

Boron Nitride (BN) Grade A

Boron Nitride is an advanced synthetic ceramic material available in powder, solid and aerosol spray forms. Its unique properties - from high heat capacity and outstanding thermal conductivity to easy machinability and superior dielectric strength - make boron nitride a truly outstanding material.

Solid Boron Nitride Grade A is a high performance material possessing a glassy B_2O_3 binder that creates a hard and dense yet fully machinable product. It is therefore an excellent choice for all but the most severe refractory applications.

Applications

Grade A is the oldest boron nitride on the market. It is used in many legacy applications such as first-gen semicon equipment. The B_2O_3 binder is hygroscopic and so extreme care should be taken in its machining, storage and application.

es
Boric Acid
erature
750°C
1.610 >40 20
ra Perp)
>10 ¹⁴ (>10 ¹⁵) .0017 (.0005) 4.5
ivity
30
effiecient
2
(psi)*
8 MPa
ngth
150 MPa
2.00 4.0% 4.5% 0.1% 0.2%

*Based on 4pt bend test-Sample size = 51mm x 4mm x 3mm