

Fiberfrax® MX Products

DESCRIPTION

Fiberfrax MX products are specialised 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.

Product Information Sheet



Fiberfrax® MX Products

TYPICAL PRODUCT PARAMETERS

MX Modules	Bonded	Anchor-Loc
Typical Chemical Analysis (fiber wt. %)		
SiO ₂	52.0 – 56.0	52.0 – 56.0
Al ₂ O ₃	28.0 – 32.0	28.0 – 32.0
ZrO ₂	14.0 – 18.0	14.0 – 18.0
Fe ₂ O ₃ + TiO ₂	<0.2	<0.2
Alkalies	<0.25	<0.25
Physical Properties		
Colour	White	White
Product Density (lb/ft ³)	12	13
Use Limit (°F)*	2588	2588
Classification Temperature (°F)*	2642	2642
Thermal Conductivity W/mK (BTU in/hr ft² °F)		
1100 °F	0.69	0.9
1500 °F	0.97	1.11
1800°F	1.25	1.46
2200 °F	1.94	1.8
Permanent Linear Shrinkage (%) 24 Hour Soak		
2642 °F	<3.0	<3.0

*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 Unifrax 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.

AVAILABILITY

Products	Bonded MX	Modules Anchor-Loc MX	MX Batten Strips
Length mm (inch)	300 (12)	300 (12)	1450 max (57.1 max)
Width mm (inch)	300 (12)	300 (12)	1200 max (47.3 max)
Thickness mm (inch)	25 (1), 38 (1.5), 50 (2), 75 (3), 100 (4)	250 (10.0), 300 (12.0), 350 (14.0)	25 (1)
Density kg/m³ (lb/ft³)	190 (12)	210 (13)	128 (8)

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.

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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. Product Information Sheets are periodically updated by Alkegen. Before relying on any data or other information in this Product Information Sheet, you should confirm that it is still current and has not been superseded. A Product Information Sheet that has been superseded may contain incorrect, obsolete and/or irrelevant data and other information.

Alkegen
Headquarters
5215 N. O'Connor Blvd, Suite 2300
Irving, TX 75039
Telephone: 716-768-6500
Website: www.alkegen.com
Email: info@alkegen.com

