

Insulfrax® Cloth

Description

Insulfrax® Speciality Glass Fibre Cloth is produced by weaving a number of plied yarns. The width and thickness are determined by the number and thickness of the yarns used.

Insulfrax Cloth is a soft resilient product, available in a number of different thicknesses and constructions to provide a comprehensive range, with use temperature limits up to 1050 °C .

Insulfrax Cloth 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 specialty glass fibre.



General Characteristics

Insulfrax Cloth 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

- Fire-resistant curtains
- Insulation linings
- Protective clothing
- Wrapping of exhausts
- Controlled cooling of castings
- Radiant heat shields
- Insulation of gas/steam turbines
- Welding curtains

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 Cloth 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	Cloth
<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	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 Cloth is available in the following thicknesses: 2 and 3 mm, width 1000 mm. Other 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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