

BORON OXIDE NANOPOWDER



Purity 99.9%

 B_2O_3















BORON OXIDE NANOPOWDER

Boron trioxide has amorphous structure and its chemical formula is B2O3. It is also a oxide of boron and it become crystalline after great annealing. The reactivity of the boron is mainly dependent on the structure whether it is in amorphous or crystalline structure. It has potential applications in fuels or additive material in the fuels.

Amorphous boron has high density, high melting point, chemically inert, high hardness and thermal stability. It is also used in coating materials and prepares composite materials. Boron oxide usually reacts with water so for synthesis purpose some methods cannot useful such as sol gel method, hydrothermal method. Boron oxide is only prepared by ball-milling. B2O3 used in glasses and also these glasses are utilized for radiation shielding as well as in dielectric applications.

Quick FACTS

Product : Boron Oxide Nanopowder

Stock No : NS6130-03-400

CAS : 1303-86-2

Color : White

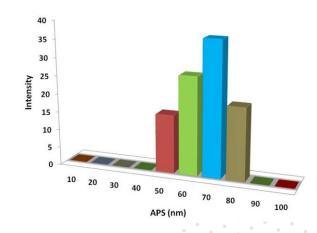
Form : Powder

Symbol : B_2O_3

Group: Boron 3/Oxygen 16

Electronic Configuration:

Boron [Xe] 4f7 5d1 6s2/Oxygen [He] 2s2 2p4



ADDITIONAL POWDER CHARACTERISTICS

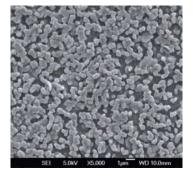
Stock No.	Purity	APS
NS6130-03-400	99.9%	70nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
B ₂ O ₃	69.61 g/mol	2.46 g/cm ³	510 °C

CHEMICAL COMPOSITION

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Product	Weight Percent (nominal)	
	B ₂ O ₃	Other Metal
Boron Oxide Nanopowder	99.9%	1000ppm



APPLICATIONS

- > Glass
- > Optics
- > Boron compound synthesis
- > As an acid catalyst in organic synthesis







ISO 9001:2015
CERTIFIED COMPANY

INDIA