

INSULFRAX™ BULK FIBER

Insulfrax Bulk Fiber is the basis for the Insulfrax family of products. Insulfrax is a revolutionary breakthrough in insulating materials technology.

Insulfrax Bulk fiber is based on a calcium-magnesium-silica chemistry, giving it excellent thermal and physical stability up to its operational limit of 1000°C, allowing for excursions up to 1100°C. Insulfrax products also meet European regulatory requirements (Directive 97/69/EC).

Insulfrax products can be used in a wide range of applications as thermal insulation, particularly in fire protection and in domestic appliances.

General Characteristics

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

- Excellent thermal and physical stability up to 1100°C
- Lightweight, flexibility and exceptional acoustic absorption properties.
- Insulfrax Bulk Fibers can be supplied lubricated for the manufacture of high temperature textiles or unlubricated for use in water-based conversion processes.

Chemical Analysis (wt.%)

SiO ₂	61.0 – 67.0
CaO	27.0 – 33.0
MgO	2.5 – 6.5
Al ₂ O ₃	<1.0
Fe ₂ O ₃	<0.6

Typical Physical Properties

Colour	Bluish-white
Classification Temperature	1100°C
Melting Point	>1330°C
Fiber Diameter	3.2 microns (mean)



Thermal Conductivity Data (W/mK)

Mean Temperature	96kg/m ³
400°C	0.09
600°C	0.14
800°C	0.22

Typical Applications

- Textile manufacture.
- Chimney fill
- Fire door infill
- Building expansion joints.
- Vacuum forming application.

Availability

Insulfrax Bulk Fibers are available in 20 kg bales. Other sizes available on request subject to order.

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