

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

- ▲ CNC Machining Services available
- ▲ Standard Board Size: 24" x 36", Thickness 1", 1 ½ " and 2"
- ▲ Other board sizes and thickness available upon request