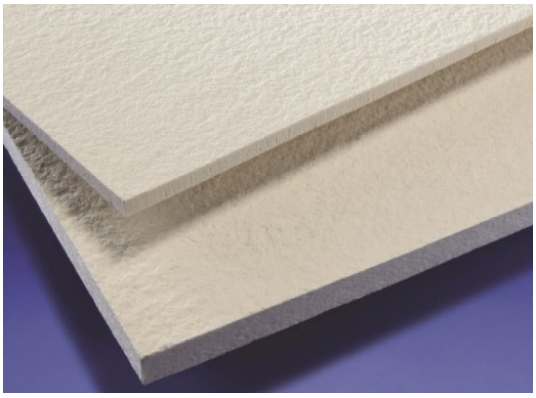
FIBERFRAX® DURABOARD 140ZK & 140LD



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
- Easy to cut with standard tools
- Resistance to erosion

Typical Applications

- Rigid high temperature seals and gaskets
- High temperature furnace and kiln linings
- 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

Physical Properties

Duraboard	140ZK	140LD
Colour	White / Tan	White / Tan
Melting Point	1740°C	1740°C
Product Density	340 kg/m^3	300 kg/m^3
Modules of Rupture	> 800 kPa	> 700 kPa
Use Limit*	1400°C	1400°C
Loss on ignition (wt%)	<9.0	<7.0

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

Thermal Conductivity Data (W/mK)

Duraboard	140ZK	140LD
800°C Mean Temp.	0.16	0.15
1000°C Mean Temp	0.20	0.20
1200°C Mean Temp.	0.26	0.27

Permanent Linear Shrinkage (24 Hour Soak)

1400°C	< 4.0%	< 4.0%

LEADER IN HIGH TEMPERATURE SOLTIONS

TECHNICAL DATASHEET

Form: A1-170
Effective: 14032025/NK/jj
Supersedes: 03012022/es

LD: 0812

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Typical Chemical Analysis (fibre wt%)

Duraboard	**140ZK**	**140LD**
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
$Fe_2O_3 + TiO_2$	< 0,20	< 0,20
Alkalis	< 0,25	< 0,25

Availability

Thickness	140ZK	140LD	Sheet Dimension mm	Sheets / Carton	Sheets / Pallet	Sheet Dimension mm	Sheets / Carton	Sheets / Pallet
5 mm	√		1000 x 610	20	440	1250 x 1000	20	220
6 mm	√		1000 x 610	16	352	1250 x 1000	16	176
10 mm	√		1000 x 610	10	220	1250 x 1000	10	110
12 mm	√		1000 x 610	8	176	1250 x 1000	8	88
15 mm	√		1000 x 610	6	132	1250 x 1000	6	66
18 mm	√		1000 x 610	5	110	1250 x 1000	5	55
20 mm	√	√	1000 x 610	5	110	1250 x 1000	5	55
25 mm	√	√	1000 x 610	4	88	1250 x 1000	4	44
30 mm	√	√	1000 x 610	3	68	1250 x 1000	3	34
40 mm	√	√	1000 x 610	2	44	1250 x 1000	2	22
50 mm	√	√	1000 x 610	2	44	1250 x 1000	2	22

Other thicknesses and sheet 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.

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