

Isofrax



High Temperature Solutions for Global Markets



Isofrax® High Temperature Insulation For Thermal Management
Isofrax® is a registered product of [Unifrax I LLC](#)

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Isofrax AES Fiber High Temperature Insulation Products

[Unifrax I LLC](#) has manufactured refractory ceramic fiber [high temperature insulation](#) products since 1942. However, with Directive 97/69/EC, the European Community established new regulations for synthetic glass fibers that requires users to seek more soluble alternatives to refractory ceramic fiber.

The revolutionary new [Isofrax vitreous Alkaline Earth Silicate \(AES\) Fiber](#), patented by [Unifrax I, LLC](#), complies with the European standard for in-vitro fiber solubility.

[Isofrax](#) fiber is now available in several product forms to solve a range of high temperature insulation and heat processing problems:

- [Isofrax 1260°C \(2300°F\) Standard, Chopped, and LD Bulk Fibers](#)
- [Isofrax 1260°C high temperature insulation Blankets](#)
- [Isofrax 1260°C LD high temperature insulation Boards](#)
- [Isofrax 1260°C high temperature insulation Modules](#)
- [Isofrax 1260°C high temperature insulation Paper](#)

[Isofrax](#) fiber is also used in [Unifrax Isofoam®](#) unique new gunnable high temperature insulation furnace lining and repair formulation.

Unifrax International Sites



[Isofrax® High Temperature Insulation](#)

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Isofrax® AES Fiber High Temperature Insulation

[Isofrax](#) vitreous magnesium-silicate fiber exhibits improved in-vitro solubility characteristics compared to [Fiberfrax](#) refractory ceramic fibers, and improved thermal stability compared to [Insulfrax](#) AES fibers. In fact, [Isofrax](#) meets European regulatory requirements for synthetic vitreous high temperature insulation fibers, and is recommended for continuous use at temperatures up to 1260°C (2300°F).

[Isofrax](#) products are characterized by, low thermal conductivity, low heat storage, excellent thermal shock resistance, light weight, excellent chemical stability, and high strength & flexibility. Thermal stability and low density make [Isofrax](#) products ideal high temperature insulation materials. [Isofrax](#) also exhibits superior wetting resistance to corrosive molten aluminum alloys than traditional alumino-silicate refractory ceramic fibers.

Isofrax Insulation Products



Isofrax High Temperature Insulation Products by Unifrax

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Isofrax products are used in a wide range of applications including refractory linings, high temperature insulation & gasketing, heat shields & fire protection, and also molten metals transfer. Isofrax high temperature insulation is widely applied in manufacture and industry, including; metals processing, petrochemical & power, and ceramics & glass.

Isofrax AES Fiber [Product Information Sheet](#)
Isofrax AES Fiber [MSDS](#)

Isofrax[®] Bulk Fiber Insulation

Isofrax 1260°C Bulk Fiber Insulation



*Isofrax Loose Fiber
High Temperature Insulation*

Isofrax 1260°C Bulk Fibers are available in *Standard, Chopped, and LD* grades.

Isofrax Bulk Fiber applications include vacuum casting, refractory reinforcement, high temperature seals, and expansion joint packing up to 1260°C (2300°F).

Isofrax 1260°C Bulk Fiber [Product Information Sheet](#)
Isofrax 1260°C Bulk Fiber [MSDS](#)

Isofrax 1260°C Insulation Blankets

Isofrax 1260°C High Temperature Insulation Blankets are available in thicknesses from 0.5 - 2.0in, and densities from 6 - 8pcf. Extra long spun Isofrax fibers are cross-locked in a unique forming process to enhance the blankets tensile strength and eliminate the need for binders. This results in no outgassing or smoke generation upon heating Isofrax 1260°C Insulation Blanket.

Isofrax 1260°C Insulation Blanket is applied as high temperature insulation in the metal, petrochemical / power, ceramic & glass production industries. Isofrax has a temperature rating for use up to 1260°C (2300°F), but the blanket can withstand short-term excursions to higher temperatures - with moderate shrinkage.

Isofrax 1260°C Insulation Blanket has excellent chemical stability and is unaffected by most chemicals except hydrofluoric & phosphoric acids, and concentrated alkalis. Despite it's high in-vitro solubility, if Isofrax 1260°C is wet by water or steam, thermal and physical properties remain unaffected after drying. Isofrax 1260°C Insulation Blanket also provides superior resistance to attack from molten aluminum alloys at high temperatures.

Isofrax 1260°C Insulation Blanket [Product Information Sheet](#)
Isofrax 1260°C Insulation Blanket [MSDS](#)

Isofrax 1260°C Insulation Blanket



**Isofrax High Temperature
Insulation Blanket**

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Isofrax LD 1260°C Insulation Boards

Isofrax 1260°C Insulation Board



Isofrax LD High Temperature Insulation Board

Isofrax LD 1260°C High Temperature Insulation Board is the rigid, durable, product form of **Isofrax LD 1260°C high temperature insulation Fiber**.

