

Gemcolite® HP FG23-107

Gemcolite® HP FG23-107 Material Overview

FG23-107 **Gemcolite® HP** is Refractory Specialties Inc's high-purity insulating fiber board. It uses man-made vitreous alumina-silicate fibers, selected with special attention to manufacturing purity and low shot content, with organic and inorganic binders, to generate a relatively strong board with excellent insulating properties while maintaining a low density when compared to insulating brick or monolithic refractory blocks and shapes. FG23-107 resists thermal shock allowing for faster cycle times, and has excellent acoustic absorbing properties. RSI's vast forming and machining capabilities allow **Gemcolite® HP FG23-107** 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® HP FG23-107 Technical Information

<u>Property</u>	<u>Standard (LW)</u>
Density	14 to 18 lb/ft ³
Modulus of Rupture (MOR)	
Supplied	100 lb/in ²
After First Use	50 lb/in ²
Compressive Strength (10% Compression)	4000 lb/ft ²
Maximum Use Temperature	2300° F
Suggested Operating Temperature	2200° F
Melting Point	3260° F
Linear Shrinkage	
1400° F	0.27%
1600° F	1.69%
2000° F	2.93%
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	45 % (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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