



High Temperature
Solutions For
Global Markets

Insulfrax

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

**Insulfrax® High Temperature Solutions For Global
Markets**

Insulfrax® is a registered product of Unifrax I LLC
On the web at: <http://www.unifrax.com>

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Insulfrax Soluble Fiber Products For High Temperature Insulation

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. [Insulfrax](#) soluble fiber complies with the European standard for fiber solubility. Insulfrax fiber is now available in several product forms to solve a range of high temperature insulation and heat processing problems:

- [Insulfrax Chopped & Unchopped Bulk Fiber](#)
- [Insulfrax S Blanket Insulation](#)
- [Insulfrax FyreWrap Marine Blanket \(USCG App'd\) Insulation](#)
- [Insulfrax FyreWrap Fire Protection Products](#)
- [Insulfrax 1100°C modules & Insulfrax Bonded 1100°C modules](#)
- [Insulfrax High Temperature Insulation Paper](#)

Insulfrax fiber is also used in [Fyrewrap](#)® duct insulation



Insulfrax Soluble Fiber Properties & Applications

Insulfrax calcium-magnesium-silicate fiber is recommended for continuous use at temperatures up to 1100°C (2012°F), and exhibits improved in-vitro solubility characteristics compared to [Fiberfrax Refractory Ceramic Fibers](#). Insulfrax meets European regulatory requirements for synthetic vitreous high temperature insulation fibers.

Insulfrax products are characterized by, low thermal conductivity, low heat storage, excellent thermal shock resistance, light weight and flexibility. These properties make Insulfrax products ideal for application as high temperature insulation. Insulfrax also exhibits superior wetting resistance to corrosive molten aluminum alloys than traditional alumino-silicate fibers.

Insulfrax 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. Insulfrax high temperature insulation is widely applied in manufacture and industry, including: metals processing, petrochemical, power, and ceramics & glass.



Insulfrax Soluble Fiber [Product Information Sheet](#)
Insulfrax Soluble Fiber [MSDS](#)



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Insulfrax Bulk Fibers



Insulfrax Bulk Fibers are available in chopped (Insulfrax 3011) and unchopped (Insulfrax 3010) grades. Insulfrax bulk fiber applications include vacuum casting, refractory reinforcement, fire protection of penetration seals, and expansion joint packing up to 1100°C (2012°F).

[Insulfrax Bulk Fiber Product Information Sheet](#)
[Insulfrax Soluble Fiber MSDS](#)

Insulfrax S Blanket & Insulfrax FyreWrap Marine Blanket Insulation

Insulfrax S Blanket Insulation is available in thicknesses from 0.5 - 2.0in, and densities from 4 - 8pcf. Mechanical needling of the Insulfrax fibers enhances the products tensile strength and eliminates the need for binders. This results in no outgassing or smoke generation upon heating Insulfrax 1800 blanket. Insulfrax 1800 blanket is classified per UL 723 (ASTM E-84) Flame Spread Rating = 0, Smoke Developed Rating = 0. Insulfrax S blanket is applied as high temperature insulation in the metal, petrochemical / power, ceramic & glass production industries - as well as in fire protection.

[Insulfrax S Blanket Insulation Product Information Sheet](#)
[Insulfrax S Blanket Insulation MSDS](#)

Insulfrax FyreWrap Marine Blanket is specifically designed to provide passive fire protection for marine applications. Insulfrax Marine Blanket allows for thermal and acoustical insulation with reduced structural weight. Insulfrax Marine Blanket is US Coast Guard approved for Steel and Aluminum vessels, complies with SOLAS safety objectives, and IMO FTP Code Fire Test Requirements. Insulfrax Marine Blanket is used to insulate bulkheads and decks on commercial and military vessels and also offshore structures.

[Insulfrax Marine Blanket Product Information Sheet](#)
[Insulfrax FyreWrap Marine Blanket MSDS](#)



Fyrewrap

Fyrewrap duct wraps, heat shields and fire-resistant products are manufactured with Insulfrax soluble fiber.

[Insulfrax FyreWrap Product Information Sheet Listing](#)
[Fyrewrap MSDS](#)
[More Fyrewrap Fire Protection Information On The Web](#)

Insulfrax 1100°C Insulation Modules & Bonded 1100°C Modules

Insulfrax 1100°C Insulation Modules are highly insulating units based on the range of Unifrax **Anchor-Loc**® multiple attachment systems, that are designed to allow easy application on furnace walls, kilns, etc. Insulfrax Anchor-Loc modules are manufactured in a range of sizes and several densities. Compared with traditional refractory furnace linings, Insulfrax 1100°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. Insulfrax 1100°C 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.





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Insulfrax 1100°C Insulation Modules can be fitted with various Unifrax attachment options: Thread-Loc®, Screw-Loc®, Power-Loc®, and Weld-Loc® Systems.

Insulfrax Bonded 1100°C Modules can either be mortared into place - as a hot face veneer over existing refractory, or installed with Hefty-Lock hardware - as a full thickness lining. Typical applications for Insulfrax Bonded 1800 high temperature insulation modules include heat-treatment furnaces, Aluminum processing furnaces and process heaters. Insulfrax Bonded 1800 modules are also applied with the Hefty Lock system in a wide range of applications, up to 1000°C (1832°F), including: stacks, ducts & flue linings, fume incinerators, etc.



Insulfrax 1100°C Insulation Modules [Product Information Sheet](#)
 Insulfrax 1100°C Insulation Modules [MSDS](#)
 Insulfrax Bonded 1100°C Insulation Modules [MSDS](#)



Insulfrax High Temperature Insulation Paper

Insulfrax High Temperature Insulation Paper is easily die cut and fabricated for a variety of thermal applications, including gaskets, aerospace heat shields, mold liners, refractory back-up insulation, etc. Insulfrax high temperature insulation paper is available in thicknesses of 1, 2, 3, 6mm, with density 9-10pcf.

Insulfrax Paper [Product Information Sheet](#)
 Insulfrax Paper [MSDS](#)

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More Insulfrax Soluble Fiber Information

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

Insulfrax, Fyrewrap, Anchor-Loc, Thread-Loc, Screw-Loc, Power-Loc, and Weld-Loc are all registered trademarks of **Unifrax I LLC**

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| 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: ['Insulfrax High Temperature Insulation Technical Resource Online'](#)

Contact Unifrax Today to find out more about using Insulfrax soluble fiber in Your high temperature industrial applications

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