

多壁氮化硼纳米管技术数据

Technical data of boron nitride nanotubes

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Purity	>99%
Boron Nitride Nanotubes content	>95%
Hexagonal boron carbide content	<5%
Diameter	~50nm
Wall count	1~3
Length	~20um
Thermal Stability	>900° C
BNNT Crystallites	a=60 nm , c=80 nm
Appearance	White Powder
Electrical Property	Insulator (Band Gap ~5.5eV)
Thermal Stability	Stable up to > 1,000 oC in air
Thermal Neutron Absorption (b = 10 ⁻²⁴ m ²)	B ~760b / N ~1.9b
Thermal Conductivity	~3,000 W/mK (in calculation)
Mechanical Property (Young' s Modulus)	~1.18 TPa
Coefficient of Thermal Expansion	~1 x 10 ⁻⁶

