Saffil® & M-Fil Anchor-Loc® Modules

DESCRIPTION

Saffil & M-Fil Anchor-Loc Modules are manufactured from polycrystalline fibre into a standard edge-stacked construction format. These prefabricated anchored modules are specifically designed to meet the thermal insulation requirements of industrial furnaces, kilns and heaters. Saffil & M-Fil Anchor-Loc Modules can be produced with various anchoring systems to enable quick, easy and efficient installation for most lining applications. The Module range offers effective engineered solutions to thermal management problems in many industry sectors.

GENERAL CHARACTERISTICS

Saffil & M-Fil Anchor-Loc Modules have the following outstanding characteristics and advantages:

- Very high temperature stability
- Low thermal conductivity & heat storage
- Resistance to thermal shock & chemical attack
- Lightweight
- Fast installation & selection of attachment designs

TYPICAL APPLICATIONS

Petrochemical

- Furnaces & Fired heaters

Metallurgy

- Heat treatment & Forge furnaces
- Ladle & Soaking pit covers

Ceramic

- Tunnel kilns & Intermittent kilns

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Contact your local distributor.

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TYPICAL PRODUCT PARAMETERS

Saffil fibre modules	Saffil	M-Fil
Typical Chemical Analysis (fibre wt. %)		
Al_2O_3	95-97	≥ 72.0
SiO_2	$Al_2O_3+SiO_2$ ≥ 99.0	$Al_2O_3+SiO_2$ ≥ 99.0
Physical Properties		
Colour	White	White
Product Density (kg/m^3)	130	130
Use Limit (°C) *	1500	1500
Classification Temperature (°C) ‡	1600	1600
Permanent Linear Shrinkage (%) 24 hour soak		
1500 °C	< 4.0	< 4.0

*The maximum continuous use limit temperature for these products depends upon operating and application conditions. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office. Where appropriate Physical Properties are measured according to EN 1094-1.

‡ Based on classification temperature of the fibre in blanket form.

AVAILABILITY STANDARD SIZE

Standard Module Dimensions (mm)		
Length	Width	Thickness
300	300	300

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

Anchor systems available include:
RX2 = Side fixing system: Standard grade AISI 321
TL = Thread-Loc. Centre fixing system: Standard grade AISI 304

THERMAL CONDUCTIVITY DATA (W/mK)

Mean Temp. (°C)	Density (kg/m^3)	
	Saf 130	M-Fil 130
600	0.12	0.12
800	0.18	0.18
1000	0.28	0.28
1200	0.43	0.43

Thermal Conductivity figures are empirical values based on experience.

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: