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Unifrax Ltd.

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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.

Fiberfrax Duraboard 1500 & 1600 are produced from a blend of Fiberfrax and high alumina polycrystalline fibres. This combination increases the continuous operating temperature capability, provides very low shrinkage at elevated temperatures, whilst maintaining excellent insulating properties. Fiberfrax Duraboard products are available in a wide range of sizes and thicknesses.

GENERAL CHARACTERISTICS

Fiberfrax Duraboard products have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- Resistance to erosion
- Easy to cut with standard tools
- Low warpage

TYPICAL APPLICATIONS

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

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

Duraboard	1500	1600
Typical Chemical Analysis (fibre wt. %)		
SiO ₂	44.0 - 50.0	37.0 - 43.0
Al ₂ O ₃	49.0 - 55.0	56.0 - 62.0
Fe ₂ O ₃ + TiO ₂	<0.5	<0.5
Alkalies	<0.25	<0.25
Physical Properties		
Colour	White / Tan	White / Tan
Product Density (kg/m ³)	230	200
Modulus of Rupture (kPa)	>500	>400
Use Limit (°C) *	1500	1600
Loss on Ignition (wt. %)	<7.0	<7.0
Thermal Conductivity (W/mK)		
Mean Temp.		
1000 °C	0.16	0.18
1200 °C	0.20	0.24
1400 °C	0.26	0.36
Permanent Linear Shrinkage (%) 24 hour soak		
1500 °C	<4.0	-
1600 °C	-	<4.0

*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.

AVAILABILITY

Thickness (mm)	1500		1600		Sheets per carton	Sheets per pallet	Sheets per carton	Sheets per pallet
	Sheet Dimensions		Sheet Dimensions		1000 x 610mm	1000 x 610mm	1250 x 1000mm	1250 x 1000mm
10	✓				10	220	10	110
12	✓				8	176	8	88
18	✓				5	110	5	55
25	✓		✓		4	88	4	44
40			✓		2	44	2	22
50	✓		✓		2	44	2	22

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

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.

Supplied by:

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