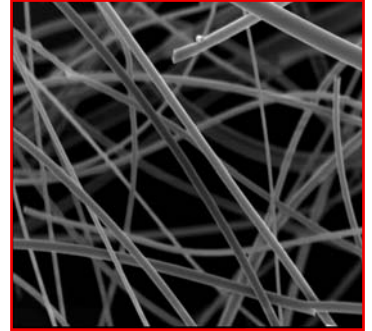


ALTRA[®] Polycrystalline Alumina Bulk Fiber

ALTRA[®] bulk alumina fibers are high purity, low shot content polycrystalline materials for refractory insulation applications up to 1800°C (3000°F). ALTRA[®] fibers are manufactured via a sol-gel solution process to control fiber diameter and non-fibrous shot content. Controlled firing yields the optimal crystalline phase for maximum resistance to thermal shrinkage at elevated temperatures. Two grades are available for a broad range of applications:



- ▲ **ALTRA[®] B72:** mullite composition, superior thermal shrinkage resistance, compressibility and resiliency. Preferred composition for vacuum forming of boards for oxidizing and neutral atmospheres up to 1800°C.
- ▲ **ALTRA[®] B97:** hi-alumina composition, used for vacuum forming boards with excellent resistance to reduction in dry hydrogen and vacuum atmospheres up to 1650°C. Preferred composition for vacuum forming of boards for resistance to chemically induced shrinkage from direct contact with most vapors and solids, including alkalis, acids, and iron oxides.

Properties	ALTRA [®] GRADE			
	B 72	B 97	B 97 LA	B 97 HA
Typical Composition				
Al ₂ O ₃	> 71	> 96	> 96	> 96
SiO ₂	< 28	< 3.5	< 3.5	< 3.5
Fe ₂ O ₃	< 0.1	< 0.1	< 0.1	< 0.1
Other oxides	< 0.2	< 0.2	< 0.2	< 0.2
Crystalline Phases				
α-Alumina	< 5%	30 to 42%	< 10%	> 42%
Mullite	> 60%	< 5%	-	< 10%
Fiber Resiliency				
Settlement Height ml	200 to 250	150 to 180	180 to 200	150
Slurry Density g/cm ³	0.025	0.028 – 0.033	0.025 – 0.028	0.033
Shot Content > 75 Microns (> .003")	< 1%	< 1%	< 1%	< 1%
Fiber Diameter μm	2 to 4	2 to 4	2 to 4	2 to 4

- ▲ Also available chopped or milled to custom fiber lengths