

Gemcolite® AASIL FG30-11000

Gemcolite® AASIL FG30-11000 Material Overview

FG30-11000 AASIL **Gemcolite®** is Refractory Specialties Inc's high-alumina, high-temperature insulation board. It uses man-made vitreous alumina to provide a very high temperature board with minimal shrinkage with low density. It is best used in applications with extreme high temperature, up to 3000° F, where minimal board weight is needed, or the application is silica sensitive. FG30-11000 AASIL resists thermal shock allowing for faster cycle times. RSI's vast forming and machining capabilities allow **Gemcolite®** FG30-11000 AASIL 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® AASIL FG30-11000 Technical Information

<u>Property</u>	<u>Typical Results</u>
Density	12 to 16 lb/ft ³
Modulus of Rupture (MOR)	
Supplied	75 lb/in ²
After First Use	50 lb/in ²
Compressive Strength (10% Compression)	2000 lb/ft ²
Maximum Use Temperature	3000° F
Melting Point	3750° F
Linear Shrinkage	
2200° F	1.00 % (0% when pre-fired)
2600° F	2.50 % (1.5% when pre-fired)
Thermal Conductivity	
500° F	0.65 Btu-in/hr/ft ² /°F
1000° F	0.88 Btu-in/hr/ft ² /°F
1500° F	1.10 Btu-in/hr/ft ² /°F
2000° F	1.22 Btu-in/hr/ft ² /°F
2500° F	1.92 Btu-in/hr/ft ² /°F
Typical Chemical Analysis (After Use)	
SiO ₂	10 % (By Weight)
Al ₂ O ₃	90 % (By Weight)

Other Information

The information given herein is based on data believed to be reliable; however, Refractory Specialties, Incorporated makes no expressed or implied warranties as to its accuracy and assumes no liability arising out of its use by others. This information does not constitute a license to use or infringe any patents. Further, the data is found to be typical and should not be construed as product specification/s.

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