

Insulfrax



High Temperature Solutions for Global Markets



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

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Insulfrax AES Fiber Products For High Temperature Insulation

[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. **Insulfrax Alkaline Earth Silicate (AES) Fiber** complies with the European standard for fiber solubility.

Insulfrax AES 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 Insulation](#)
- [Insulfrax Blanket Insulation](#)
 - [Insulfrax S Blanket Insulation](#)
 - [Insulfrax FyreWrap Marine Blanket \(USCG Approved\) Insulation](#)
- [Insulfrax FyreWrap Fire Protection Insulation Products](#)
- [Insulfrax Thermal Insulation Modules](#)
 - [Insulfrax 1100°C Modules](#)
 - [Insulfrax Bonded 1100°C Modules](#)
- [Insulfrax High Temperature Insulation Paper](#)

Insulfrax fiber is also used in [Fyrewrap® duct insulation & fire protection products](#)

INSULFRAX MSDS CENTER

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Insulfrax® High Temperature Insulation

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Insulfrax® AES Fiber High Temperature Insulation 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 fiber solubility.

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



Insulfrax High Temperature Insulation Products by Unifrax

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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 AES Fiber Insulation [Product Information Sheet](#)

Insulfrax AES Fiber Insulation [MSDS](#)

Insulfrax® Bulk Fiber Insulation

**Insulfrax
Bulk Fiber Insulation**



*Insulfrax Loose Fiber High
Temperature Insulation*

Insulfrax Bulk Fibers are available in 2 grades:

Chopped Fibers - **Insulfrax 3011**

Unchopped Fibers - **Insulfrax 3010**

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 Fibers [Product Information Sheet](#)

Insulfrax AES Fiber [MSDS](#)

Insulfrax® S Fiber Blanket Insulation

Insulfrax S Blanket Insulation is available in thicknesses of 0.5, 1.0, 1.5, or 2.0in, and densities of 4, 6 or 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 S Blanket**.

Insulfrax S Blanket is classified per UL 723 (ASTM E-84) Flame Spread Rating = 0, Smoke Developed Rating = 0.

Insulfrax S Blanket Insulation is applied as high temperature insulation in the metal, petrochemical / power, ceramic & glass production industries - as well as in [FyreWrap fire protection insulation products](#).

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

Insulfrax S Blanket Insulation [MSDS](#)

Insulfrax S Blanket Insulation



*Insulfrax S High Temperature
Insulation Blanket*

FyreWrap® Marine Blanket Insulation

FyreWrap Marine Blanket is made from **Insulfrax** fiber and is specifically designed to provide passive fire protection for marine applications - allowing for thermal and acoustical insulation with reduced structural weight.

FyreWrap Marine Blanket is US Coast Guard approved for Steel and Aluminum vessels, complies with SOLAS safety objectives, and IMO FTP Code Fire Test Requirements.

FyreWrap Marine Blanket is used to insulate bulkheads and decks on commercial and military vessels and also offshore structures.

FyreWrap Marine Blanket [Product Information Sheet](#)

FyreWrap Marine Blanket [MSDS](#)

**FyreWrap
Marine Blanket Insulation**



*FyreWrap Marine Blanket is made with
Insulfrax fiber and is USCG Approved*

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FyreWrap® Fire Protection Insulation Products

FyreWrap Fire Protection Products



FyreWrap Fire Protection Products Use Insulfrax Fiber

FyreWrap duct wraps, heat shields and fire-resistant products are manufactured with Insulfrax AES high temperature insulation fiber.

Insulfrax - FyreWrap [Product Information Sheets Listing](#)
Insulfrax - FyreWrap [MSDS](#)

[More FyreWrap Fire Protection Information On The Web](#)

Insulfrax 1100°C Insulation 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 1100°C Insulation Modules are manufactured in a range of sizes and are available in 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 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.

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

Insulfrax Bonded 1100°C Insulation Modules

Insulfrax Bonded 1100°C Insulation 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 1100°C Insulation Modules include heat-treatment furnaces, Aluminum processing furnaces and process heaters.

Insulfrax Bonded 1100°C Insulation Modules are also applied with the Hefty Lock system in a wide range of applications, up to 1100°C (2012°F), including: stacks, ducts & flue linings, fume incinerators, etc.

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

Insulfrax 1100°C Insulation Modules



*Insulfrax 1100°C
Insulation Modules*

Insulfrax Bonded 1100°C Insulation Modules



*Insulfrax Bonded 1100°C
Insulation Modules*

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Insulfrax High Temperature Insulation Paper

Insulfrax High Temperature Insulation Paper



Insulfrax Insulation Paper Is Easily Die Cut & Fabricated

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

Insulfrax

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

Insulfrax Customer Service Dept.

Unifrax Corporate Headquarters

2351 Whirlpool Street
Niagara Falls, NY, 14305-2413, USA
Tel: (716) 278 3800, Fax: (716) 278 3900
e-mail: info@unifrax.com
web: <http://www.unifrax.com>

More Insulfrax AES Fiber High Temperature Insulation Information

Insulfrax®, FyreWrap®, Anchor-Loc®, Thread-Loc®, Screw-Loc®, Power-Loc®, and Weld-Loc® are all registered products of [Unifrax I LLC](#)

Find out more about **Insulfrax** vitreous 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: ['Insulfrax High Temperature Insulation Technical Resource Online'](#)

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