

HOT PRESSED ALUMINUM NITRIDE



EXAMPLE APPLICATIONS

Semiconductor Heaters

Etching Machine

Hot pressed aluminum nitride (AlN) is used in applications requiring high electrical resistivity in addition to exceptional thermal conductivity. The applications for hot pressed AlN typically involve rigorous or abrasive environments and high-temperature thermal cycling.

ITEM	UNIT	TESTING VALUE
Hardness	Kgf/mm ²	1070
Density	G/cm ³	3.3
Fracture Toughness	Mpa.m ^{1/2}	2.4
Thermal Conductivity	W/m.k	≥ 170
Flexure Strength	MPa	440
Characteristic Strength	MPa	445
Coefficient Of Thermal Expansion	x10 ⁻⁶ /°C	5.0
Dielectric Constant @ 1MHZ		9.0
Loss Tangent @ 1MHZ		0.00029

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