

Unifrax Foamfrax® Grade I 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-I-Fiber-Insulation.php

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

Thermal Properties	Metric	English	Comments
Melting Point	1760 °C	3200 °F	
Maximum Service Temperature, Air	1175 °C	2147 °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	47 - 52 %	47 - 52 %	
Na2O	<= 0.50 %	<= 0.50 %	
SiO2	48 - 53 %	48 - 53 %	

Processing Properties	Metric	English	Comments

Moisture Content Processing Properties	50 % Metric	50 % English	At Installation Comments
Descriptive Properties		Value	Comments
Color		White (Fired)	
Fiber Diameter (microns)		1.5-2.5	
Temperature Grade (°C)		1260	

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