Aluminum nitride(AIN)

High performance ceramic materials

Mechanical properties	Unit	Aluminum nitride
Density	g/cm³	3.34
Vickers hardness	HV	1100
Bending strength	MPa	400
Compressive strength	MPa	2500
Toughness	MPa·m ^{1/2}	3.5
Elastic modulus	GPa	310
Poisson's ratio		0.22
Young's modulus	GPa	330

Thermal performance	Unit	Aluminum nitride
Thermal conductivity	W/ (m · K)	179.2
Maximum service temperature	°C (carrying idler)	1350
Specific heat	J/(kg·K)	720
Thermal Shock	°C(Put into water)	350
CTE(30°C~300°C, ppm/°C)	1 x ¹⁰⁻⁶ /°C	4.06
CTE(30°C~500°C, ppm/°C)	1 x ¹⁰⁻⁶ /°C	4.85

JARRO

Unit	Aluminum nitride
1MHz	7.40
1MHz	1.6x10 ⁻⁴
kV/mm	18
kV/mm	≥20
$\Omega \cdot cm$	2.1x10 ¹⁶
	1MHz 1MHz kV/mm

Note: This value is for reference only and may vary slightly depending on the batch conditions.

Jundro Ceramics is a global material manufacturer that offers a wide range of advanced materials

We produce high-quality and complex products, providing significantly enhanced performance for customers engineering.

Our comprehensive service range includes material selection, precision machining, surface treatment, and quality testing to ensure that each product can perform its best practical applications.

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