

Insulfrax® Cord

Description

Insulfrax® Cord is produced from a number of yarns, twisted together. The diameter of the cord is determined by the number and thickness of the yarns used.

Insulfrax Cord is a soft, resilient product and can be enclosed in wire mesh or cloth to make gaskets and other seals. If a graphite coating is applied to the cord, its lubrication properties are enhanced.

Insulfrax Cord is reinforced with glass (650 °C) or metal wire (1050 °C) and contains approximately 20% organic carrier fibre to facilitate the carding process. The carrier fibre burns out at a low temperature, but this has no effect on the properties of the speciality glass fibre.

General Characteristics

Insulfrax Cord products have the following outstanding characteristics:

- High temperature stability
- Resistance to thermal shock and chemical attack
- Excellent handling strength
- Easy to wrap, cut and shape

Typical Applications

- Door seals for stoves and ovens
- Door seals for coke furnaces (steel industry)
- Thermal insulation of electrical wiring
- With additional braiding: seals of inspection doors
- With special impregnation: gas tight seal of boiler sections
- Wrapping round pipes (thermal insulation)

Information on other applications available upon request. Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.



Chemical Properties

Insulfrax Cord exhibits excellent chemical stability resisting attack from most corrosive agents. Exceptions are hydrofluoric acids and phosphoric acids and concentrated alkalis. No water of hydration is present.

Typical Product Parameters[‡]

Insulfrax	Cord
<i>Typical Chemical Analysis</i>	
Basic composition	Silica - Calcium - Magnesia
<i>Physical Properties</i>	
Colour	White
Melting Point (°C)	>1330
Product Density (kg/m ³) - average	500
Use Limit (°C)* reinforced with glass	650
Use Limit (°C)* reinforced with metal wire	1050

[‡]Product parameters relate to product characteristics **before any secondary treatment**.

*Use limit refers to the maximum short term temperature limit. The maximum continuous use limit for boards depends upon application conditions. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.

Where appropriate Physical Properties data measured **according to EN 1094-1**.

Availability

Insulfrax Cord is available in the following diameter sizes : 3 - 50 mm

Handling Information

A Safety Data Sheet (SDS) has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

Insulfrax fibre has a high solubility in simulated body fluids and hence carries no hazard classification, meeting stringent European regulatory requirements. Insulfrax fibres are exonerated from classification as hazardous (tested according to Note Q Regulation (EC) No. 1272/2008).

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The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

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Unifrax
Corporate Headquarters
600 Riverwalk Parkway
Tonawanda, NY 14150 USA
Telephone: 716-768-6500
Internet: www.unifrax.com
Email: info@unifrax.com

Unifrax
European Sales &
Marketing Headquarters
Unifrax Limited
Mill Lane, Rainford,
St. Helens, Merseyside
England, WA11 8LP
Telephone: +44 (0)1744 887600