



GNP Ceramics, LLC

Technical Data

Boron Carbide - Macrogrits

Typical Chemistry

Boron Carbide(B4C):	98.3%
Total Boron (B):	78.07%
Total Carbon (C):	20.55%
Iron Oxide (Fe2O3):	0.07%
Soluble B2O3	0.07%

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+

Test Methods

Sizing: FEPA F Standard 42-1:2006
Sizes 8-220
Custom Sizes

Boron Carbide - Macrogrits

Description:

Boron Carbide is produced by the carbothermal reduction of B2O3 in an electric arc furnace. The resulting ceramic product is one of the hardest materials available behind cubic boron nitride and diamond.

Applications:

GNP Ceramic's Boron Carbide macrogrits are used in refractory mixes, lapping, ultrasonic machining, grinding materials, and as a chemical precursor for the production of boron halides and metal borides - for example Boron Trichloride (BCl₃).

Contact us:

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Manufacturers and Distributors of Premium Ceramic Materials

Silicon Carbide Aluminum Oxide Boron Carbide Zirconias Ceramic Media
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