

BNP-2 Machinable Aluminum Nitride/BNP-2 Rod

Grade: BNP-2

Formula: AlN / BN

Diameter: 20mm

Length: 100mm

CAS Number: 24304-00-5

UOM Code: 095-090-69

SKU: 1000010525-group

Product Code: AK62-RD-000120

Material Properties for Ceramics

Electrical Properties

Element	Value
Dielectric constant	7.1

Physical Properties

Element	Value
Apparent porosity(%)	0
Density(gcm ³)	2.9

Thermal Properties

Element	Value
Upper continuous use temperature(C)	1900(Oxidising)
Thermal conductivity(W m ⁻¹ K ⁻¹)	92@25°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	5.1@23-800°C

Mechanical Properties

Element	Value
Tensile modulus(GPa)	34.1Parallel
Hardness - Knoop(kgf mm ⁻²)	3.42-4.91

Pultrusions

Element	Value
Compressive strength(MPa)	1070