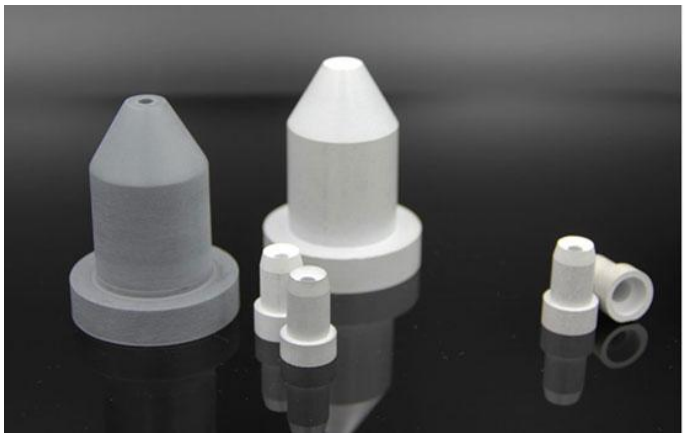
Boron Nitride Nozzle

High purity boron nitride nozzles could withstand higher temperatures in a vacuum than lower purity boron nitride nozzles. Although we usually claim the maximum working temperature as 2500°C, there's a record to use our material at 3000+°C. Nextgen Advanced Materials supplies boron nitride nozzle with high quality and fast delivery. Customization is available too.

Product Description

You are welcomed to come to our factory to buy the latest selling, low price, and high-quality Nextgen Boron Nitride Nozzle. Nextgen Advanced Materials INC adhered to he principle of "quality is the life", to provide customers with the best quality, the most competitive prices, the first-class after-sales service. Boron nitride (BN), also known as hexagonal boron nitride (H-BN) and hot-pressed boron nitride, is a good self-lubricate ceramic that can withstand high temperature (>3000℃ in an inert atmosphere) and maintain its lubricating capability in a high vacuum environment.

Our boron nitride nozzles are made from hot pressed boron nitride blank. Hexagonal boron nitride (H-BN) behaves similarly with graphite mechanically but offers excellent electrical resistance. Boron nitride nozzle has very low wettability with metal. Compared with graphite, it's an excellent choice for high-temperature metal spray.



Boron Nitride Nozzle 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
ZSBN	BN-45%, Zr2O3 45%	Finished Parts

Boron Nitride Nozzle Properties

Compound Formula	BN
Appearance	White
Melting Point	2973 °C
Density	2.1 g/cm3 (h-BN); 3.45 g/cm3 (c-BN)
Purity	99%
Refractive Index	1.8 (h-BN); 2.1 (c-BN)
Electrical Resistivity	13 to 15 10x Ω-m