

Product Information Sheet

Insulfrax®

Insulfrax® LTX™ Foil Faced Blankets

Description

Insulfrax® LTX™ Foil Faced Blanket products from Alkegen 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

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



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.

Insulfrax LTXG Blanket has a 200 gsm glass cloth bonded to one surface with a non-fuming inorganic adhesive. SG 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		
Typical Chemical Analysis (wt. %)			
SiO ₂	61.0 – 67.0		
CaO	27.0 – 33.0		
MgO	2.5 – 6.5		
Al ₂ O ₃	<1.0		
Fe ₂ O ₃	<0.6		
Physical Properties			
Colour	White		
Classification Temperature (°C)*	1200		
Continuous Use Temperature (°C)**	1100		
Melting Point (°C)	>1330		
Mean Fibre Diameter (microns)	4.0		
Permanent Linear Shrinkage (%) 24 hour soak EN 1094-1			
1200°C	1.0		
Density (kg/m³)	64	96	128
Thermal Conductivity (W/mK) – ASTM C201			
Mean Temp.			
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 Classification Temperature is not a definition of the operational temperature use limit of these products, especially when long-term physical or dimensional stability is a factor. The classification temperature is the temperature at which irreversible linear shrinkage does not exceed a given value after a 24-hour heat soak test. For applications where long-term stability is not a requirement, products may be successfully used at temperatures well in excess of their Classification Temperature. For continuous use applications requiring long-term stability, routine practice is to utilize materials in respect to their continuous use temperature.

**The Continuous Use Temperature is a recommended maximum operating temperature for the material usage under clean, oxidizing atmosphere conditions. For certain application conditions (specific chemical contaminants, reducing atmospheres, etc.), the Continuous Use Temperature may be reduced.

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.

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Availability

Thickness (mm)	Density (kg/m ³)			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 is an AES (alkaline earth silicate) wool, that is exonerated from classification by virtue of Note Q, as detailed under regulation (EC) No 1272/2008 (CLP) and as such is considered to be a low biopersistent (LBP) substance.

For additional information about product performance or to identify the recommended product for your application.

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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. Product Information Sheets are periodically updated by Alkegen. Before relying on any data or other information in this Product Information Sheet, you should confirm that it is still current and has not been superseded. A Product Information Sheet that has been superseded may contain incorrect, obsolete and/or irrelevant data and other information.

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