

Insulfrax® Braid

Description

Insulfrax® Braid is produced from various types of yarn and can be supplied in round, square or rectangular section.

Insulfrax Braid is a high density, high strength product with low compressibility and is especially recommended for heavy duty applications.

Insulfrax Braid 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 fibre.



General Characteristics

Insulfrax Braid 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
- High density, low compressibility

Typical Applications

- Static seals in (steam) boilers and (coke) furnaces
- Kiln car seals
- Seals in heat exchangers
- Seals between filter elements
- Wrapping of exhausts

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 Braid 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	Braid
<i>Typical Chemical Analysis</i>	
Basic composition	Silica - Calcium - Magnesia
<i>Physical Properties</i>	
Colour	White/blueish
Melting Point (°C)	>1330
Product Density (kg/m ³) - average	550 - 600
Use Limit (°C)* reinforced with glass	650
Use Limit (°C)* reinforced with metal	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 Braid is available in the following diameter sizes: 5 - 60 mm, section sizes 5 x 5 - 60 x 60 mm. Other dimensions and rectangular sizes available on request.

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).

Insulfrax[®]

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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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