

Solu-Lite FG23-105

Solu-Lite FG23-105 Material Overview

FG23-105 Solu-Lite is Refractory Specialties Inc's biosoluble insulation material. It uses man-made vitreous calcium-magnesium-silica chemistry to provide a non-biopersistent insulation material that provides equivalent protection to our FG23-101 formula. It is best used in applications where there is limited ventilation in the end use, or during installation, or where regulations mandate the use of a non-biopersistent insulation material. Solu-Lite FG23-105 resists thermal shock allowing for faster cycle times. RSI's vast forming and machining capabilities allow Solu-Lite FG23-105 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.

Solu-Lite FG23-105 Technical Information

<u>Property</u>	<u>Typical Results</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 Use Temperature	2150° F
Melting Point	2900° 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	76 % (By Weight)
MgO ₂	15 % (By Weight)
Other	9 % (By Weight)

Other Information

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