

FIBERFRAX® BULK FIBER

Fiberfrax Bulk Ceramic Fiber is the basis for the Fiberfrax family of products. Manufactured from high purity alumina-silicate materials, Fiberfrax Bulk Fibers have a continuous high temperature use limit of 1260°C. Fiberfrax Bulk Fibers exhibit excellent resistance to attack from most corrosive agents, with the exceptions of hydrofluoric acid, phosphoric acid and strong alkalis. The fibers also effectively resist oxidation and reduction. If wet by water or steam, thermal and physical properties are restored upon drying. Fiberfrax Bulk Fibers can be used in a wide range of application as thermal insulation, particularly in fire protection and high temperature expansion joint applications.

General Characteristics

Fiberfrax Bulk Fibers offers users a number of important advantages over all man-made mineral fibers:

- High temperature stability
- Low thermal conductivity
- Low heat storage
- Excellent thermal shock resistance
- Superior corrosion resistance
- Excellent sound absorption

Availability

All Bulk Fibers are packed by Unifrax at approximately 150kg/m³ density

- Fiberfrax Bulk Fiber
- Fiberfrax Granulated Bulk Fiber
- Fiberfrax FT Fiber
- AB Bulk Fiber
- AZS Bulk Fiber (Alumina-Silica-Zirconia chemistry)
- Fibermax Bulk Fiber (High Alumina, high temperature fibers)
- MR II Fibers

Please contact Application Engineering for more information on +61 3 9463 0000

Typical Applications

- Expansion joints
- Furnace base seals
- Packing around burner tiles
- Tube seals
- Glass feeder bowl insulation



Physical Properties

Colour	Blueish-white
Classification Temperature	1260°C
Melting Point	1760°C
Normal Packing Density	96-192 kg/m ³
Fiber Diameter	2-3 microns
Fiber Lengths	Up to 100mm
Specific gravity	2.73
Specific heat at 1093°C	1130 J/kg °C
Fiber Tensile Strength	>35 kPa (128kg/m ³)
Fiber Surface Area	0.5 m ² /g

Thermal Conductivity Data (W/mK)

Mean Temp	96 kg/m ³	128 kg/m ³	160 kg/m ³
200°C	0.06	0.05	0.05
400°C	0.10	0.09	0.08
600°C	0.15	0.12	0.11
800°C	0.21	0.16	0.14

Other Fiberfrax Product Forms are:

- Fiberfrax Durablanket
- Fiberfrax Duraboards
- Fiberfrax Paper
- Fiberfrax Felts
- Fiberfrax Vacuum Cast Shapes
- Fiberfrax Mastics and Cements

Data are average results conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.