

ALTRA® KVF

High Temperature Vacuum Formed Felt Boards and Shapes

ALTRA® KVF high temperature vacuum formed felt products are available in formulations for service temperatures up to 1500°C. **ALTRA® KVF** features low thermal conductivity, excellent thermal shock resistance, high purity and good density uniformity. **ALTRA® KVF** is formed from alumina and/or alumino-silicate fibers and latex, which will burn out at temperatures > 450°F.



Properties	Units	KVF GRADE				
		KVF 121	KVF 141	KVF 161	KVF 161 HA	
Classification Temperature	°F	2282	2552	2912	2912	
	°C	1250	1400	1600	1600	
Service Temperature	°F	2102	2372	2732	2732	
	°C	1150	1300	1500	1500	
Density	lbs/ft ³	10	10	6	6	
	(kg/m ³)	(160)	(160)	(100)	(100)	
Linear Shrinkage 24 hrs @ Temperature “+” indicates growth	%	1% @ 900°C	1% @ 1000°C	0.5% @ 1250°C	0.5% @ 1250°C	
		2% @ 1000°C	2% @ 1100°C	1% @ 1400°C	1.5% @ 1400°C	
		3% @ 1100°C	3% @ 1250°C	2% @ 1500°C	2.8% @ 1500°C	
Chemical Composition	wt%	Al ₂ O ₃	46	48	73	94
		SiO ₂	53	52	27	6
Organic Content	wt %	5	5	5	5	
Thermal Conductivity	BTUin/hrft ² °F (W/mK)	752°F (400°C)	(0.07)	(0.07)	(0.07)	(0.08)
		1112°F (600°C)	(0.12)	(0.12)	(0.12)	(.15)
		1472°F (800°C)	(0.18)	(0.18)	(0.18)	(0.24)
		1832°F(1000°C)	(0.25)	(0.25)	(0.25)	(0.34)
		2192°F(1200°C)	(0.35)	(0.35)	(0.35)	(0.56)
		2552°F(1400°C)		(0.48)	(0.48)	(0.84)

- ▲ KVF is available in the form of boards, tubes and other vacuum formed custom shapes
- ▲ Standard Board Size: 500mm x 1000mm, thicknesses 5mm to 75mm
- ▲ Other sizes and thicknesses 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.