Insulfrax LTX™
Next generation Insulfrax low-biopersistent technology
Since 1992, the Insulfrax brand from Unifrax represents proven technical performance across a broad range of industrial markets and applications. Insulfrax LTX™ Blankets 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. These lightweight needled blankets combine innovative proprietary technology with Insulfrax proven performance to create the best low-biopersistent Insulfrax blanket available from Unifrax today. Insulfrax LTX blankets are manufactured from alkaline earth silicate (AES) wool, and provide effective solutions to a variety of thermal management challenges. Insulfrax LTX blankets outperform both Insulfrax LT and Insulfrax S blankets in a variety of thermal management industrial applications.

General Characteristics
Insulfrax LTX Blanket products have the following outstanding characteristics:
- Exceptional insulating properties
- High temperature stability (up to 1200°C)
- Resistance to thermal shock
- High tensile strength & resiliency
- Lightweight
- Excellent flexibility
- Good acoustic properties

New Advanced Insulfrax Innovation
Insulfrax LTX blankets provide unparalleled thermal performance and improved handling properties compared with standard AES blanket products. Key process developments during our manufacturing process have enabled engineers to significantly increase fibre content and minimize the size and amount of unfiberised “shot” particles. Insulfrax LTX blankets contain up to 30% more fibre with less shot than Insulfrax S blanket and 10-15 percent less larger shot (greater than 125 microns diameter). This provides a 20 percent reduction in thermal conductivity enhancing the insulating performance of these blankets. A low thermal conductivity makes the material more effective at restricting heat flow through its thickness. Insulfrax LTX blanket achieves reduced temperatures on cold face surfaces and less energy loss through a lining system. The graph here illustrates the improvements over the previous industry standard – Insulfrax S Blanket.

Thermal Conductivity

![Graph showing comparison of Insulfrax S Blanket and Insulfrax LTX Blanket thermal conductivity.](image-url)
Insulfrax LTX blankets have significantly improved strength and handling characteristics. The needling of fibre mat during manufacturing generates interlinking of fibres which provides the blanket with additional tensile strength. By increasing the number of fibres, the product exhibits superior strength and performance. Insulfrax LTX blankets make life easier for installers. Typical tensile strengths have been increased by up to 30 percent when compared with the popular Insulfrax S blanket. Current Insulfrax LT customers will also realize improved tensile strength up to 10 percent.

The chart shows the typical values for Insulfrax LTX Blankets in 96kg/m³ density when compared to Insulfrax S and LT blankets. Stronger blankets are more difficult to pull apart – and are better able to withstand the rigours of installation.

**Easy Handling And Installation**

Insulfrax LTX Blankets are inorganic and binder free with an improved, smoother surface finish. These blankets are less dusty, which makes handling and cutting the material easier, resulting in faster installation of the product onsite and, in some cases, reduced waste of material. Insulfrax LTX Blankets are also printed on the surface of the blanket, which makes installation tracking and inspection on the job site or in the fabrication shop easier.

**Longer Lifetime**

30 percent more fibre per unit mass and fewer large shot particles allow the remaining small shot to be ‘locked away’ from the surface resulting in minimal free particles in the fibre matrix, therefore Insulfrax LTX Blankets provide a longer lifetime in high vibration– high temperature environments.

**Experience You Can Count On**

Insulfrax LTX is designed to exceed customers’ expectations around the world, with an unparalleled low-biopersistent product offering. This latest Insulfrax technology clearly places Unifrax as a worldwide leader in high temperature thermal management products. Unifrax is the only vertically integrated fibre manufacturer that can provide customers with a range of fiber chemistries and product offerings with various thicknesses and weight, to operate at various use temperatures effectively and efficiently, while delivering outstanding technical, application engineering and customer service support.
Unifrax Worldwide

Unifrax is a global leader in high-performance specialty products used by many industries in a diverse group of applications. Our products provide substantial improvement in thermal performance, save thousands of dollars in energy costs and can help reduce your operations environmental footprint. Unifrax is committed to producing high quality products that help our customers save energy, reduce pollution and improve fire safety.

Call us or visit our website www.unifrax.com

Global Footprint

Unifrax products are sold globally in more than 80 countries around the world.

The Company has 26 manufacturing facilities in North America, South America, Europe, Asia, South Africa and Australia.

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