



DESCRIPTION

This niche product incorporates a revolutionary new fibre with unique, 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 Felt is made using a combination of special spun fibres and our unique binder system within a wet forming process. The result is a product that exhibits advanced flexibility with exceptional handling strength. The advanced production process we employ combined with our specialist treatment method used in the manufacture of Flexilite-MC Felt combine to deliver a product that is ideally suited for the 'hot top' insulation of ingot moulds. The high temperature resistance, low thermal conductivity and superior flexibility provide advanced performance in this demanding application. Its lightweight properties provide ease of handling during installation and removal after use.

GENERAL CHARACTERISTICS

Flexilite-MC Felt has the following outstanding characteristics:

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

TYPICAL APPLICATIONS

- 'Hot top' insulation for steel ingot moulds

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.

*Start saving energy now.
Contact your local distributor.*

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The Unifrax logo consists of the word "UNIFRAX" in a bold, white, sans-serif font. The letters are set against a dark blue background that is part of a larger graphic element resembling a stylized 'U' or a corner of a box.

TYPICAL PRODUCT PARAMETERS

Flexilite-MC Felt	
Typical Chemical Analysis (fibre wt. %)	
SiO ₂	70.0 - 80.0
MgO	>18.0 - 27.0
Trace	<4.0
Physical Properties	
Colour	White / Tan
Melting Point (°C)	>1500
Product Density (kg/m ³)	170 - 270
Tensile Strength (kPa)	>50
Mean Fibre Diameter (microns)	4.5
Loss on Ignition (%)	<10.0
Thermal Conductivity (W/mK)	
Mean Temp.	
400 °C	0.08
600 °C	0.11
800 °C	0.15
1000 °C	0.20

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.

INSTALLATION

Flexilite-MC Felt is supplied in pre-cut sheets and installed simply, by bonding the felt to the upper section of the mould face using Flexilite-MC Cement. This cement is supplied pre-mixed and only requires stirring of the contents before use. Joints in the felt can be covered using Flexilite-MC Paper, supplied in 50mm wide strips, 10 metres long for ease of handling during installation.

AVAILABILITY

Thickness (mm)	Flexilite-MC Felt
18	✓
25	✓

Sheet sizes to order.
Maximum Length = 2500mm, Maximum Width = 1250mm.
Typical sheet size is 1500 x 500mm.
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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