

# Product Information Sheet

**Fiberfrax®**

## Fiberfrax® MX Products

### Description

Fiberfrax MX products are specialized high performance insulation materials manufactured from refractory ceramic fibre. Fiberfrax MX products are available as an anchored module lining system for high temperature furnace applications. They are also available as bonded modules for use as a hot face veneer. Fiberfrax MX products are noted for their exceptional high temperature stability, exceeding that of traditional ceramic fibres. They are therefore particularly suited to applications such as porcelain kilns or forge furnaces where temperatures may approach 1450°C.

### General Characteristics

Fiberfrax MX products have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity & heat storage
- Resistance to thermal shock & chemical attack
- Low shrinkage



### Typical Applications

#### Ceramic

- Porcelain, Stoneware & Refractory kilns

#### Metallurgy

- Heat treatment & Forge furnaces
- Hot dip galvanising furnaces

#### Petrochemical

- Furnaces & Fired heaters

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.

**ALKEGEN**

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### Typical Product Parameters

MX Modules	Bonded	Anchor-Loc
<b>Typical Chemical Analysis (fibre wt. %)</b>		
SiO <sub>2</sub>	52.0 – 56.0	52.0 – 56.0
Al <sub>2</sub> O <sub>3</sub>	28.0 – 32.0	28.0 – 32.0
ZrO <sub>2</sub>	14.0 – 18.0	14.0 – 18.0
Fe <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>	<0.2	<0.2
Alkalis	<0.25	<0.25
<b>Physical Properties</b>		
Colour	White	White
Product Density (kg/m <sup>3</sup> )	190	210
Use Limit (°C) *	1420	1420
Classification Temperature (°C) ‡	1450	1450
<b>Thermal Conductivity (W/mK)</b>		
<b>Mean Temp.</b>		
600 °C	0.10	0.13
800 °C	0.14	0.16
1000 °C	0.18	0.21
1200 °C	0.28	0.26
<b>Permanent Linear Shrinkage (%) 24 Hour Soak</b>		
1450 °C	<3.0	<3.0

Products	Bonded MX Modules	Anchor-Loc MX	MX Batten Strips
Length (mm)	300	300	1450 (max)
Width (mm)	300	300	1200 (max)
Thickness (mm)	25/38/50 75/100	250/300/350	25
Density (kg/m <sup>3</sup> )	190	210	128

Other densities, thicknesses / sizes may be available on request subject to minimum order requirements. MX Batten Strips are only supplied as part of an Anchor-Loc Block MX lining system and are pre-cut in accordance with the module thickness.

### 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.

\*The maximum continuous limit temperature for these products depends upon application conditions. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Alkegen Engineering office. Where appropriate Physical Properties are measured according to EN 1094-1. Thermal Conductivity figures are empirical values based on experience. ‡ Based on classification temperature of the fibre in blanket form.

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