

Hot Pressed Boron Nitride Crucible



Boron Nitride ceramic from Nextgen Advanced Materials can withstand high temperatures in a high vacuum environment, plus it has excellent corrosion resistance and electrical resistance. Nextgen Advanced Materials supplies Hot Pressed Boron Nitride Crucibles in different sizes. Customization is available too.

Product Description

You can rest assured to buy customized Nextgen Hot Pressed Boron Nitride Crucible from us. In recently years, the factory has won the sincere love of customers by relying on its sincere reputation, professional and and enthusiastic service to convey the three excellent standard services of high quality materials, preferential prices and excellent service to our customers. Boron Nitride, also known as BN, Hexagonal boron nitride (H-BN) and hot pressed boron nitride, is a good self-lubricate ceramic that can withstand high temperature and maintain its lubricating capability in high vacuum environment. Our Boron Nitride crucibles are made from hot pressed boron nitride blank. Hexagonal boron nitride (H-BN) behaves similar with graphite mechanically, but offers excellent electrical resistance.



Hot Pressed Boron Nitride Crucible Available Materials

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

	wear resistance	
	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 ₂ 40%	Finished Parts
BN40	BN 40%, SiO ₂ 60%	Finished Parts
ZSBN	BN-45%, Zr ₂ O ₃ 45%	Finished Parts

Hot Pressed Boron Nitride Crucible Properties

Item	Parameter
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
Capacity	25ml, 55ml, 75ml, 100ml, 1000ml, and customized