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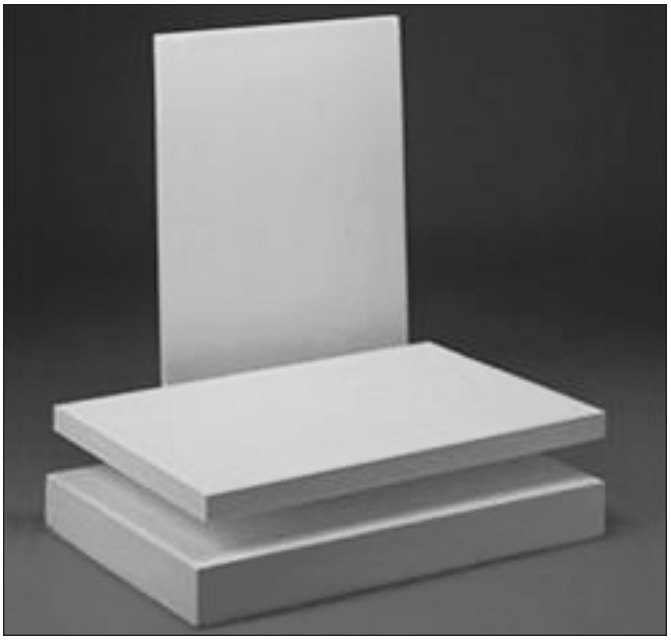
Product Information Sheet

Fibermax® Duraboard® 1700
Fibermax® Duraboard® 1800



Introduction

Duraboard® 1700 and Duraboard® 1800 are an extension to the Fibermax® product line. These board products exhibit excellent thermal stability (low shrinkage) at very high operating temperatures. Another benefit of these board products is their extremely high modulus of rupture (MOR) in both the green and fired state. Because of this strength, both Duraboard 1700 and Duraboard 1800 are very well suited for applications where sag resistance is critical. Duraboard 17R and 18R have a rolled finish, while Duraboard 17H and 18H are compressed during manufacturing for optimum density and sanded smooth. Standard thicknesses available for these products are 13mm (½"), 25mm (1"), 38mm (1½"), and 50mm (2"). Also, if requested, these boards can be provided heat-treated to remove all organic content. Specialty shapes with similar product properties may be provided upon request.

Typical Applications

- High-temperature Laboratory Furnaces/Kilns
- Diffusion Furnaces
- Kiln Setter Tiles
- Specialty Shapes
- Atmosphere Furnaces
- Electric Furnaces

Typical Physical Properties

	Duraboard 17R	Duraboard 17H	Duraboard 18R	Duraboard 18H
Appearance	White	White	White	White
Continuous Use Limit*	1700°C (3092°F)	1700°C (3092°F)	1800°C (3272°F)	1800°C (3272°F)
Dry Density (PCF)	400 kg/m^3 (25 pcf)	700 kg/m^3 (44 pcf)	500 kg/m^3 (32 pcf)	700 kg/m^3 (44 pcf)
Green MOR MPa (PSI)	1.27 (185)	3.90 (565)	1.76 (255)	3.17 (460)
Fired MOR MPa (PSI) (Use limit 24 Hrs.)	.69 (100)	2.60 (377)	1.37 (198)	1.97 (285)
LOI (%) 1260°C (2300°F)/24 Hrs	4%	4%	4%	4%
Linear Shrinkage (%) (Use limit 24 Hrs.)	(.1%)	(.7%)	.4%	0%

*The continuous use limit of Duraboard 1700 and Duraboard 1800 is determined by irreversible linear change criteria, not product melting point.

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Chemical Composition % (Typical)

	Duraboard 17R	Duraboard 17H	Duraboard 18R	Duraboard 18H
Alumina, Al_2O_3	70%	70%	85%	85%
Silica, SiO_2	30%	30%	15%	15%

Availability

Standard Dimensions (mm)	13 x 600 x 900 (½" x 23⅝" x 35⁷⁄₁₆") 4 Boards/carton 25 x 600 x 900 (1" x 23⅝" x 35⁷⁄₁₆") 2 Boards/carton 38 x 600 x 900 (1½" x 23⅝" x 35⁷⁄₁₆") 1 Board/carton 50 x 600 x 900 (2" x 23⅝" x 35⁷⁄₁₆") 1 Board/carton

For additional information about product performance or to identify the recommended product for your application, please contact the Unifrax Application Engineering Group at 716-278-3888.

Refer to the product Material Safety Data Sheet (MSDS) for recommended work practices and other product safety information.

Test data shown are average results of tests conducted under standard procedures and are subject to variation.

Results should not be used for specification purposes.

Form C-1405
Effective 3/08

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