



GNP Graystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



TECHNICAL DATA SHEET Boron Carbide Sintering Aid Powder

Typical Chemistry

| | |
|--------------------------|---------|
| Boron Carbide (B_4C) | 94.20 % |
| Total Boron (B) | 76.50 % |
| Free Boron (B) | 0.60 % |
| Boron Oxide (B_2O_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_2O_3) | 0.20 % |

Typical Chemistry

| d10 | d50 | d90 |
|------------|-----------|--------------|
| 10 μm | 3 μm | 0.85 μm |

Description:

GNP Graystar'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:

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

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