

Refractory Blanket

Refractory Blanket Material Overview

Refractory Blanket is Refractory Specialties Inc's Flexible insulation material. It combines the high temperature ratings of **Gemcolite®** insulation boards, and the flexibility and ease of use of a fiberglass type mat. Refractory Blanket is available in standard **Gemcolite®** chemistry, and a variety of higher temperature rated chemistries. It can be cut and placed in the field as needed, or it can be die-cut at RSI to any shape the customer requires. 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.

Refractory Blanket Technical Information

<u>Property</u>	<u>4, 6, 8-LB Blanket</u>	<u>AZS Blanket</u>	<u>AASIL Blanket</u>
Density	4, 6, or 8 lb/ft ³	4, 6, or 8 lb/ft ³	6 lb/ft ³ (½" and 1" thick)
Modulus of Rupture (MOR)			
Supplied	N/A	N/A	N/A
After First Use	N/A	N/A	N/A
Compressive Strength (10% Compression)	N/A	N/A	N/A
Maximum Continuous Use Temperature	2300°F	2600° F	2900° F
Maximum Suggested Use Temperature	2150° F	2400° F	2800° F
Linear Shrinkage			
2200° F	2.5 %	1.8 %	N/A %
2600° F	N/A	3.9 %	N/A %
Thermal Conductivity (4 PCF)			
500° F	0.44 Btu-in/hr/ft ² /°F	0.44 Btu-in/hr/ft ² /°F	0.44 Btu-in/hr/ft ² /°F
1000° F	1.34 Btu-in/hr/ft ² /°F	1.34 Btu-in/hr/ft ² /°F	1.40 Btu-in/hr/ft ² /°F
1500° F	2.48 Btu-in/hr/ft ² /°F	2.48 Btu-in/hr/ft ² /°F	2.50 Btu-in/hr/ft ² /°F
1800° F	3.23 Btu-in/hr/ft ² /°F	3.23 Btu-in/hr/ft ² /°F	3.27 Btu-in/hr/ft ² /°F
2000° F	3.74 Btu-in/hr/ft ² /°F	3.74 Btu-in/hr/ft ² /°F	3.85 Btu-in/hr/ft ² /°F
Typical Chemical Analysis (After Use)			
SiO ₂	55 % (By Weight)	50 % (By Weight)	3 % (By Weight)
Al ₂ O ₃	44 % (By Weight)	35 % (By Weight)	96 % (By Weight)
Other	1% (By Weight)	15 % (By Weight)	1 % (By Weight)

Other Information

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Refractory Specialties, Inc. 230 West California Avenue, Sebring, Ohio 44672

Tel: (330) 938-2101/Fax: (330) 938-2574/Web: www.rsifibre.com /E-mail: BThomas@rsifibre.com