Isofrax® 1260C Blanket

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 Blanket is manufactured by taking long, spun Isofrax fibres and cross-locking them through a unique forming process, producing a totally inorganic flexible product with good handling strength. Isofrax 1260C Blanket has excellent chemical stability and is unaffected by most chemicals except hydrofluoric acid, phosphoric acid and strong alkalis.

GENERAL CHARACTERISTICS

Isofrax 1260C Blanket has these outstanding characteristics:

- High temperature stability (up to 1260ºC)
- Low thermal conductivity
- Good handling strength
- Easy to cut
- Excellent corrosion resistance
- Low heat storage
- Good thermal shock resistance
- Good flexibility
- Low weight

Typical Chemical Analysis (Fibre wt. %)

SiO_2	70.0 – 80.0
MgO	18.0 – 27.0
Trace	< 4.0

TYPICAL PRODUCT PARAMETERS

Physical Properties

Colour		Bluish-white
Melting Point		> 1500ºC
Mean Fibre Diameter		4.0 – 4.5 microns
Average Tensile Strength	*96kg/m³*	25 kPa
	128kg/m³	30 kPa

Compression Recovery

(unfired)	128kg/m³
10% compression	96% recovery
30% compression	89% recovery
50% compression	78% recovery

Thermal Conductivity Data (W/mK)

Density (kg/m³)	96	128	160
400°C Mean Temp.	0.102	0.095	0.087
600°C Mean Temp.	0.153	0.140	0.130
800°C Mean Temp.	0.220	0.195	0.180
1000°C Mean Temp.	0.305	0.270	0.250

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

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Any new and/or special use of these products, whether or not in an application listed in this datasheet, must be submitted to our technical departement for their prior written approval.
Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation.

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Typical Applications

- High temperature kiln and furnace linings
- Furnace door linings and seals
- Weld stress relief
- Back-up lining to refractory brick/castable
- Cooling covers
- Heat shields
- Crucible furnace lids

Availability

Standard thicknesses (mm)	**13**	**25**	**38**	**50**
Standard roll lengths (m)	**14.64**	**7.32**	**5.00**	**3.66**
96 kg/m³	✓	✓	✓	✓
128 kg/m³	✓	✓	✓	✓
160 kg/m³	✓	✓		

Standard roll widths are 610mm and 1220mm
Other thickness/density variations subject to order
A version with aluminium foil applied to one or both faces (Isofrax SF) is also subject to order
Additional coatings/coverings applied to order

Supplied by:

Handling Information

A Material Safety Datasheet is available for this product.

CICS APPROVED

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