

Insulfrax® Speciality Rope

Description

Insulfrax® Speciality Rope is produced from a core of strips which are cut from fibre blankets. The strips can be overbraided with a metal wire (1050 °C), silica filament (1000 °C) Insulfrax yarn (1050 °C), E-glass filament (550 °C) or HT glass filament (750 °C).

Insulfrax Speciality Rope is a soft resilient high temperature fibre rope, with a low organic content and is available with open or closed meshes. (An organic free version is available for use in applications where non combustibility is necessary e.g. fire seals or hot exhaust pipe wrapping).

General Characteristics

Insulfrax Speciality Rope 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
- Choice of overbraiding materials

Typical Applications

- Door seals in boilers, ovens, reformers and other petrochemical furnaces, glass furnaces, etc
- Seals between kiln cars (ceramic industry)
- Expansion joints in buildings
- Seals for domestic appliances
- Seals between boiler sections
- Seals for continuous casting ("dummy bar seals")
- Seals of thermocouple tubes
- Thermal insulation of steam-pipes in wells

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 Speciality Rope 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. The resilience of the product may decrease over time therefore it is advised to use or process upon receipt of the product.

Typical Product Parameters[‡]

Insulfrax	Speciality Rope
<i>Typical Chemical Analysis</i>	
Basic composition	Silica - Calcium - Magnesia
<i>Physical Properties</i>	
Colour	White/green (dependant upon the outer braiding)
Melting Point (°C)	>1330
Product Density (kg/m ³) - average	200 - 600
Continuous Use Limit (°C) - Overbraided with E-glass	550
Overbraided with HT glass	750
Overbraided with silica filament	1000
Overbraided with Insulfrax Yarn**	1050
Overbraided 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.

**Reinforced with metal wire

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

Availability

Insulfrax Speciality Rope is available in the following diameter sizes : 12 - 60 mm. Square and rectangular sections are also 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).



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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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