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## Ceramic Fiber Boards

Armil/CFS ceramic fiber boards are used for a variety of high temperature insulating applications to 3000 deg F. All Duraboard ceramic fiber boards and FC series boards are manufactured from high purity Fiberfrax alumina silica ceramic fibers.

All Armil/CFS ceramic fiber boards offer low thermal conductivity, high temperature stability, uniform density, and excellent resistance to thermal shock and chemical attack\*. The excellent rigidity and modulus of rupture for these boards makes them strong and self supporting, yet lightweight and east to cut or fabricate. Duraboard and FC series ceramic fiber boards contain small amounts of organic and inorganic binders that will burn out between 450°F and 600°F during initial heat up.



\*Exceptions are hydrofluoric, phosphoric, hydrochloric, and sulfuric acids as well as concentrated alkalis.

	Duraboard LD	Duraboard HD	FC 2300 HDX	Duraboard 2600	Duraboard 3000
Density	16 pcf	26 pcf	45 pcf	14 pcf	12 pcf
Temperature Grade	2300°F	2300°F	2300°F	2600°F	3000°F
Melting Point	3200°F	3200°F	2800°F	3300°F	3400°F
Recommended Operating Temperature	2100°F	2100°F	2300°F	2450°F	2700°F
MOR: Green Fired at ROT	200 80	300 125	450	150 65	150 55
LOI (% by weight)	6-7%	6-7%	5-8%	4-6%	4-6%
Dielectric Strength	27 volts/mil	27 volts/mil		27 volts/mil	27 volts/mil
Shrinkage % at ROT	<5%	<5%	<5%	<2%	<2%
Composition	Fiberfrax Alumina / Silica Fibers	Fiberfrax Alumina / Silica Fibers	Fiberfrax Alumina / Silica Fibers	Fiberfrax Alumina / Silica & Fibermax Mullite	Fiberfrax Alumina / Silica & Fibermax Mullite
Available Thicknesses	1/4", 1/2", 1", 1-1/2", 2"	1", 1-1/2", 2"	1/2", 1"	1", 1-1/2", 2"	1", 1-1/2", 2"
Thermal Conductivity (Btu*in./hr*ft <sup>2</sup> * °F)					
400°F	0.556	0.556		0.584	0.49
1000°F	0.847	0.847		0.899	0.738
1600°F	1.339	1.339		1.417	1.426

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