

TECHNICAL DATA SHEET

Boron Carbide Sintering Aid Powder

Typical Chemistry

Boron Carbide (B ₄ C)	94.20 %
Total Boron (B)	76.50 %
Free Boron (B)	0.60 %
Boron Oxide (B ₂ O ₃)	0.60 %
Compound Boron (B)	75.80 %
Total Carbon (C)	21.20 %
Free Carbon (C)	2.80 %
Compound Carbon (C)	18.40 %
Iron Oxide (Fe ₂ O ₃)	0.20 %

Typical Chemistry

d10	d50	d90
10 μm	3 μm	0.85 μm

Description:

GNPGraystar's Fine Boron Carbide powder is used as a sintering aid for making Silicon Carbide (SiC) sintered ceramics. This Boron Carbide aids in the sintering process by removing oxygen and is typically used as 1 - 2 % by weight (not volume).

Applications:

GNPGraystar's Boron Carbide Sintering Aid is used in the production of various wear components, armor, blast nozzles, dressing sticks, etc.

info@GNPGraystar.com

Rev. 02/2020