



GNP Ceramics, LLC

Technical Data

Green Silicon Carbide Microgrits

Typical Chemistry

Silicon Carbide (SiC)	99.31%
Free Silicon (Si)	0.19%
Free Carbon (C)	0.09%
Iron (Fe)	0.03%
Aluminum (Al)	0.01%
Oxygen (O ₂)	0.05%

Physical Characteristics

Crystal Form:	Hexagonal
True Density:	3.21 g/cm ³
Melting Point:	Dissociates at ~2800 C
Hardness:	Knoop (100) -2600; Mohs 9.4

Test Methods

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

Micron sizes based on Coulter Multisizer

Lapping grade available with strict coarse and fine particle control.

Green Silicon Carbide Microgrits

Description:

Green Silicon Carbide is a high purity silicon carbide produced in an electrical resistance arc furnace with high purity quartz and coke as its primary raw materials. The final product produces a harder, sharper, and more friable crystal than Black Silicon Carbide. GNP Ceramic's Green Silicon Carbide grains 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.

Contact us:

*4255 Research Parkway
P.O. Box 525
Clarence, NY 14031
Phone: 716-759-6600
Fax: 716-759-6602*

Manufacturers and Distributors of Premium Ceramic Materials

Silicon Carbide Aluminum Oxide Boron Carbide Zirconias Ceramic Media Cerium Oxide
Atlanta Buffalo Dallas Houston Indianapolis Grand Rapids Los Angeles Phoenix Portland San Antonio



GNP Ceramics, LLC

Technical Data

Black Silicon Carbide Microgrits

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.

Black Silicon Carbide Microgrits

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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