

Gemcowool® FG21-108

Gemcowool® FG21-108 Material Overview

FG21-108 **Gemcowool®** is Refractory Specialties Inc's low temperature insulation. It uses mineral wool chemistry to provide an insulation material that is effective up to 2100° F. It is best used in applications where the maximum use temperatures exceed the capabilities of fiberglass, but are below 2100° F, allowing this economical alternative to higher temperature materials to be used. It can also be used as a backing board for higher temperature insulation boards, further extending economy to higher temperature applications. FG21-108 **Gemcowool®** resists thermal shock allowing for faster cycle times. RSI's vast forming and machining capabilities allow **Gemcowool®** FG21-108 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.

Gemcowool® FG21-108 Technical Information

<u>Property</u>	<u>Typical Results</u>
Density	12 to 16 lb/ft ³
Modulus of Rupture (MOR)	
Supplied	80 lb/in ²
After First Use	50 lb/in ²
Compressive Strength (10% Compression)	4000 lb/ft ²
Maximum Use Temperature	2100° F
Melting Point	2350° F
Linear Shrinkage	
1900° F	1.50 %
2100° F	3.50 %
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
1800° F	1.60 Btu-in/hr/ft ² /°F
Typical Chemical Analysis (After Use)	
SiO ₂	40 % (By Weight)
Al ₂ O ₃	15 % (By Weight)
CaO	20 % (By Weight)
MgO	4% (By Weight)
Fe ₂ O ₃	5% (By Weight)
Other	16% (By Weight)

Other Information

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