Product Information Sheet

Fiberfrax

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

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TYPICAL PRODUCT PARAMETERS

MX Modules	Bonded	Anchor-Loc
Typical Chemical Analysis (fiber wt. %)		
SiO_2	52.0 - 56.0	52.0 - 56.0
Al_2O_3	28.0 - 32.0	28.0 - 32.0
ZrO_2	14.0 - 18.0	14.0 - 18.0
$Fe_2O_3 + TiO_2$	<0.2	<0.2
Alkalis	<0.25	<0.25
Physical Properties		
Colour	White	White
Product Density (lb/ft³)	12	13
Use Limit (ºF)[*]	2588	2588
Classification Temperature (ºF)[‡]	2642	2642
Thermal Conductivity W/mK ((BTU in/hr ft² ºF)		
1100 ºF	0.69	0.9
1500 ºF	0.97	1.11
1800ºF	1.25	1.46
2200 ºF	1.94	1.8
Permanent Linear Shrinkage (%) 24 Hour Soak		
2642 ºF	<3.0	<3.0

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.

*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.

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