



Green Silicon Carbide Sub-Micron Sinterable Powder

Green Silicon Carbide Sinterable Powder

Description:

Sinterable Green Silicon Carbide Powders are processed to specific surface areas and purities for technical and structural ceramics. The powders are produced to obtain optimum sinterability.

Applications:

GNP Ceramic's Sinterable Powders are used in technical ceramics such as armor, seals, and wear resistant components. They are also used where a fine powder application demands consistent particle size distribution and surface area.

Contact us:

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Typical Chemistry and Physical Analysis		
		<u>Limits</u>
Free Silicon Dioxide (SiO ₂)	0.65 %	0.80%
Free Silicon (Si)	0.09 %	0.30%
Free Carbon (C)	0.08 %	0.12%
Total O ₂	0.6 %	0.85%
Aluminum (Al)	< 100 ppm	
Sodium (Na)	< 200 ppm	
Magnesium (Mg)	< 100 ppm	
Calcium (Ca)	< 300 ppm	
Titanium (Ti)	< 100 ppm	
Iron (Fe)	< 150 ppm	500 ppm
PH	4.5	5 +/- 1

<u>Sizes</u>	<u>Specific Surface Area (BET)</u>	<u>Typical PSD (Malvern)</u>		
		<u>D(10)</u>	<u>D(50)</u>	<u>D(90)</u>
GS6.5	6.8 (+/- 0.5) m ² /g	0.40 +/- 0.06	1.35 +/- 0.10	3.3 +/- 0.30
GS9	9.0 (+/- 0.5) m ² /g	0.38 +/- 0.04	0.95 +/- 0.04	2.2 +/- 0.20
GS13	13.5 (+/- 1.5) m ² /g	0.17 +/- 0.04	0.55 +/- 0.05	1.2 +/- 0.10
GS16.5	18.0 (+/- 3.0) m ² /g	0.17 +/- 0.05	0.50 +/- 0.05	1.1 max
GS23.5	20.0 (+/- 3.0) m ² /g	0.17 +/- 0.03	0.45 +/- 0.05	0.87 max

Proprietary blends are available to optimize desired shrinkage and/or density in sintered material.

Manufacturers and Distributors of Premium Ceramic Materials

Silicon Carbide Aluminum Oxide Boron Carbide Zirconias Ceramic Media
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