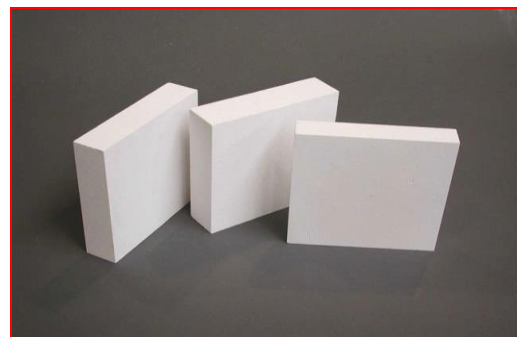


ALTRA® KVR

High Alumina Vacuum Formed Boards

ALTRA® KVR high alumina vacuum formed products are available in formulations for service temperatures up to 1550°C. ALTRA® KVR boards feature low thermal conductivity, good thermal shock resistance, high purity and good density uniformity. ALTRA® KVR products are formed from ALTRA® 97 alumina fibers with pure alumina and organic binders and are pre-fired to remove all organics. Low silica content makes ALTRA® KVR ideal for service in reducing atmospheres such as hydrogen or vacuum.



Properties	Units	ALTRA® GRADE			
		KVR 164/242	KVR 164/502	KVR 164/702	
Maximum Service Temperature	°F	2822	2822	2822	
	°C	1550	1550	1550	
Density	lbs/ft ³	15	31	45	
	(kg/m ³)	(240)	(500)	(700)	
Linear Shrinkage 24 hrs @ Temperature	%	0.0% @ 1400°C	0.0% @ 1400°C	0.0% @ 1400°C	
		0.2% @ 1500°C	0.2% @ 1500°C	0.1% @ 1500°C	
		0.4% @ 1600°C	0.5% @ 1600°C	0.4% @ 1600°C	
Thermal Conductivity	W/mK				
		752°F (400°C)	0.131	0.176	0.204
		1112°F (600°C)	0.162	0.189	0.217
		1472°F (800°C)	0.214	0.213	0.239
		1832°F (1000°C)	0.280	0.242	0.261
		2192°F (1200°C)	0.363	0.286	0.294
		2552°F (1400°C)	0.462	0.322	0.326
Chemical Composition	wt%				
		Al ₂ O ₃	>98%	>98%	>98%
		SiO ₂	< 2% *	< 2%*	< 2%*
		Other oxides	< 0.2%	< 0.2%	< 0.2%
* Present as mullite at alumina fiber grain boundaries					

- ▲ CNC Machining Services available
- ▲ Standard Board Size: 600mm x 400mm, standard thicknesses 25, 38 and 50mm
- ▲ Other board sizes and thickness available upon request

The test data shown are based on average results on production samples and are subject to normal variation on individual tests. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.