

## Unifrax Foamfrax® Grade III Fiber Insulation

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

### Material Notes:

Foamfrax® Insulation is a monolithic insulation system developed by Unifrax. Foamfrax Insulation is a three-component system of specially conditioned bulk ceramic or soluble fibers, an inorganic binder, and an organic foaming binder. Foamfrax Insulation is easily installed at the job site by trained contractors using the special Foamfrax installation machinery. The interlocking network of fibers provides a strong, uniform monolithic structure having excellent thermal insulating properties, very low heat storage, and excellent resistance to thermal shock. Foamfrax Insulation is unaffected by most chemicals except hydrofluoric acid, phosphoric acid, and concentrated alkalis.

**Characteristics**  
 Speed and ease of installation  
 Low rebound during installation  
 Low thermal conductivity  
 Low thermal shrinkage  
 Low heat storage  
 Excellent thermal shock resistance  
 Good chemical resistance  
 Good sound absorption

**Principal Applications**  
 Furnace linings (reformers, boilers, kilns, heat treating furnaces, etc.)  
 Vessel linings (incinerators, flues, ducts and stacks)  
 Furnace refractory upgrades (Lining over Refractory (LOR), Fiber over Fiber (FOF))  
 Low mass kiln car decks  
 Ladle preheat stands  
 Backup for high-density gunned refractories  
 Boiler tube wall insulation  
 Furnace lining maintenance (gunning gaps, cracks and voids)  
 Fire protection

Information Provided by Unifrax I LLC

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.128 g/cc	0.00463 lb/in <sup>3</sup>	Installed Fired
	0.256 g/cc	0.00926 lb/in <sup>3</sup>	Installed Wet
Loss On Ignition	0.75 %	0.75 %	

Thermal Properties	Metric	English	Comments
Melting Point	1760 °C	3200 °F	
Maximum Service Temperature, Air	1538 °C	2800 °F	Recommended Operating Temperature
Shrinkage	<= 3.0 %	<= 3.0 %	at operating temperature
	@Time 86400 sec	@Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	59 - 63 %	59 - 63 %	
SiO2	36 - 40 %	36 - 40 %	

Processing Properties	Metric	English	Comments
Moisture Content	50 %	50 %	At Installation

Descriptive Properties	Value	Comments
Color	White (Fired)	
Fiber Diameter (microns)	1-3.5	
Temperature Grade (°C)	1649	
Trace Elements (%)	<2	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China