

# BORON NITRIDE CERAMIC

## TECHNOLOGY

## PARAMETERS



Grade		HBC (BN-A)
BN % Chemical Structure	%	99
Other Components		no
Density	g/cm <sup>3</sup>	1.9-2.0
Hardness	HL	300-400
Flexural Strength	Mpa	35
(25 °C-1200 °C) Coefficient of thermal expansion	(10 <sup>-6</sup> /K)	-1~2.5
Thermal Conductivity at 20 °C	W/mk	40
Max-Temperature of use	Oxidizing	900 °C
	Vacuum	1800 °C
	Inert	2200 °C
RT Resistivity	Ω·cm	>10 <sup>14</sup>

### Features & Advantages

- Adopting international leading manufacturing boron nitride powder. Ensure the purity of materials and high-temperature resistance.
- Adopting cold-isostatic pressing and bidirectional hot-pressing sintered technology. High density and longer lifetime.
- Stable and mature production technology and process, not using any binder, ensure material stability.

### Typical Applications

- High purity BN crucibles for molten metal processing.
- Crucibles and setter plate for Nitride phosphors, Silicon Nitride, Aluminum Nitride firing.
- Insulators and protective tubes for high-temperature furnaces.