

ACM

ADVANCED CERAMIC MATERIALS

Meets or Exceeds Standard Specifications
Economical and Competitive Alternative
for Saint-Gobain

Benefits

- Low Thermal Expansion Coefficient
- Relatively Low Density
- High Thermal Conductivity
- Extremely Hard

Applications

- Automobile Industry
- Aviation & Space
- Machine Manufacturing
- Electronics



Product	Description
Pyrolytic Boron Nitride	High Purity, better than 99.99%
Hot Pressed Boron Nitride	Excellent Corrosion Resistance & Thermal Conductivity
Alumina	High Chemical Resistance & Low Thermal Expansion
Zirconia	High Resistance to Crack Propagation
Aluminum Nitride	High Thermal Conductivity & Electrical Insulation
LaB6	Highest Electron Emissivity
Silicon Carbide	Extreme Hardness

Advanced Ceramic Materials

Hot Pressed Boron Nitride (HBN) Products

Crucible	Plate	Rod	Tube	Ring	Blank	Machined Part	Powder
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Specifications of HBN Products

Product	BN99	ZSBN
Density g/cm ³	1.9	2.9
Color	White	Grey
Max Working Temp. °C	800°C in atmosphere	1000°C in atmosphere
	3000°C in inert gas	2000°C in inert gas
Hardness Knoop (kg/mm ²)	4	105
Flexural Strength	3000Psi	21000Psi
Heat Conductivity	63W/mk	38W/mk
Coefficient Thermal Expansion	0.6(x10 ⁻⁶ /K)	3.5(x10 ⁻⁶ /K)
	RT-1500°C	RT-1500°C



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