FIBERFRAX® DURABOARD 1500 & 1600

INSULCON
LEADER IN HIGH TEMPERATURE SOLUTIONS

TECHNICAL DATASHEET

LEADER IN HIGH TEMPERATURE SOLUTIONS

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 has these 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 combustions 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.

	Duraboard 1500	**Duraboard 1600**
Typical Chemical Analysis (fibre wt. %)		
SiO_2	44.0 - 50.0	37.0 - 43.0
Al_2O_3	49.0 - 55.0	56.0 - 62.0
$Fe_2O_3 + TiO_2$	<0.5	<0.5
Alkalis	<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

Form: A1-141
Effective: 11032026/GF/jj
Supersedes: 03012022/es
All Rights Reserved
LD: U0325

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

FIBERFRAX® DURABOARD 1500 & 1600

Availability

Thickness	1500	1600	Sheet dimensions (mm)	Quantity sheets per carton	Loose sheets per pallet
10 mm	x		1250 x 1000	10	110
12 mm	x		1250 x 1000	8	88
18 mm	x		1250 x 1000	5	55
25 mm	x	x	1250 x 1000	4	44
40 mm		x		2	22
50 mm	x	x	1250 x 1000	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.

Form: A1-141
Effective: 11032026/GF/jj
Supersedes: 03012022/es
All Rights Reserved
LD: U0325

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.