

Unifrax Foamfrax® Isofoam Fiber Insulation

Category : Ceramic , Oxide , Magnesium 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-Isofoam-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	1500 °C	2730 °F	
Maximum Service Temperature, Air	1260 °C	2300 °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
MgO	19 - 26 %	19 - 26 %	
SiO ₂	72 - 77 %	72 - 77 %	

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

Descriptive Properties	Value	Comments
Color	Bluish-White (Fired)	
Fiber Diameter (microns)	1.8-2.8	
Temperature Grade (°C)	1260	
Trace Elements (%)	0-4	

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