



### Boron Nitride Crucible

Boron nitride crucible is a chemical compound containing equal amounts of nitrogen and boron nitride. Because hexagonal boron nitride (H-BN) crucible is very soft, it is often used as a lubricant and an additive to cosmetic products. Nextgen Advanced Materials supplies boron nitride crucible with high quality and fast delivery. Customization is available too.

#### Product Description

Buy Nextgen Boron Nitride Crucible which is of high quality directly with low price. Customization is available too. The boron nitride crucible is usually composed of boron nitride, or BN, which is a chemical compound with equal numbers of boron and nitrogen atoms. The hexagonal boron nitride (HBN) corresponding to graphite is the softest and most stable form among BN polymorphs, and is therefore used as lubricant and an additive to cosmetic products. The cubic (CBN) variety analogous to diamond has high hardness which is inferior only to diamond. The rare wurtzite BN (WBN) modification is similar to lonsdaleite, and it may even be harder than CBN.



#### Boron Nitride Crucible Available Materials

Material	Description	Availability
BN99	Hot pressed at high temperature (1900°C).	Machinable Blanks
	Excellent corrosion resistance and thermal conductivity. Limited wear resistance	Finished Parts

	Self-bonded and high purity(>99%)	Finished Parts
BNBO	General purpose material	Finished Parts
	Bonded by boric oxide	
BNCB	Calcium borate bonded boron nitride	Finished Parts
	Enhanced moisture resistance	
BN60	BN 60%, SiO <sub>2</sub> 40%	Finished Parts
BN40	BN 40%, SiO <sub>2</sub> 60%	Finished Parts
ZSBN	BN-45%, Zr <sub>2</sub> O <sub>3</sub> 45%	Finished Parts

### Boron Nitride Crucible Properties

Compound Formula	BN
Appearance	White
Melting Point	2973°C
Density	2.1 g/cm <sup>3</sup> (h-BN); 3.45 g/cm <sup>3</sup> (c-BN)
Solubility in H <sub>2</sub> O	Insoluble
Refractive Index	1.8 (h-BN); 2.1 (c-BN)
Electrical Resistivity	13 to 15 10 <sup>x</sup> Ω-m
Capacity	25ml, 55ml, 75ml, 100ml, 1000ml, and customized

### Boron Nitride Crucible Available Shapes (Customization is also provided)

