



GNP Ceramics, LLC

Technical Data

Black Silicon Carbide Microgrits

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Description:

Silicon Carbide is produced at a high temperature in an electrical resistance arc furnace with quartz and petroleum coke as its primary raw materials. The final product is sharp and friable with outstanding electrical and thermal conductivity. GNP Ceramic's Silicon Carbide powders are produced using various techniques to optimize shape, surface area, and density.

Applications:

GNP Ceramic's powders are used for wire sawing semiconductor materials, lapping, fine bonded and coated applications, refractory materials, precision ceramics and other critical applications.

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Typical Chemistry

Silicon Carbide (SiC)	98.10%
Free Silicon (Si)	0.30%
Silicon Dioxide (SiO ₂)	0.50%
Free Carbon (C)	0.15%
Iron Oxide (Fe ₂ O ₃)	0.28%

Physical Characteristics

Crystal Form:	Hexagonal
True Density:	3.21 g/cm ³
Melting Point:	Dissociates at ~2500 C
Hardness:	Knoop (100) -2500; Mohs 9.0+

Test Methods

Sizing: FEPA F Standard 42-2:2006
FEPA P Standard 43-2:2006
JIS R 6001-1987

Micron sizes based on Coulter Multisizer

Lapping grade available with strict coarse and fine particle control.

Manufacturers and Distributors of Premium Ceramic Materials

Silicon Carbide Aluminum Oxide Boron Carbide Zirconias Ceramic Media Cerium Oxide
Buffalo Grand Rapids Houston Indianapolis Los Angeles Phoenix Portland Ontario, Canada