



# GNP Graystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



## TECHNICAL DATA SHEET Boron Carbide Powder - Nuclear Grade

### Typical Chemistry

	Weight %
Total Boron (B)	76.5 - 81.0 %
HNO <sub>3</sub> Soluble Boron	0.6 % max.
Water Soluble Boron	0.2 % max.
Fluoride	25 micro gm/gm max.
Chloride	75 micro gm/gm max.
Calcium	0.3 % max.
Iron	1.0 % max.
Water	750 micro gm/gm max.
Al	< 3000 ppm
Mg	< 1500 ppm
Si	< 1500 ppm
Total Boron + Carbon	98 % min.

### Description:

GNP Graystar's Nuclear Grade Boron Carbide Powders are designed to meet ASTM C750 specifications. These powders are designed for use in sintering/hot pressing to make neutron absorber rods or as powders in neutron shielding assemblies. Particle sizes can be customized based on the final requirement of the customer.

GNP Graystar's Nuclear Grade Boron Carbide Powders are also extensively used as an additive to concrete in Nuclear Powder Plants.

Typical grades that are used as additive to concrete is GNP Graystar's 100 F (average size below 112 micron) or GNP Graystar's 400 F (average particle size 36 micron).

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