses man-made vitreous alumina-silicate and high purity alumina to provide a higher temperature rated board, with a higher safety range in case of accidental overheating. It is best used in applications with a higher use temperature, up to 2600° F, where there is a chance of overheating beyond 2800° F for short times. FG26-116000 AS resists thermal shock allowing for faster cycle times. RSI's vast forming and machining capabilities allow **Gemcolite®** FG26-116000 AS to be made in a variety of shapes, besides standard boards and blocks, and can be tailor made to customer required shapes and specifications. This material is also easily cut and formed using hand-tools. To answer any questions, or if you have special requirements that aren't covered by this product, call for our expert assistance at (330) 938-2101.

**Gemcolite® AS FG26-116000 Technical Information**

<u>Property</u>	<u>Typical Results</u>
Density	14 to 18 lb/ft <sup>3</sup>
Modulus of Rupture (MOR)	
Supplied	70 lb/in <sup>2</sup>
After First Use	50 lb/in <sup>2</sup>
Compressive Strength (10% Compression)	2800 lb/ft <sup>2</sup>
Maximum Use Temperature	2600° F
Linear Shrinkage	
2200° F	1.00 % (0% when pre-fired)
2600° F	2.50 % (1.5% when pre-fired)
Thermal Conductivity	
500° F	0.47 Btu-in/hr/ft <sup>2</sup> /°F
1000° F	0.67 Btu-in/hr/ft <sup>2</sup> /°F
1500° F	0.98 Btu-in/hr/ft <sup>2</sup> /°F
2000° F	1.41 Btu-in/hr/ft <sup>2</sup> /°F
2500° F	1.92 Btu-in/hr/ft <sup>2</sup> /°F
Typical Chemical Analysis (After Use)	
SiO <sub>2</sub>	49 % (By Weight)
Al <sub>2</sub> O <sub>3</sub>	51 % (By Weight)

**Other Information**

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