

Gemcolite® AZS FG26-110

Gemcolite® AZS FG26-110 Material Overview

FG26-110 AZS **Gemcolite®** is Refractory Specialties Inc's higher temperature insulating fiber board. It uses man-made vitreous alumina-silicate-zirconia fibers with organic and inorganic binders, to generate a relatively strong board with excellent insulating properties at higher temperatures than our standard insulating material. It is best used in applications where there is a higher use temperature than 2300° F, although care must be taken to ensure the application does not exceed 2600° F. FG26-110 AZS resists thermal shock allowing for faster cycle times. RSI's vast forming and machining capabilities allow **Gemcolite®** FG26-110 AZS 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® AZS FG26-110 Technical Information

<u>Property</u>	<u>Typical Results</u>
Density	14 to 18 lb/ft ³
Modulus of Rupture (MOR)	
Supplied	70 lb/in ² , Minimum
After First Use	50 lb/in ² , Minimum
Compressive Strength (10% Compression)	2800 lb/ft ²
Maximum Use Temperature	2600° F
Suggested Operating Temperature	2450° F
Linear Shrinkage	
1800° F	1.50%
2300° F	Less than 4.00 %
Thermal Conductivity	
400° F	0.36 Btu-in/hr/ft ² /°F
800° F	0.56 Btu-in/hr/ft ² /°F
1200° F	1.02 Btu-in/hr/ft ² /°F
1600° F	1.34 Btu-in/hr/ft ² /°F
2000 °F	2.00 Btu-in/hr/ft ² /°F
Typical Chemical Analysis (After Use)	
SiO ₂	55 % (By Weight)
Al ₂ O ₃	28 % (By Weight)
ZrO ₂	17 % (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.