Isofrax LD 1260°C High Temperature Insulation Boards are available in thicknesses from 0.25" to 4", and are recommended for continuous use at temperatures up to 1260°C (2300°F).

Isofrax LD 1260°C High Temperature Insulation Boards [MSDS](#)

Isofrax Anchor-Loc® 1260°C Insulation Modules

Isofrax Anchor-Loc® 1260°C High Temperature Insulation Modules are highly insulating units with multiple-attachment options designed to allow easy application on furnace walls, kilns, etc. **Isofrax 1260°C Modules** are manufactured in a range of sizes and several densities.

Compared with traditional refractory furnace linings, **Isofrax 1260°C high temperature insulation modules** provide several advantages - including: rapid temperature cycling, lower heat storage, lower fuel costs, increased productivity, lower installed cost, and rapid & easy repair.

Isofrax 1260°C High Temperature Insulation Modules are used in heat-treatment / annealing / process furnace linings, slab & ingot covers, Aluminum homogenizing furnace linings & ladle covers, personnel heat shields, flue stack & duct linings, and field steam generator linings.

Isofrax 1260°C Anchor-Loc Insulation Modules can be fitted with various **Unifrax** attachment options including: **Thread-Loc®**, **Screw-Loc®**, and **Weld-Loc®** Systems.

Isofrax 1260°C Anchor-Loc Insulation Modules [Product Information Sheet](#)
Isofrax 1260°C Anchor-Loc Insulation Modules [MSDS](#)

Isofrax Anchor-Loc 1260°C Insulation Modules



Isofrax Anchor-Loc 1260°C High Temperature Insulation Modules

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Isofrax High Temperature Insulation Paper

Isofrax Insulation Paper



*Isofrax 1260°C Paper
High Temperature Insulation*

Isofrax 1260°C High Temperature Insulation Paper is easily die cut and fabricated for a variety of thermal and high temperature insulation applications. **Isofrax 1260°C Insulation Paper** is uniquely manufactured by forming **Isofrax 1260°C Fiber** in a randomly oriented nonwoven sheet, bonded in a latex matrix. A specialized, statistically controlled paper-making process is utilized to form uniform, lightweight, flexible paper.

Isofrax 1260°C Insulation Paper exhibits excellent chemical stability and resistance to attack from most corrosive agents. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis. Compared to traditional refractory ceramic fiber products, **Isofrax 1260°C Insulation Paper** also provides superior wetting resistance to molten aluminum alloys at high temperatures.

Isofrax 1260°C Insulation Paper generates only minor amounts of smoke and trace element outgassing during initial exposure to temperatures above 230°C (446°F).

Isofrax 1260°C Insulation Paper [Product Information Sheet](#)
Isofrax 1260°C Insulation Paper [MSDS](#)

Isofrax Isofoam® Gunnable High Temperature Insulation

Unifrax Isofoam High Temperature Insulation is an advanced AES Fiber / Foam high temperature insulation form that can be used for upgrading existing furnace linings, as a veneer over hard refractory, lining / patches / refits, and full thickness furnace linings to 1260°C (2300°F).

Isofrax Isofoam Gunnable High Temperature Insulation is easily and quickly applied at rates up to 1000 board feet/hr. This monolithic high temperature insulation product complies with European in-vitro solubility regulations for vitreous high temperature insulation fibers.

Unifrax Foamfrax is a similar advanced fiber / foam high temperature insulation product, constituted with **Fiberfrax refractory ceramic fiber**, and suitable for service to 1538°C (2800°F).

Isofrax Isofoam High Temperature Insulation [Product Information Sheet](#)
Fiberfrax Foamfrax High Temperature Insulation [Product Information Sheet](#)
Isofrax Isofoam High Temperature Insulation [MSDS](#)
More [Fiberfrax Foamfrax & Isofrax Isofoam Information On The Web](#)
Fiberfrax Foamfrax & Isofrax Isofoam [Applications Case Study List](#)

Isofrax Isofoam



*Isofrax Isofoam Gunnable High
Temperature Insulation*

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High Temperature Solutions for Global Markets



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**Isofrax® Woven & Non-Woven
Materials For A Range Of
Industrial High Temperature
Insulation Applications**

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More Isofrax Vitreous AES Fiber High Temperature Insulation Information

**Isofrax®, Thread-Loc®, Screw-Loc®, Weld-Loc®, Anchor-Loc®, Isofoam®, Fiberfrax®, and Foamfrax®,
are all registered products of [Unifrax I LLC](#)**

Find out more about **Isofrax** vitreous AES fiber woven and non-woven materials
for your high temperature insulation, sealing, and filtering requirements:

Unifrax	High Temperature Insulation	Refractory Ceramic Fiber	Fyrewrap
Fiberfrax	Insulfrax	Isofrax	Foamfrax/Isofoam
Fiberfrax MSDS List	Insulfrax MSDS List	Isofrax MSDS List	Foamfrax/Isofoam Applications

Press Release: ['Isofrax High Temperature Insulation Technical Resource Online'](#)

For more about using Isofrax AES fiber in Your high temperature industrial applications [Contact Unifrax](#)

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