

# Product Information Sheet

**Isofrax®**

## Isofrax® 880 Paper

### Description

Isofrax® 880 Paper is manufactured from Isofrax alkaline earth silicate wool, blended with specially selected organic binders to produce a flexible paper with exceptional characteristics.

Isofrax® 880 Paper is produced using advanced production techniques. This product combines a unique formulation, based on reduced diameter fibre and high lay-up density. These product parameters lead to reduced service shrinkage, higher strength, high temperature stability and improved chemical resistivity.

The superior durability of this product allows for its use in extremely demanding applications (particularly within the metallurgical industries) where standard Isofrax Paper would not provide the same level of performance or service life.

### General Characteristics

Isofrax 880 Paper has the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Thermal shock resistance
- Low heat storage
- Good handling strength
- Lightweight
- Flexibility
- Easy to wrap, shape and cut



### Isofrax 880 Paper

Innovative production techniques ensure that Isofrax 880 Paper is supplied with a highly uniform structure and a smooth surface. This is enhanced by low thermal conductivity, good handling and service strength.

### Typical Applications

- Insulation for the preheating of refractory shapes
- Hot Top mould liner for D.C. (direct chill) casting of aluminium rolling slabs

Information on other applications available upon request. Any new and/or special use of these products, whether or not in an application listed in our literature, is advised to be submitted to our Application Engineering department for review and guidance on material selection.

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### Typical Product Parameters

Isofrax	880 Paper
Typical Chemical Analysis (fibre wt. %)	
SiO <sub>2</sub>	70 – 80
MgO <sub>2</sub>	>18 – 27
Other Oxides	<4
Physical Properties	
Colour	White/Cream
Use Limit (°C)*	1260
Melting Point (°C)	>1500
Product Density (kg/m <sup>3</sup> )	290 – 350
Tensile Strength (kPa)	800
Mean Fibre Diameter (microns)	0.5 – 2.5
Loss on ignition (wt. %)	6.0 – 12.0

\*Use limit refers to the maximum short-term temperature limit. The maximum continuous use limit for boards depends upon application conditions. For certain applications, continuous use temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.

Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

Where appropriate Physical Properties data measured **according to EN 1094-1**.

### Availability

#### Current standard roll dimensions:

3 x 610 x 35000mm

3 x 1220 x 35000mm

Other roll size variations available subject to minimum order requirements.

### Handling Information

A Safety Data Sheet (SDS) 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.

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The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

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Unifrax I LLC  
Corporate Headquarters  
600 Riverwalk Parkway  
Suite 120  
Tonawanda, NY 14150 USA  
Telephone: 716-768-6500  
Internet: [www.unifrax.com](http://www.unifrax.com)  
Email: [info@unifrax.com](mailto:info@unifrax.com)



Unifrax I LLC  
European Sales &  
Marketing Headquarters  
Unifrax Limited  
Mill Lane, Rainford,  
St. Helens, Merseyside  
England, WAI1 8LP  
Telephone: +44 (0)1744 887600

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