Fiberfrax® MX Products

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.
**TYPICAL PRODUCT PARAMETERS**

### MX Modules

<table>
<thead>
<tr>
<th>Typical Chemical Analysis (fibre wt. %)</th>
<th>Bonded</th>
<th>Prismo-Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiO₂</td>
<td>52.0 - 56.0</td>
<td>52.0 - 56.0</td>
</tr>
<tr>
<td>Al₂O₃</td>
<td>28.0 - 32.0</td>
<td>28.0 - 32.0</td>
</tr>
<tr>
<td>ZrO₂</td>
<td>14.0 - 18.0</td>
<td>14.0 - 18.0</td>
</tr>
<tr>
<td>Fe₂O₃ + TiO₂</td>
<td>&lt;0.2</td>
<td>&lt;0.2</td>
</tr>
<tr>
<td>Alkalis</td>
<td>&lt;0.25</td>
<td>&lt;0.25</td>
</tr>
</tbody>
</table>

### Physical Properties

- **Colour**: White
- **Melting Point (°C)**: 1740
- **Product Density (kg/m³)**: 190
- **Use Limit (°C)**: 1450

### Thermal Conductivity (W/mK)

**Mean Temp.**

- 600 °C: 0.10
- 800 °C: 0.14
- 1000 °C: 0.18
- 1200 °C: 0.28

**Permanent Linear Shrinkage (%) 24 Hour Soak**

- 1450 °C: <3.0

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**AVAILABILITY**

<table>
<thead>
<tr>
<th>Products</th>
<th>Bonded MX Modules</th>
<th>Prismo-Block MX</th>
<th>MX Batten Strips</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (mm)</td>
<td>300</td>
<td>300/450/600</td>
<td>1450 (max)</td>
</tr>
<tr>
<td>Width (mm)</td>
<td>300*</td>
<td>300*</td>
<td>1200 (max)</td>
</tr>
<tr>
<td>Thickness (mm)</td>
<td>75/100</td>
<td>250/300/350</td>
<td>25</td>
</tr>
<tr>
<td>Density (kg/m³)</td>
<td>190</td>
<td>210</td>
<td>128</td>
</tr>
</tbody>
</table>

*300mm when compressed

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

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**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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