

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

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