



High Temperature
Solutions For
Global Markets

Isofrax Europe

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

[<< Isofrax N AMERICA](#)

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 Fibre High Temperature Insulation Products

[Unifrax Corporation](#) has manufactured refractory ceramic fibre [high temperature insulation](#) products since 1942. However, with Directive 97/69/EC, the European Community established new regulations for synthetic glass fibres that requires users to seek more soluble alternatives to refractory ceramic fibre. The revolutionary new Isofrax soluble fibre, patented by Unifrax Corporation, complies with the European standard for in-vitro fibre solubility. Isofrax fibre is now available in several product forms to solve a range of high temperature insulation and heat processing problems:

- [Isofrax 1260°C Standard Bulk, Chopped, and LD Bulk Fibre](#)
- [Isofrax 1260°C high temperature insulation Blankets](#)
- [Isofrax 1260°C high temperature insulation Boards](#)
- [Isofrax 1260°C high temperature insulation Modules](#)
- [Isofrax 1260°C high temperature insulation Paper](#)
- [Isofrax 1260°C Rigiiform & Flexiform Shapes](#)
- [Isofrax 1260°C Mastics](#)

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



Isofrax Soluble Fibre Properties & Applications

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

Isofrax products are characterised 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 fibres.

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 Fibre [Product Information Sheet](#)
Isofrax Soluble Fibre [European MSDS](#)



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Isofrax Bulk Fibres

Isofrax 1260°C Bulk Fibres 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 Fibre [European Product Information Sheet](#)
Isofrax Bulk Fibre [European MSDS](#)

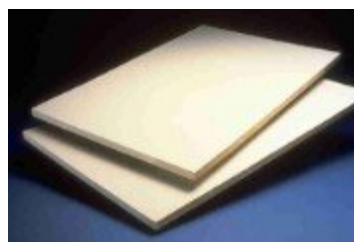
Isofrax 1260°C Blankets

Isofrax 1260°C High Temperature Insulation Blankets are available in thicknesses from 13 – 50mm, and densities from 96 – 160kg/m³. Extra long spun Isofrax fibres 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 its 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 [European Product Information Sheet](#)
Isofrax 1260°C Blanket [European MSDS](#)



Isofrax 1260°C Insulation Boards

Isofrax 1260°C High Temperature Insulation Board is the rigid, durable, product form of Isofrax 1260°C high temperature insulation fibre. Isofrax 1260°C high temperature insulation boards meet German and European regulatory requirements for solubility in body fluids, and are available in thicknesses from 5 – 50mm. Isofrax board products are recommended for continuous use at temperatures up to 1260°C.

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

Isofrax 1260°C Modules: Isofrax Prismo-Block™ Modules, Isofrax Bonded 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.





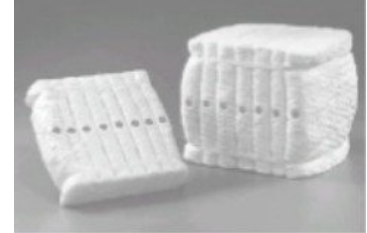
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Isofrax 1260°C High Temperature Insulation Modules are used in heat-treatment / annealing / process furnace linings, slab & ingot covers, Aluminum homogenizing furnace linings & ladle covers, personnel heat shields, flue stack & duct linings, and field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

Isofrax 1260°C Prismo-Block™ Modules are produced with various Unifrax anchoring systems to enable quick, easy and efficient installation in most furnace linings.

Isofrax 1260°C Bonded Modules consist of strips of Isofrax blanket edge-stacked and glued together.

Isofrax 1260°C Modules [European Product Information Sheet](#)
Isofrax soluble Fibre [Europe MSDS](#)



Isofrax 1260°C Papers & Felts

Isofrax 1260°C High Temperature Insulation Papers & Felts are easily die cut and fabricated for a variety of thermal and high temperature insulation applications. These Isofrax products exhibit excellent chemical stability and resistance to attack from most corrosive agents. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis. Isofrax 1260°C Papers & Felts also provide superior wetting resistance to molten aluminum alloys at high temperatures and generate only minor amounts of smoke and trace element outgassing during initial exposure to temperatures above 230°C.



Isofrax 1260°C Paper is uniquely manufactured by forming Isofrax 1260°C Fibre 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. Available in thicknesses from 1 – 6mm.

Isofrax 1260°C Felt is manufactured by taking long, spun Isofrax fibres and incorporating them in wet forming process, producing a flexible product with good handling strength. Available in thicknesses from 3 – 25mm.

Isofrax 1260°C Paper [European Product Information Sheet](#)
Isofrax 1260°C Felt [European Product Information Sheet](#)
Isofrax Soluble Fibre [Europe MSDS](#)

Unifrax Isofoam High Temperature Insulation

Unifrax Isofoam High Temperature Insulation is an advanced soluble fibre / 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.

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

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

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

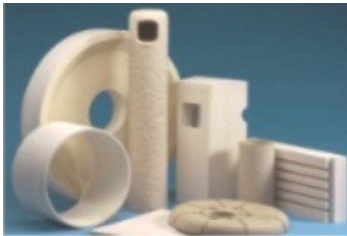




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Isofrax 1260°C Rigiform™ & Flexiform™ Shapes

Isofrax Rigiform & Flexiform shapes are produced by wet mixing Isofrax bulk fibres with selected organic and inorganic binders. This production method and our subsequent reprocessing facilities allow us the opportunity to vary composition, thickness, density, hardness and quality of finish to suit specific application requirements.



Isofrax Rigiform & Flexiform shapes find application as boiler combustion chamber linings, petrochemical reformer tube seals and peepholes, back-up to insulating brick/castable linings, snorkel protection in steel continuous casting, steel sampling sleeves and thermocouple protection, cooker element supports, and various gas fire parts.

Isofrax Rigiform shapes are typically available in thicknesses ranging from 5mm to 200mm, depending on the size and geometry of the piece.

Isofrax Flexiform shapes are manufactured in thicknesses from 5mm to 100mm, depending on piece size/geometry.

Isofrax Rigiform & Flexiform [European Product Information Sheet](#)
Isofrax Soluble Fibre [European MSDS](#)

Isofoam 1260°C Mastics

Isofoam 1260°C Mastics are newly developed insulating products for use in high temperature industrial applications where patching and filling of voids is required. Isofrax 1260°C Mastics show good strength and resistance to shrinkage in operational environments and are easy to install.

Isofrax Pumpable Mastic is a pumpable product designed for use with a variety of hand operated and pneumatic applicators. Typical applications include: hot or cold repairs of boilers, caulking of expansion joints and cracks in anode baking pits, and insulation of furnace penetrations (e.g. tubes, tube hangers & thermocouples).

Isofrax Moldable Mastic is a moldable putty-like product which requires drying to produce a hard surfaced, low shrinkage insulator. Typical applications include: incinerator packing/insulation, general packing applications piece moulding.



Isofrax 1260°C Mastic [European Product Information Sheet](#)
Isofrax Soluble Fibre [European MSDS](#)

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More Isofrax Soluble Fibre High Temperature Insulation Information

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

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

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

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