

## Fiberfrax® Duraboard® MD

### Description

Fiberfrax® Duraboard® products are manufactured from Fiberfrax refractory ceramic fibres, blended with specially selected inorganic and organic binders to give rigid boards with exceptional characteristics. Duraboard MD is a clay-filled board designed to meet the demanding requirements of modern industry. These boards exhibit high strength and rigidity coupled with excellent insulating performance and high temperature stability. Fiberfrax Duraboard MD products are available in a wide range of sizes and thicknesses.

### General Characteristics

Fiberfrax Duraboard MD has the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- Excellent thickness control
- Good flexural and compressive strength
- Easy to cut with standard tools



### Typical Applications

- High temperature kiln and furnace linings
- Rigid high temperature gaskets and seals
- Heat shields
- Gas boiler combustion chamber linings

Information on other applications available upon request. 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<sup>‡</sup>

Fiberfrax	Duraboard MD
<i>Typical Chemical Analysis (fibre wt. %)</i>	
Al <sub>2</sub> O <sub>3</sub>	42.0 - 50.0
SiO <sub>2</sub>	50.0 - 58.0
Alkalis	<0.25
Fe <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>	<0.20
<i>Physical Properties</i>	
Colour	White to Tan
Product Density (kg/m <sup>3</sup> )	300
Modulus of Rupture (kPa) (as received) Boards up to 25mm.	>700
Resistance to Compression (kPa) (load to 10% deformation at 10 mm)	>150
Use Limit (°C)*	1200
Loss on ignition (wt. %)	<7.0
<i>Thermal Conductivity (W/mK)</i>	
<b>Mean Temperature</b>	
600°C	0.11
800°C	0.15
1000°C	0.21
<i>Permanent Linear Shrinkage (%) 24 Hour Soak</i>	
1100 °C	<4.0%

<sup>‡</sup>Product parameters relate to product characteristics **before any secondary treatment**.

\*Use limit refers to the maximum short term temperature limit. The maximum continuous use limit for boards depends upon application conditions. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.

Where appropriate Physical Properties data measured **according to EN 1094-1**.

## Handling Information

A Safety Data Sheet (SDS) 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.



## Availability

Thickness	Fiberfrax Duraboard MD	Sheets per carton	Sheets per pallet
mm	Sheet Dimensions	1250 x 1000mm	
3	✓	32	352
5	✓	20	220
6	✓	16	176
10	✓	10	110
12	✓	8	88
15	✓	6	66
18	✓	5	55
20	✓	5	55
25	✓	4	44
40	✓	2	22
50	✓	2	22
60	✓	n/a.	20

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

Please contact your local Unifrax sales office to discuss your particular requirements.

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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 Unifrax. 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.

**Unifrax I LLC**  
 Corporate Headquarters  
 600 Riverwalk Parkway  
 Suite 120  
 Tonawanda, NY 14150 USA  
 Telephone: 716-768-6500  
 Internet: [www.unifrax.com](http://www.unifrax.com)  
 Email: [info@unifrax.com](mailto:info@unifrax.com)

**Unifrax I LLC**  
 European Sales &  
 Marketing Headquarters  
 Unifrax Limited  
 Mill Lane, Rainford,  
 St. Helens, Merseyside  
 England, WA11 8LP  
 Telephone: +44 (0)1744 887600