

Unifrax Fiberfrax® LTC HSA™ Systems Ceramic Fiber Insulation

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Fiberfrax® LTC HSA™ Systems is a ceramic fiber insulation constructed from multiple layers of ceramic fiber paper encapsulated between an outer covering of high-temperature woven textile cloth and parallel stitched to form a flexible insulation pad. The thermal resistance properties exhibited by LTC HSA Systems are a result of the lightweight ceramic fiber paper core material composed of fine diameter fibers. This core paper has a small cell structure; in addition, all unfiberized particles have been eliminated. This results in very low thermal conductivity and good high-temperature insulation values. The high fiber index results in high resistance to mechanical and acoustical vibration. If wet by water or steam, all LTC HSA System's thermal and physical properties are restored upon drying. It also exhibits excellent chemical stability and resistance to attack from most corrosive agents. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis. Key performance features of LTC HSA Systems include: Very low thermal conductivity, Lightweight, High-temperature insulating values, Excellent vibration resistance, Unaffected by moisture, Superior flexural integrity. Applications: The lightweight, excellent thermal and vibration resistance of LTC HSA Systems allow it to provide maximum insulating value while utilizing the least amount of weight and space. These features make LTC HSA Systems an ideal choice for high-performance applications where critical areas are exposed to high operating temperatures, high vibration environments or are at risk from potential fire damage. Typical high-performance applications include: Heat shield insulation on missiles, rockets and space exploration equipment, Thermal insulation on commercial and military aircraft - engine struts, thrust reversers, nacelles, Insulation liners for fire protection of hazardous material storage containers, Expansion joints for engine and turbine exhaust ducts. Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-Fiberfrax-LTC-HSA-Systems-Ceramic-Fiber-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.160 g/cc	0.00579 lb/in ³	Nominal Core Density
Loss On Ignition	1.03 %	1.03 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1260 °C	2300 °F	Recommended Operating Temperature

Processing Properties	Metric	English	Comments
Moisture Content	0.50 %	0.50 %	

Descriptive Properties	Value	Comments
Alumina-Silica Fibers (%)	70	
Glass Fiber (%)	14	
Inorganic Binder (%)	2	

Other (%) Descriptive Properties	Value	Comments
Temperature Grade (°C)	1260	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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