
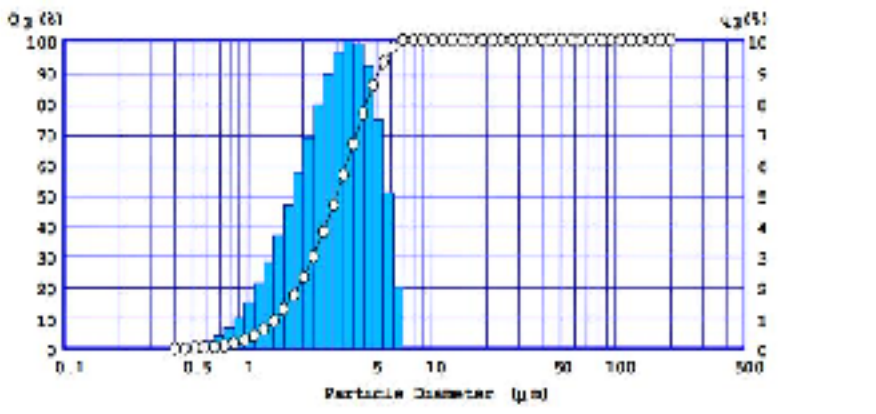
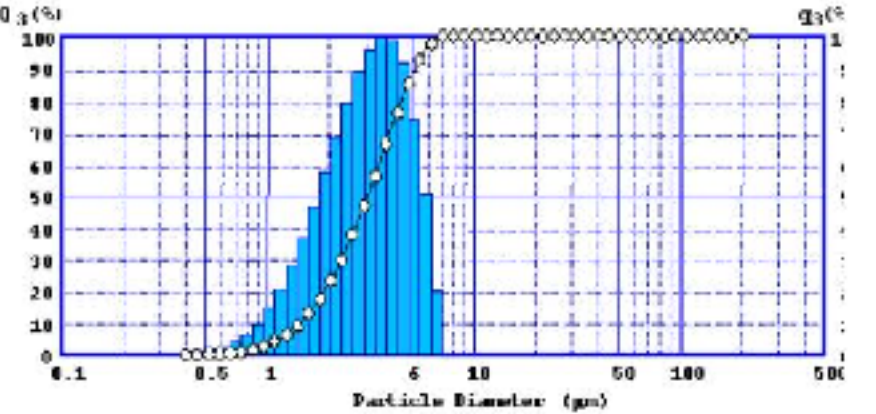


Hexagonal Boron Nitride Powder

<p>Description</p>	<p>Hexagonal boron nitride (HBN) powder has good thermal conductivity, insulation, chemical stability and lubricity. Its anti-oxidation temperature exceeds 2000 °C, and it also has good lubricity at high temperature. It is mainly used in the preparation of cubic boron nitride, high temperature coatings, fillers, HBN agglomerates, etc.</p>
<p>Application</p> 	<p>Superhard material industry. Used for the preparation of cubic boron nitride. Lithium-based or magnesium-based catalysts, can be converted into cubic boron nitride under ultra-high pressure and high temperature conditions.</p> <p>Coating industry. HBN can make the metal or ceramic material have good surface lubricity and anti-sticking properties, and can prevent or reduce the chemical reaction between the material and the melt, and improve the life of the material. It can be used in all kinds of radiators, electronic parts to increase heat dissipation. And it's suitable for optoelectronic industry radiators, electronic parts cooling modules, power cooling modules, automotive radiators, oil coolers, transmission oil coolers, and other types of coolers.</p> <p>Electronic materials industry. When used as a filler for high thermal conductivity materials, HBN has excellent heat resistance, good corrosion resistance, low thermal expansion coefficient and high heat rate. It is the most suitable thermal insulation material, which can improve the thermal conductivity of resin-based electronic components.</p> <p>High-end cosmetics industry. When used as a high-end cosmetic filler, it can increase cosmetic adhesion and covering performance, and has a good greasy feel, making makeup products firm, easy to apply, easy to clean and remove, and harmless to the human body.</p> <p>Lubricating material industry. As an additive for solid and liquid lubricating materials, it can improve fuel efficiency, the wear resistance of oil cylinders, and have a significant energy saving effect.</p> <p>High-tech ceramic industry. Used to prepare HBN agglomerates. HBN agglomerates have high thermal conductivity, excellent high temperature performance, excellent electrical insulation and dielectric properties, and are often used to prepare high temperature and high pressure heat dissipation components, high temperature electrical insulation devices, crucibles and molds, as well as high permeability and high stability microwave antenna window and other components.</p>

Technical Specification

Items	Hexagonal Boron Nitride Powder-CPW02	Hexagonal Boron Nitride Powder-CPW-05
BN%:	99%	99%
B ₂ O ₃ (%):	<0.5	<0.5
C (%):	<0.05	<0.05
Total Oxygen (%):	<0.8	<0.8
Si, Al, Ca (%):	<30ppm each	<30ppm each
Cu, K, Fe, Na, Ni, Cr (%):	<10ppm each	<10ppm each
D50:	2-4μm	5μm
Crystal Size:	500nm	<3μm
BET (m ² /g):	12~30	13.2
Tap Density (g/cm ³):	0.1-0.3	0.19
Partical Diameter (μm)		
Features	<p>CPW02 is a high-purity powder with a single crystal particle size of about 500 nanometers and a hexagonal flake shape. It has been specially purified and has a large specific surface area. It is mostly used in refractory materials, BN hot pressing, lubricating demoulding and other fields, and has a wide range of uses.</p>	<p>CPW05 is a high-purity powder with a single crystal particle size of less than 3 microns and an average particle size of about 5 microns. It is widely used in refractory materials, BN hot pressing, lubricating and demoulding, thermal conductivity addition and other fields.</p>