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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. Duraboard 140ZK is easy to cut and shape with standard tools. These boards exhibit high strength and rigidity coupled with excellent insulating performance and high temperature stability. Duraboard 140LD is particularly suited to applications where reduced out-gassing and/or high definition mechanical machining are required. 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

TYPICAL APPLICATIONS

- High temperature furnace and kiln linings
- Rigid high temperature gaskets and seals
- Heat shields
- High temperature baffles and muffles

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	140ZK	140LD
Typical Chemical Analysis (fibre 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
Alkalis	<0.25	<0.25
Physical Properties		
Colour	White / Tan	White / Tan
Melting Point (°C)	1740	1740
Product Density (kg/m ³)	340	300
Modulus of Rupture (kPa)	>800	>700
Use Limit (°C) *	1400	1400
Loss on Ignition (wt.%)	<9.0	<7.0
Thermal Conductivity (W/mK)		
Mean Temp.		
800 °C	0.16	0.15
1000 °C	0.20	0.20
1200 °C	0.26	0.27
Permanent Linear Shrinkage (%) 24 Hour Soak		
1400 °C	<4.0	<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)	140ZK	140LD	Sheets per carton	Sheets per pallet	Sheets per carton	Sheets per pallet
Sheet Dimensions			1000 x 610mm			1250 x 1000mm
5	✓		20	440	20	220
6	✓		16	352	16	176
10	✓		10	220	10	110
12	✓		8	176	8	88
15	✓		6	132	6	66
18	✓		5	110	5	55
20	✓	✓	5	110	5	55
25	✓	✓	4	88	4	44
30	✓	✓	3	68	3	34
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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