

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 Paper is manufactured by taking long, spun Isofrax fibres and incorporating them in a wet forming process, producing a thin, flexible product reduced shot content and good handling strength. Isofrax 1260C Paper has excellent chemical stability and is unaffected by most chemicals except hydrofluoric acid, phosphoric acid and strong alkalis.



GENERAL CHARACTERISTICS

Isofrax 1260C Paper has these outstanding characteristics:

- High temperature stability (up to 1260°C)
- Low thermal conductivity
- Good handling strength
- Easy to cut
- Low shot content
- Low heat storage
- Good thermal shock resistance
- Good flexibility

Typical Chemical Analysis (Fibre wt. %)

| | |
|-------------------------|-----------------|
| SiO ₂ | 70.0 - 80.0 |
| MgO | 18.0 - 27.0 |
| Trace | < 4.0 |
| Loss on Ignition | < 10% |

TYPICAL PRODUCT PARAMETERS

Physical Properties

| | |
|---------------------------------------|-----------------------|
| <i>Colour</i> | White |
| <i>Melting Point</i> | > 1500°C |
| <i>Mean Fibre Diameter</i> | 4.0 - 4.5 microns |
| <i>Average Tensile Strength (3mm)</i> | 350 kPa |
| <i>Density</i> | 150 kg/m ³ |

| % Deformation | Compressive Strength |
|-----------------|----------------------|
| 10% compression | 11 kPa |
| 30% compression | 32 kPa |
| 50% compression | 175 kPa |

Thermal Conductivity Data (W/mK)

| | |
|--------------------------|------|
| <i>400°C Mean Temp.</i> | 0.08 |
| <i>600°C Mean Temp.</i> | 0.11 |
| <i>800°C Mean Temp.</i> | 0.16 |
| <i>1000°C Mean Temp.</i> | 0.21 |

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

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 department for their prior written approval.

Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation.

Typical Applications

- Automotive and aerospace heat shields
- Gaskets for ovens, stoves, heaters and other applications
- Back-up insulation for ladles, glass tanks and launder systems
- Automotive exhaust insulation
- Insulating wrap for shrouds/stopper rods in steel manufacture
- Investment casting for mould wrap
- Thermocouple tube protection

Availability

| Thickness | 1 mm | 2 mm | 3 mm | 4 mm | 5 mm | 6 mm |
|-----------|------------------------|------|------|------|------|------|
| Width | Roll length (m) | | | | | |
| 610 mm | 125 | 60 | 35 | 25 | 20 | 15 |
| 1000 mm | 380 | 180 | 110 | 80 | 60 | 45 |
| 1260 mm | 380 | 180 | 110 | 80 | 60 | 45 |

Other thickness/width/length variations subject to order.