

## Insulfrax® LTX™ Foil Faced Blankets

### Description

Insulfrax® LTX™ Foil Faced Blanket products from Unifrax are the latest addition to the Insulfrax product family. Insulfrax LTX offers the same benefits as previous Insulfrax blankets, now with physical properties enhanced to improve both thermal performance and handling. Insulfrax LTX Foil Faced Blankets are lightweight needled blankets based upon Insulfrax alkaline earth silicate wool, which are reprocessed at our specialist manufacturing facilities. Aluminium foil or glass cloth coverings are attached to the surface of the Insulfrax LTX Blankets using an inorganic adhesive. This extensive range of blanket products available in various density and thickness combinations are particularly suited for use in fire protection applications and as a vapour barrier in furnace linings.

### General Characteristics

Insulfrax LTX Foil Faced Blankets products have the following outstanding characteristics:

- Exceptional insulating properties
- High temperature stability (up to 1200°C)
- Resistance to thermal shock
- Excellent handling strength
- Lightweight
- Excellent flexibility
- Good acoustic properties

### Product Range

Insulfrax LTXF Blanket has a 30 micron aluminium foil bonded to one surface with a non-fuming and non-combustible inorganic adhesive.

Insulfrax LTXFR Blanket is available when extra tear resistance is required. A square grid glass fibre reinforcing mesh is inserted between the 30 micron aluminium foil and the blanket and bonded using a non-fuming and non-combustible inorganic adhesive.



### Typical Applications

Insulfrax LTX Foil Faced Blankets are the next generation of low biopersistent Insulfrax fibre and product of choice for a wide range of applications in a number of industries including:

- Passive fire protection systems
- Vapour barrier in furnace linings
- Chimney and duct insulation
- External pipe insulation

Insulfrax LTXG Blanket has a 200 gsm glass cloth bonded to one surface with a non-fuming inorganic adhesive. LTXG blanket is non-combustible and is ideal for use where extra surface durability is required or if a decorative coating is to be applied.

LTXF and LTXFR Blankets may also be available (depending on thickness/density) with the covering on both top and bottom surfaces of the blanket and are designated LTXF2 and LTXFR2.

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## Typical Product Parameters

	Insulfrax LTX Foil Faced Blankets		
<i>Typical Chemical Analysis (wt. %)</i>			
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		
<i>Physical Properties</i>			
Colour	White		
Classification Temperature (°C)*	1200		
Use Limit (°C)*	1100		
Melting Point (°C)	>1330		
Mean Fibre Diameter (microns)	4.0		
<i>Permanent Linear Shrinkage (%) 24 hour soak EN 1094-1</i>			
1200°C	1.0		
<b>Density (kg/m<sup>3</sup>)</b>	<b>64</b>	<b>96</b>	<b>128</b>
<i>Thermal Conductivity (W/mK) – ASTM C201</i>			
<b>Mean Temp.</b>			
200°C	0.06	0.06	0.05
400°C	0.11	0.09	0.08
600°C	0.17	0.14	0.12
800°C	0.26	0.20	0.18
1000°C	0.38	0.29	0.25

\*The maximum continuous use limit temperature for these products depends upon operating and application conditions, and also the engineered design of the insulation lining. For additional information and support regarding product performance or to identify the recommended product for your application, please contact your nearest Unifrax Application Engineering office.

Data shown is based on average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.



# Insulfrax<sup>®</sup> LTX<sup>™</sup> Foil Faced Blankets



## Availability

Thickness (mm)	Density (kg/m <sup>3</sup> )			Roll Length (m)
	64	96	128	
13		✓	✓	14.64
25	✓	✓	✓	7.32
38	*	✓	✓	5.00
50	✓	✓	✓	3.66

Standard roll width is 610mm.

Products in the table above listed with a checkmark (✓) are standard items.

Products marked with an asterisk (\*) are not standard items but are available on request and may be subject to minimum order requirements.

Other thicknesses sizes and alternate foils may be available on request subject to minimum order requirements.

## 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).

For additional information about product performance or to identify the recommended product for your application, please email the Unifrax Application Engineering Group: [applicationengineering@unifrax.com](mailto:applicationengineering@unifrax.com).

Or telephone: +44 (0)1744 887625.

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