



High Temperature
Solutions For
Global Markets

Isofrax

**Isofrax Woven & Non-Woven Materials
For High Temperature Insulation,
Sealing, And Filtering Applications**

[European Isofrax Information](#)

Isofrax® High Temperature Solutions For Global Markets
Isofrax® is a registered product of Unifrax Corporation
On the web at: <http://www.unifrax.com>

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Isofrax Soluble Fiber High Temperature Insulation Products

[Unifrax Corporation](#) 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 soluble fiber, patented by Unifrax Corporation, complies with the European standard for 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 standard bulk Fiber
- Isofrax 1260°C chopped bulk Fiber
- Isofrax 1260°C LD bulk Fiber
- 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](#) revolutionary new gunnable high temperature insulation furnace lining and repair formulation.



Isofrax Soluble Fiber Properties & Applications

Isofrax vitreous magnesium-silicate fiber exhibits improved in-vitro solubility characteristics compared to [Fiberfrax](#) refractory ceramic fibers and improved thermal stability compared to [Insulfrax](#) soluble 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 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 Soluble Fiber Product Information Sheet](#)
[Isofrax Soluble Fiber MSDS](#)



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Isofrax Bulk Fibers

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

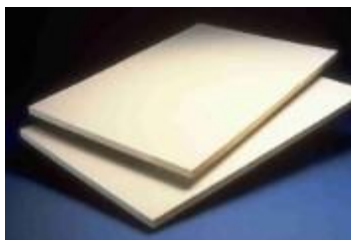
Isofrax 1260°C Blankets

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 blanket.

Isofrax 1260°C 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 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 Blanket also provides superior resistance to attack from molten aluminum alloys at high temperatures

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



Isofrax LD 1260°C 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 1260°C Boards MSDS](#)

Isofrax 1260°C Modules

Isofrax 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





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covers, personnel heat shields, flue stack & duct linings, and field steam generator linings.

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

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

Isofrax Paper



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 Paper is a 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 Paper exhibits excellent chemical stability and resistance to attack from most corrosive agents. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis. Isofrax 1260°C Paper also provides superior wetting resistance to molten aluminum alloys at high temperatures.

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

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

Unifrax Isofoam High Temperature Insulation

Isofoam High Temperature Insulation is an advanced soluble fiber / foam high temperature insulation that can be used for upgrading existing furnace linings, as a veneer over hard refractory, lining / patches /refits, and full thickness furnace linings.

Isofrax Isofoam gunnable high temperature insulation is easily and quickly applied at rates up to 1000 board feet. This monolithic high temperature insulation product complies with European regulations for vitreous soluble high temperature insulation fiber.

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](#)
Isofoam-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](#)



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More Isofrax Soluble Fiber High Temperature Insulation Information

Isofrax, Unifrax Isofoam, Anchor-Loc, Thread-Loc, Screw-Loc, and Weld-Loc are all registered trademarks of **Unifrax Corporation**

Find out more about **Isofrax** soluble 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 - Isofrax Technical Resource Online'](#)

Contact Unifrax Today to find out more about using revolutionary new Isofrax soluble fiber, or Isofoam advanced soluble fiber / foam high temperature insulation, in Your high temperature industrial applications

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