

Insulfrax[®] LTX[™] Anchor-Loc[®] Modules

Description

Insulfrax[®] LTX[™] Anchor-Loc Modules combine the performance features of the proven Anchor-Loc Module attachment systems with the utilisation of Insulfrax LTX Blanket, a low bio-persistent (LBP) fibre thermal insulation from Unifrax. These lightweight needled blankets combine innovative proprietary technology with Insulfrax proven performance to create the best low-bio persistent Insulfrax blanket available from Unifrax today. Insulfrax LTX blankets, manufactured from alkaline earth silicate (AES) wool, provide effective solutions to a variety of thermal management challenges. . Insulfrax LTX Blanket combines superior thermal performance, excellent tensile strength and exceptional resilience making it the ideal choice as feedstock for the manufacture of Anchor-Loc LTX Modules. Insulfrax LTX Anchor-Loc Modules retain their strength, flexibility and thermal properties in many working environments without the generation of smoke or fumes. Modules are typically manufactured from fully edge-stacked or folded Insulfrax LTX Blanket. The fold location may be on the hot face or cold face of the module, subject to client preference. They can be produced in several design configurations. Insulfrax LTX Anchor-Loc Modules are available with a choice of anchoring systems to enable quick, easy and efficient installation, providing an effective engineered solution for various lining applications.

General Characteristics

Insulfrax LTX Anchor-Loc Modules have the following outstanding characteristics:

- High temperature stability (up to 1050°C)
- Low thermal conductivity
- Resistance to thermal shock
- Low heat storage
- Lightweight
- Fast installation & selection of attachment systems



Typical Applications

Insulfrax LTX Anchor-Loc Modules are the product of choice for a wide range of applications in a number of industries.

Metallurgy

- Annealing furnaces
- Heat treatment furnace lining

Power Generation

- Heat Recovery Steam Generator (H.R.S.G.)
- Duct linings

Petrochemical

- Stabiliser reboiler
- Hot bypass stack

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.

Typical Product Parameters

Insulfrax	LTX Anchor-Loc
Typical Chemical Analysis (fibre 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
Density (kg/m ³)	170
Use Limit (°C)*	1050
Classification Temperature (°C)*	1200
Mean Fibre Diameter (microns)	4.0
Thermal Conductivity (W/mK) - ASTM C-201	
Mean Temperature	
400 °C	0.09
600 °C	0.11
800 °C	0.14
1000 °C	0.20

* 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.



Availability*

Standard Module Dimensions (mm)			RX2	TL, WL
Length	Width	Thickness	Per Pallet	Per Pallet
300	300	100	264	308
		125	192	224
		150	168	196
		175	144	168
		200	120	140
		225	96	112
		250	96	112
		275	96	112
		300	72	84
		325	72	84
		350	72	84

*Based on a standard truck

Other densities, thicknesses, block sizes may be available on request subject to minimum order requirements.

Anchor systems available include:

RX2 = Side fixing system: Standard grade AISI 321

TL = Thread-Loc. Centre fixing system: Standard grade AISI 304

WL = Weld-Loc: Standard grade AISI 304

Other anchoring systems available subject to 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 1300 HT 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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Unifrax
Corporate Headquarters
600 Riverwalk Parkway
Tonawanda, NY 14150 USA
Telephone: 716-768-6500
Internet: www.unifrax.com
Email: info@unifrax.com

Unifrax
European Sales &
Marketing Headquarters
Unifrax Limited
Mill Lane, Rainford,
St. Helens, Merseyside
England, WA11 8LP
Telephone: +44 (0)1744 887600