High Temperature Solutions For Global Markets

Isofrax

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

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Isofrax ® High Temperature Solutions For Global Markets
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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 (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 1000°C QSP Automotive Exhaust Insulation
- Isofrax IsoMat & IsoMax Catalytic Converter Support Systems

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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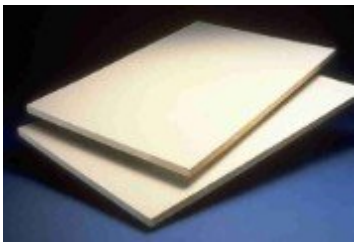
Isofrax Bulk Fibers

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 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 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 alkalies. 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



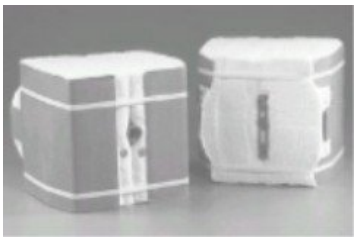
Isofrax LD 1260°C Board

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 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

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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

Isofrax QSP TRUE GREEN Automotive Exhaust Insulation

Isofrax QSP TRUE GREEN Automotive Exhaust Insulation is a certified "True Green" insulation mat that was specifically designed to provide thermal management and noise reduction throughout the auto exhaust system. Isofrax QSP Automotive Exhaust Insulation is available in 6mm nominal thickness, features high tensile strength, and, with only 4-7% loss on ignition, may be applied to 1000°C (1832°F).

Isofrax QSP Automotive Exhaust Insulation Product Information Sheet
Isofrax QSP Automotive Exhaust Insulation MSDS

Isofrax IsoMat & IsoMax TRUE GREEN Automotive Catalytic Converter Insulation / Support Mat Systems

Isofrax IsoMat AV5 TRUE GREEN substrate for automotive catalytic converter applications, was specifically designed to function as mechanical support for the ceramic substrate, and to act as an exhaust gas seal while providing thermal insulation. Isofrax IsoMat AV5 offers superior performance at low temperatures and has excellent thermal stability with a continuous use temperature of **750°C (1382°F)** average mat temperature (Reference SAE Paper 2007-01-0471).

Isofrax IsoMat AV5 is an ideal solution for a wide range of emission control devices, including large diesel oxidation catalysts (DOC), diesel particulate filters (DPF), and selective catalyst reduction units (SCR), as well as gasoline oxidation catalysts, including ethanol (flex fuel) underbody converters.

Isofrax IsoMax 1 TRUE GREEN support mat system offers excellent thermal stability up to **750°C (1382°F)** substrate skin temperature, and is capable of withstanding high-temperature excursions associated with diesel particulate filter regenerations. IsoMax 1 is therefore an ideal solution for a wide range of emission control devices, including large diesel oxidation catalysts (DOC), diesel particulate filters (DPF), selective catalyst reduction units (SCR), NOx traps and catalysts, as well as gasoline oxidation catalysts including ethanol or flex fuel underbody converters.

Isofrax IsoMat AV5 Product Information Sheet
Isofrax IsoMat AV5 MSDS
Isofrax IsoMax 1 Product Information Sheet
Isofrax IsoMax 1 MSDS

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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 feethr. 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

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