

## Unifrax Fiberfrax® HSA-K Kaolin High-Index Fiber

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

### Material Notes:

In addition to Fiberfrax Bulk Fibers, Unifrax has the ability to produce many different specialty fibers that provide a variety of desirable performance properties for certain applications. These fibers can be classified into the following general categories: High-Index Fibers High-Temperature Fibers Large-Diameter Fibers Milled Fibers Fiber index is a measurement which determines the amount of fiberized material in the actual fiber. During fiber manufacturing, shot or unfiberized material is produced as a natural product of the fiberization process. Unifrax has the ability to reduce the amount of shot in a fiber by controlling the furnacing process or by washing out the unfiberized material. Fiberfrax High-Index have proven to be a good reinforcement material for use in automotive break lining and other friction material. These high-index fibers provide a variety of desirable properties such as: Frictional stability High-temperature frictional performance Fade resistance Flexural reinforcement Fiberfrax High-Index fibers can also be used as a mechanical thixotrope in coatings applications offering reinforcement and fire resistance as additional benefits. These fibers offer the following unique properties: Excellent high-temperature stability Good strength and high modulus Low coefficient of thermal expansion Superior chemical resistance Very low moisture absorption The thixotropic properties of Fiberfrax High-Index Fibers in conjunction with the mechanical and physical properties they have to offer make them an excellent candidate for use in: Mastics Adhesives Thick Film Coatings Fire Protective Materials Caulks, Putties, and Sealants Information Provided by Unifrax I LLC

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Unifrax-Fiberfrax-HSA-K-Kaolin-High-Index-Fiber.php](http://www.lookpolymers.com/polymer_Unifrax-Fiberfrax-HSA-K-Kaolin-High-Index-Fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.67 g/cc	2.67 g/cc	

Thermal Properties	Metric	English	Comments
Melting Point	1760 °C	3200 °F	
Maximum Service Temperature, Air	1175 °C	2147 °F	Recommended Operating Temperature

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	45 - 51 %	45 - 51 %	
Fe <sub>2</sub> O <sub>3</sub>	<= 1.5 %	<= 1.5 %	
Na <sub>2</sub> O	<= 0.50 %	<= 0.50 %	
SiO <sub>2</sub>	46 - 52 %	46 - 52 %	
TiO <sub>2</sub>	<= 2.0 %	<= 2.0 %	

Descriptive Properties	Value	Comments
Average Fiber Diameter (microns)	0.75-1.5	

Descriptive Properties	Value	Comments
Fiber Index (%)	95+	
Temperature Grade (°C)	1260	

## Contact Songhan Plastic Technology Co.,Ltd.

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