

## Unifrax Foamfrax® RG Insulation

Category : Ceramic

### Material Notes:

Foamfrax® RG (Refractory Grade) Insulation is an extension of the Foamfrax Insulation product line. Foamfrax RG Insulation is a combination of refractory ceramic fiber or soluble fiber, refractory cement, and a high-temperature binder solution combined in the field using the proprietary Foamfrax process. The resultant product form is a high-density, ceramic fiber or soluble fiber based material engineered for refractory backup lining applications. Foamfrax RG can be gunned easily around a variety of refractory anchor systems and air sets within 24 hours. Traditional refractory materials (castables, plastic and brick) may be installed over Foamfrax RG once the product air sets. Isofoam® RG Insulation is similar to Foamfrax RG Insulation, but utilizes Unifrax's patented Isofrax® soluble fiber chemistry as the fiber component of the finished product. Foamfrax RG Insulation and Isofoam RG Insulation may be applied in ducts, stacks and furnace hearths, in units operating at temperatures below 1800°F (982°C). Principal Applications Backup behind brick, plastic, refractory, and castable Annealing furnace bases Duct, flue, and stack linings Heat treat furnace, kiln car decks Incinerator floors, process heaters Information Provided by Unifrax I LLC

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Unifrax-Foamfrax-RG-Insulation.php](http://www.lookpolymers.com/polymer_Unifrax-Foamfrax-RG-Insulation.php)

Physical Properties	Metric	English	Comments
Density	0.352 - 0.449 g/cc	0.0127 - 0.0162 lb/in <sup>3</sup>	Dry
	0.368 - 0.481 g/cc	0.0133 - 0.0174 lb/in <sup>3</sup>	
	@Treatment Temp. 982 °C, Time 86400 sec	@Treatment Temp. 1800 °F, Time 24.0 hour	Fired
Loss On Ignition	6.0 - 9.0 %	6.0 - 9.0 %	
	@Temperature 982 °C, Time 86400 sec	@Temperature 1800 °F, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.276 - 0.414 GPa	40.0 - 60.0 ksi	Dry
	0.241 - 0.379 GPa	35.0 - 55.0 ksi	
	@Treatment Temp. 982 °C, Time 86400 sec	@Treatment Temp. 1800 °F, Time 24.0 hour	Fired
Compressive Strength	0.276 - 0.345 MPa	40.0 - 50.0 psi	Cold Crush Strength

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	982 °C	1800 °F	Continuous
	3.0 %	3.0 %	

Shrinkage Thermal Properties	@Treatment Temp. 982 Metric	@Treatment Temp. 180 °F, English	Linear Comments
	Time 86400 sec	Time 24.0 hour	

Descriptive Properties	Value	Comments
Appearance	Brown Fibrous/Cement Mixture	
Set Time (Hours)	24	

## Contact Songhan Plastic Technology Co.,Ltd.

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