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Contact your local distributor.*

Unifrax Ltd.

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DESCRIPTION

Isofrax 1260°C Rigiform & Flexiform shapes are manufactured from Isofrax alkaline earth silicate wool, blended with specially selected organic and/or inorganic binders to give rigid or flexible insulating shapes with exceptional characteristics. The vacuum forming manufacturing method permits considerable freedom to vary shape, thickness and density. Isofrax 1260°C Rigiform & Flexiform shapes often provide the most economical answer to producing large quantities of parts in simple or complex configurations for a wide range of high temperature applications.

GENERAL CHARACTERISTICS

Isofrax 1260°C Rigiform & Flexiform shapes have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- Lightweight
- Complex shape capability

TYPICAL APPLICATIONS

- Boiler combustion chamber linings
- Gas fire parts
- Nozzle protection in steel continuous casting
- Petrochemical reformer tube seals & protection

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

ISOFRAX 1260°C RIGIFORM & FLEXIFORM

Isofrax 1260°C Rigiform shapes contain a small percentage of organic binder in addition to inorganic hardening agents. Therefore the products display uniform hardness and density as well as exceptional handling strength. Rigiform shapes can be finished using our in-house machining facilities. Further treatment is possible to increase hardness and remove organics prior to use. Pre-firing can be carried out at either 800°C or 1200°C.

Isofrax 1260°C Flexiform shapes are highly flexible products containing selected organic binders. This high degree of flexibility gives excellent compressive recovery characteristics and ease of installation in applications where a rigid shape would prove unsuitable.

TYPICAL PRODUCT PARAMETERS

Isofrax 1260°C	Rigiform	Flexiform
Typical Chemical Analysis (fibre wt.%)		
SiO ₂	70.0 - 80.0	70.0 - 80.0
MgO	18.0 - 27.0	18.0 - 27.0
Trace	<4.0	<4.0
Physical Properties		
Colour	White	White
Melting Point (°C)	>1500	>1500
Density (kg/m ³) *	250 - 400	150 - 250
Loss on ignition (wt.%)	<10.0	<10.0
Thermal Conductivity (W/mK)		
Mean Temp.		
600 °C	0.10	0.11
800 °C	0.15	0.15
1000 °C	0.21	0.20

Isofrax products are suitable for a variety of high temperature applications. For specific advice on application and operational temperature limits please contact your nearest Unifrax Engineering office.

*Density is indicative and relates to product characteristics before any secondary treatment. Actual density is dependent on piece size and geometry.

Where appropriate Physical Properties and Thermal Conductivity Data measured according to EN 1094-1.

AVAILABILITY

Isofrax 1260°C Rigiform & Flexiform shapes are engineered to specific customer requirements and are therefore made to order. Please contact your local Unifrax sales office to discuss your particular requirements. Rigiform shapes are typically available in thicknesses ranging from 5mm to 200mm depending on the size and profile of the piece. Flexiform shapes are typically available in thicknesses ranging from 5mm to 100mm again depending on the size and profile of the piece.

Packaging is either in cardboard cartons or shrink wrapped on pallets.

HANDLING INFORMATION

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

Supplied by: