



BORON NITRIDE PRECISION CERAMIC

SINYO INC.

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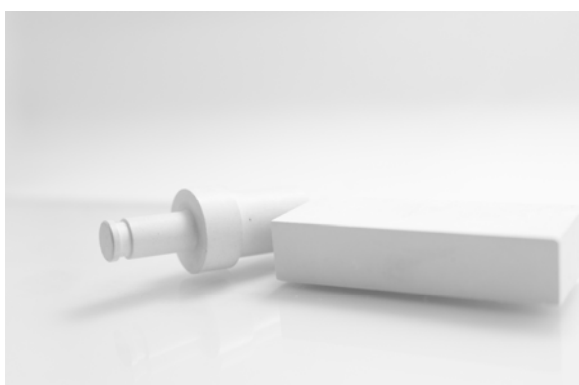
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▲ **BNH** is white solid material formed by hot press with high purity of platy hexagonal boron nitride. It is a low porosity solid. It is easily machined into complex shapes using standard carbide tooling.

▲ **BNC** is gray solid material also formed by hot press. It is compounded with Si, C, Cr and other elements.

Maximum size, diameter 280mm, height 300mm.



Features

- ◆ High thermal conductivity
- ◆ Low thermal expansion
- ◆ Good thermal shock resistance
- ◆ High electrical resistance
- ◆ Low dielectric constant and loss tangent
- ◆ Microwave transparency
- ◆ Easily machined
- ◆ Chemically inert
- ◆ Not wet by most molten metal

规格/Grade	BNH	BNC
BN 纯度 Purity	>99%	复合 <i>composite</i>
密度/Density g/cm ³	1.9±0.5	2.9-3.0
最大工作温度 Max operating Temperature	850°C in atmosphere 2200°C in inert gas 2000°C in vacuum	950°C in atmosphere 2000°C in inert gas 1800°C in vacuum
硬度/Hardness	20	105 N/mm ²
屈服强度/flexural strength	3000Psi	21000Psi
热传导率/Heat conductivity	63W/mk	38 W/mk
热膨胀率 coefficient thermal expansion	0.6(x10 ⁻⁶ /K) RT-1500°C	3.5(x10 ⁻⁶ /K) RT-1500°C
体积电阻/volume resistance	10 ¹⁵ (Ωcm)	-
Color	White	gray

CAUTION: Product is for industrial/commercial use only. Users should determine suitability for their use. In no event will SINYO be liable for any direct, indirect, incidental, special or consequential damages or losses including, but not limited to loss of profits, in any way related to this product regardless of the legal theory asserted.