

C-Cast® FG23-102

C-Cast® FG23-102 Material Overview

FG23-102 **C-Cast®** is Refractory Specialties Inc's chemical and abrasion resistant insulation. It uses special additives to enhance the insulation material's lifespan in environments when alumina-silicate chemistry alone would be rapidly degraded. It is commonly used in combustion chamber applications where the quality and purity of the feed stream is in question. **C-Cast®** also boasts excellent strength and high density. FG23-102 **C-Cast®** resists thermal shock allowing for faster cycle times. RSI's vast forming and machining capabilities allow **C-Cast®** FG23-102 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.

C-Cast® FG23-102 Technical Information

<u>Property</u>	<u>Typical Results</u>
Density	28 to 36 lb/ft ³
Modulus of Rupture (MOR)	
Supplied	150 lb/in ²
After First Use	75 lb/in ²
Compressive Strength (10% Compression)	5000 lb/ft ²
Maximum Use Temperature	2600° F
Suggested Operating Temperature	2350° F
Linear Shrinkage	
2000° F	1.820 %
2300° F	Less than 3.5 %
Thermal Conductivity	
400° F	0.53 Btu-in/hr/ft ² /°F
800° F	0.57 Btu-in/hr/ft ² /°F
1200° F	0.83 Btu-in/hr/ft ² /°F
1600° F	1.10 Btu-in/hr/ft ² /°F
1800° F	1.40 Btu-in/hr/ft ² /°F
Typical Chemical Analysis (After Use)	
SiO ₂	35 % (By Weight)
Al ₂ O ₃	25 % (By Weight)
Other	50% (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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