



GNP Graystar

Specialty Materials

TECHNICAL DATA SHEET

15 - Boron Carbide Submicron Powder

Typical Chemistry

	15
Boron : Carbon Ratio	3.6 - 3.9
Total Carbon	20.5 % min.
Iron	0.2 % max.
Oxygen	2.0 % max.
Nitrogen	0.7 % max.

Physical Characteristics

Color:	Black
Crystal Form:	Rhombohedral
True Density:	2.52 g/cm ³
Melting Point:	2350°C
Hardness:	Knoop (100): 2800 Mohs: 9.3+

Sizing & Specific Surface Area

Sizing (Malvern 2000)	Typical
d10	0.20 µm
d50	0.53 µm
d90	2.10 µm

Specific Surface Area

BET m ² /g	15-21 m ² /g
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Description:

GNP Graystar's 15 - Submicron / Sinterable Boron Carbide is milled and treated to exacting specifications to allow for optimum density in ceramic components.

Applications:

GNP Graystar's 15 - Submicron / Sinterable Boron Carbide is primarily used in ceramics where light weight is required, for example, ceramic armor. It can be used alone or blended with Submicron / Sinterable Silicon Carbide.

info@GNPGraystar.com

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Northern Office
37 John Glenn Dr.
Amherst, NY 14228
716.759.6600

www.GNPGraystar.com

Southern Office
9 Simmonsville Rd.
Bluffton, SC 29910
843.815.5600