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Unifrax Ltd.

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DESCRIPTION

Flexilite-MC Paper is based on an innovative new fibre from Unifrax with exclusive, patented silica-magnesia chemistry. The fibre employed has very high solubility in simulated body fluids and meets the European and German regulatory requirements. Flexilite-MC Paper made using a combination of special spun fibres and binders within a wet forming process to produce a thin, flexible product with reduced shot content and good handling properties. This product has been developed as part of the Flexilite-MC System used for 'hot top' insulation of ingot moulds. Flexilite-MC Paper is supplied in strips and is used to supplement Flexilite-MC Felt. It provides a strategic seal over the joints in the felt during installation and is held in place using Flexilite-MC Cement, another component of the Flexilite-MC System. The excellent handling strength, superior flexibility and custom roll size all combine to provide simple installation. This ensures that Flexilite-MC Paper can be used quickly and effectively when required.

GENERAL CHARACTERISTICS

Flexilite-MC Paper has the following outstanding characteristics:

- High temperature stability (up to 1260°C)
- Low thermal conductivity
- Superior handling strength
- Ease of installation and removal
- Good thermal shock resistance
- Excellent flexibility

TYPICAL APPLICATIONS

- Joint sealing of Flexilite-MC Felt for 'hot top' ingot mould casting

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.

TYPICAL PRODUCT PARAMETERS

Flexilite-MC Paper	
Typical Chemical Analysis (fibre wt. %)	
SiO ₂	70.0 - 80.0
MgO	>18.0 - 27.0
Trace	<4.0
Physical Properties	
Colour	White
Melting Point (°C)	>1500
Product Density (kg/m ³)	150
Tensile Strength (kPa)	350
Mean Fibre Diameter (microns)	4.5
Loss on Ignition (wt.%)	<10.0
Thermal Conductivity (W/mK)	
Mean Temp.	
400 °C	0.08
600 °C	0.11
800 °C	0.16
1000 °C	0.21

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

AVAILABILITY

Thickness (mm)	Flexilite-MC Paper	Roll Length (m)
	Roll Width (mm)	50
2	✓	10

Other thicknesses / sizes may be available on request subject to minimum order requirements.

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:

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