

Start saving energy now. Contact your local distributor.

Unifrax Ltd.

T:+44 (0)1744 88 7600 www.unifrax.com F:+44 (0)1744 88 9916

DESCRIPTION

Fiberfrax Speciality Board products are manufactured from Fiberfrax refractory ceramic fibres, blended with specially selected inorganic and organic binders to give rigid boards with highly engineered characteristics. The Fiberfrax Speciality Board family comprises of Duraboard CT and Duraboard 1010. These boards complement the standard range of Fiberfrax insulating boards and are designed for use in technically demanding applications.

GENERAL CHARACTERISTICS

Fiberfrax Speciality Board products have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- High resistance to compression (Duraboard CT)
- Easy to cut with standard tools

TYPICAL APPLICATIONS

- Back-up to refractory linings (Duraboard CT)
- Machined components for non-ferrous industry (Duraboard 1010)

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.



U-124 ENRev: 0 Dec 09
Page 2 of 2

DURABOARD CT

Duraboard CT is a high density board with a high resistance to compression and is particularly suited to use as a back-up material for refractory linings. Due to its hydraulic binders Duraboard CT can be softened by wetting with water and formed into various profiles. A water repellent grade of Duraboard CT is available for use in conjunction with castable materials.

DURABOARD 1010

Duraboard 1010 is a pre-fired product which has been cleaned to remove a large portion of the unfiberised particles. Duraboard 1010 has been specifically developed for machining, in order to produce shaped components, particularly for use in the non-ferrous metals industry. A hardened version can be supplied on request.

TYPICAL PRODUCT PARAMETERS

Duraboard	СТ	1010
Typical Chemical Analysis (fibre wt. %)		
SiO ₂	50.0 - 58.0	50.0 - 58.0
Al_2O_3	42.0 - 50.0	42.0 - 50.0
$Fe_2O_3 + TiO_2$	<0.2	<0.2
Alkalis	<0.25	<0.25
Physical Properties		
Colour	Grey	White / Tan
Product Density (kg/m³)	435	420
Modulus of Rupture (kPa)	>700	>500
Use Limit (°C) *	1200	1200
Loss on Ignition (wt.%)	<8.0	<0.5
Thermal Conductivity (W/mK)		
Mean Temp.		
600 °C	0.10	0.11
800 °C	0.15	0.13
1000 °C	0.21	0.18

*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)	Dur	aboard CT	Sheets per carton	Duraboard 1010	Sheets per pallet
Sheet Dimensions		1250 x 1000mm		1000 x	610mm
3		✓	32		
5		✓	20		
10		✓	10		
12		✓	8		
20				✓	48

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:			

Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation. Further information and advice on specific details of the products described should be obtained in writing from a Unifrax Corporation company (Unifrax España, Unifrax France, Unifrax GmbH, Unifrax Limited, Unifrax s.r.o.). Unifrax maintains a continuous programme of product development and reserves the right to change product specifications without prior notice. Therefore, it maintains at all times the responsibility of the customer to ensure that Unifrax materials are suitable for the particular purpose intended. Similarly, insofar as materials not manufactured nor supplied by Unifrax are used in conjunction with or instead of Unifrax materials, the customer should ensure that all technical data and other information relating to such materials has been obtained from the manufacturer or supplier. Unifrax accepts no liability arising from the use of such materials. All sales made by a Unifrax Corporation company are subject to that company's Terms and Conditions of Sale, copies of which are available on request.