

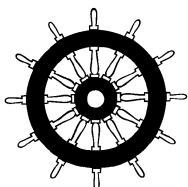
**Insulfrax<sup>®</sup>S Blanket is the latest product in our soluble fibre product range.**

Following an extended period of development, Insulfrax S Blanket represents a significant breakthrough for Unifrax's proprietary process technology. Insulfrax S Blanket has high solubility in simulated body fluids and meets the appropriate European and German regulatory requirements\*.

Insulfrax S Blanket offers a high classification temperature combined with excellent tensile strength, handleability and low shot content, while retaining very good compressibility and flexibility.

Insulfrax S Blanket can be used in a wide range of applications as thermal insulation and is especially suited to use as a high temperature wraps, heat shields and in sealing applications.

\*Under Note Q of EU Directive 67/548/EEC and TRGS 905



BV 0062



## GENERAL CHARACTERISTICS

Insulfrax S Blanket has these outstanding characteristics:

- High temperature stability (up to 1200°C)
- Excellent handling strength
- Soft feel
- Low shot content
- Very good flexibility
- Excellent acoustic absorption capabilities

## Typical Chemical Analysis (fibre wt.%)

SiO <sub>2</sub>	61.0 - 67.0
CaO	27.0 - 33.0
MgO	2.5 - 6.5
Al <sub>2</sub> O <sub>3</sub>	<1.0
Fe <sub>2</sub> O <sub>3</sub>	<0.6

N.B.

Insulfrax S Blanket is designed for short term use in applications up to its classification temperature of 1200°C. For those types of industrial applications, where long term stability is important, e.g. furnace/process heater linings, the operating temperature limits are typically reduced.

We encourage potential users to discuss such applications with their local Unifrax Application Engineering Department. (See contact details overleaf)

## TYPICAL PRODUCT PARAMETERS

### Physical Properties

Colour	White
Classification Temp.	1200°C
Fibre Diameter	3.2 microns (mean)
Product Density (nominal)	64, 96, 128 and 160kg/m <sup>3</sup>
Tensile Strength (128kg/m <sup>3</sup> )	>90 kPa

### Thermal Conductivity Data (W/mK) kg/m<sup>3</sup>

	64	96	128	160
200°C Mean Temp.	0.07	0.06	0.05	0.04
400°C Mean Temp.	0.10	0.09	0.08	0.07
600°C Mean Temp.	0.18	0.14	0.12	0.11
800°C Mean Temp.	0.27	0.22	0.18	0.17
1000°C Mean Temp.	0.43	0.34	0.29	0.25

### Permanent Linear Shrinkage 24 hour soak

1200°C	<1.0%
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Where appropriate Physical Properties and Thermal Conductivity Data are measured according to ENV-1094 methods.

Any new and/or special use of these products, whether or not in an application listed in this datasheet, must be submitted to our technical department for their prior written approval.

Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation.

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## Typical Applications

- Passive fire protection in marine, offshore and onshore environments
- Cogeneration and power plant duct linings
- Chimney insulation
- Process heater linings
- Heat Shields
- Pipe wrap
- Annealing furnace linings
- Furnace and kiln back-up insulation
- Storage heater insulation
- Aluminium transfer launder covers
- Maintenance blanket in steel works
- Mould wrap
- Weld stress relief
- Glass Lehr linings

## Availability (standard products)

Thickness	13 mm	25 mm	38 mm	50 mm
<b>Roll length (m)</b>				
<i>Width</i>				
610 mm	14.64	7.32	5.00	3.66
1220 mm	14.64	7.32	5.00	3.66

Other thickness/width/length sizes may be available on request subject to a minimum order requirement

**Supplied by:**

### Contact Numbers

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### Handling Information

A Material Safety Datasheet is available for this product.



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Further information and advice on specific details of the products described should be obtained in writing from a Unifrax Corporation company (Unifrax Benelux, Unifrax España, Unifrax France, Unifrax GmbH, Unifrax Italia, Unifrax Limited).

Unifrax maintains a continuous programme of product development and reserves the right to change product specification without prior notice. Therefore, it remains at all times the responsibility of the customer to ensure that Unifrax materials are suitable for the particular purpose intended.

Similarly, insofar as material not manufactured nor supplied by Unifrax are used in conjunction with or instead of Unifrax materials, the customer should ensure that all technical data and other such information relating to such materials has been obtained from the manufacturer or supplier. Unifrax accepts no liability arising from the use of such materials.

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