



Boron Nitride Break Ring

Boron nitride break ring is available from high-temperature-(1900°C)-formed 99% pure composite boron nitride materials. Nextgen Advanced Materials provides them with high-quality and fast delivery. Customization is available too.

Product Description

As the professional manufacture, we would like to provide you high quality Nextgen Boron Nitride Break Ring. With many European and American, Asian and domestic customers, we have established long-term good relationship with common progress. Sincerely expect to join hands with you to create the future. Boron nitride, or BN, is a chemical compound with equal numbers of boron and nitrogen atoms.

The hexagonal form (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 Break Ring 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%)	
BNBO	General purpose material Bonded by boric oxide	Finished Parts
BNCB	Calcium borate bonded boron nitride Enhanced moisture resistance	Finished Parts
BN60	BN 60%, SiO ₂ 40%	Finished Parts
BN40	BN 40%, SiO ₂ 60%	Finished Parts
ZSBN	BN-45%, Zr ₂ O ₃ 45%	Finished Parts

Boron Nitride Break Ring Properties

Compound Formula	BN
Molecular Weight	24.82
Appearance	White
Melting Point	2973°C
Density	2.1 g/cm ³ (h-BN); 3.45 g/cm ³ (c-BN)
Solubility in H ₂ O	Insoluble
Refractive Index	1.8 (h-BN); 2.1 (c-BN)
Electrical Resistivity	13 to 15 10 ^x Ω-m