

Unifrax Fiberfrax® Duraboard® HD Ceramic Fiber Board

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Fiberfrax® Duraboard® products are a family of rigid, high-temperature ceramic fiber boards manufactured in a wet forming process using Fiberfrax alumina-silica fibers and binders. All Duraboard products offer low thermal conductivity, high temperature stability, uniform density, and excellent resistance to thermal shock and chemical attack. Duraboard HD insulation is a high-density board product that offers the same high level of dimensional and surface uniformity as Duraboard LD insulation, but provides enhanced compressive strength and a higher modulus of rupture. This higher density is achieved through the inclusion of clay additives during the manufacturing process. Its higher strength makes Duraboard HD insulation particularly well-suited to weight load support applications such as refractory brick backup or for covering larger unsupported spans. Description: The addition of clay gives a higher density, MOR, and strength. Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-Fiberfrax-Duraboard-HD-Ceramic-Fiber-Board.php

Physical Properties	Metric	English	Comments
Density	0.417 g/cc	0.0150 lb/in ³	Nominal
Loss On Ignition	6.0 - 7.0 %	6.0 - 7.0 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000862 GPa	0.125 ksi	Fired (24 hrs at cont. use)
	0.00207 GPa	0.300 ksi	Green (typ.)
Compressive Strength	0.221 MPa	32.0 psi	15% Deformation; Fired
	0.228 MPa	33.0 psi	10% Deformation; Fired
	0.241 MPa	35.0 psi	5% Deformation; Fired
	0.407 MPa	59.0 psi	5% Deformation; Green
	0.483 MPa	70.0 psi	10% Deformation; Green
	0.558 MPa	81.0 psi	15% Deformation; Green

Thermal Properties	Metric	English	Comments
Melting Point	1760 °C	3200 °F	
Maximum Service Temperature, Air	1149 °C	2100 °F	Recommended Operating Temperature
Shrinkage	<= 5.0 %	<= 5.0 %	at Recommended Operating Temperature
	@Time 86400 sec	@Time 24.0 hour	

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.06 kV/mm	27.0 kV/in	

Descriptive Properties	Value	Comments
Color	Cream	
Fiberfrax® Fibers (%)	100	
Temperature Grade (°C)	1260	

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