

Isofrax® 1260C is a revolutionary new fibre with a unique, patented silica-magnesia chemistry. Designed to be used in a wide variety of demanding, high temperature applications, Isofrax has very high solubility in simulated body fluids and meets the European and German regulatory requirements.

Isofrax 1260C Bulk and Chopped Fibres are manufactured on a proprietary mechanical spinning process using the latest process control technology. Isofrax 1260C Bulk and Chopped Fibres have excellent chemical stability and are unaffected by most chemicals except hydrofluoric acid, phosphoric acid and strong alkalis. They may be reprocessed into Boards, Papers, Felts, Vacuum Formed Shapes, Mixes and Textiles.



GENERAL CHARACTERISTICS

Isofrax 1260C Bulk and Chopped Fibres have these outstanding characteristics:

- High temperature stability (up to 1260°C)
- Low thermal conductivity
- Easy to process
- Excellent corrosion resistance
- Good thermal shock resistance
- Low forming times

Typical Chemical Analysis (weight %)

SiO ₂	70.0 – 80.0
MgO	18.0 – 27.0
Trace	< 4.0

TYPICAL PRODUCT PARAMETERS

Physical Properties

Colour	Bluish-white
Melting Point	> 1500°C
Mean Fibre Diameter	4.0 – 4.5 microns
Fibre index	> 40
Average Settle Volume (S17)	450

Thermal Conductivity Data (W/mk)

Density (kg/m ³)	128*
400°C Mean Temp.	0.095
600°C Mean Temp.	0.140
800°C Mean Temp.	0.195
1000°C Mean Temp.	0.270

*Data based on results of 128kg/m³ Isofrax Blanket testing

Where appropriate Physical Properties and Thermal Conductivity Data measured according to ENV 1094 - 7:1994

Typical Applications

- Feedstock for vacuum forming and other wet processes
- Feedstock for high temperature textile manufacture
- Kiln car infill
- Packing expansion joints (eg carbon baking pits)
- Reinforcement in refractory mixes
- Thixotropic agent (High Index bulk fibre)
- Tube seals

Availability

- Isofrax Bulk and Chopped Fibres are available in standard 20 kg plastic bales.
- Non-standard bales or other packaging/weights available on request subject to order.

Isofrax Bulk and Chopped Fibres use a standard system of nomenclature employed for all Unifrax fibres, based on chemistry and relative fibre length. The regular Isofrax Bulk fibre is defined as S17, the Medium Chopped fibre as S173 and the Fine Chopped fibre as S172. Special grades (eg for textile conversion or as thixotropic additives) have their own reference number. Please contact your nearest Unifrax office for further details.

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Handling Information

A Material Safety Datasheet is available for this product.



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