



# GNP Graystar

Specialty Materials

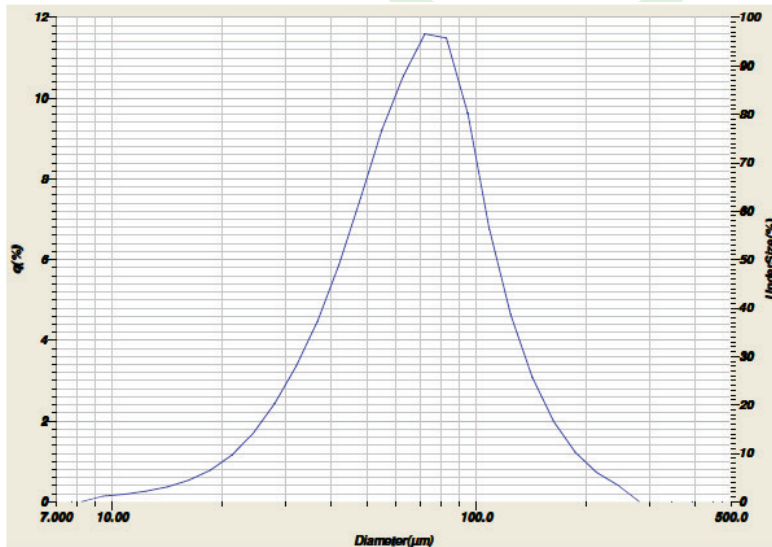
## TECHNICAL DATA SHEET

### Green Silicon Carbide - Ready to Press Powder

#### Typical Granulate Characteristics

Moisture	0.30 %
Bulk Density	0.88 g/cm <sup>3</sup>
Tap Density	0.95 g/cm <sup>3</sup>
Flow Time (Sec)	100
Angle of Repose	30°
Intrusion of Volume	0.73 ml/g
Hausner Ratio	1.14
Green Density	1.84 g/cm <sup>3</sup>
Density after Sintering	>3.12 g/cm <sup>3</sup> ; Typical - 3.17 g/cm <sup>3</sup>

\* Suggested Sintering Profiles are Available



d90|123.3932µm    d50|68.7169µm    d10|33.0520µm

Note: distribution can be adjusted from 30–80 µm at d50.

#### Description:

GNP Graystar's Ready to Press Green Silicon Carbide Powders are spray dried granules based on our Sinterable (GS) High Surface Area Powders. This premix includes the necessary binders, pressing aids, and sintering aids to be pressed directly into various green ceramic bodies.

#### Applications:

GNP Graystar's RTP Green Silicon Carbide is primarily used for various ceramics such as armor, seals, and wear-resistant parts.

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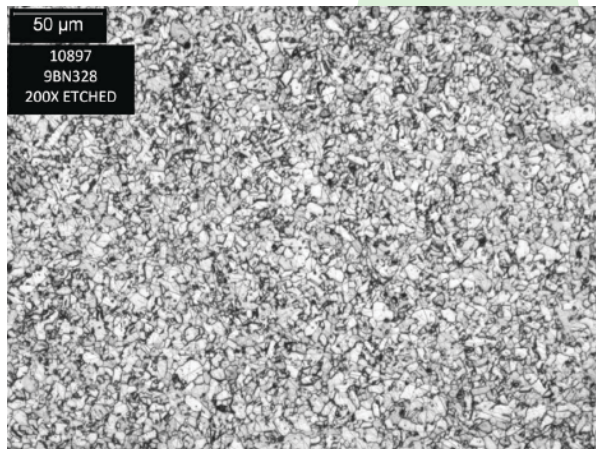
Green Silicon Carbide -  
Ready to Press Powder, Cont.

### SiCS-17

Mold TSI	Green Thk	Green AD	Die Mold Sintered AD	MTS ODM Shrinkage	Blank ODM Shrinkage	DM Shrinkage
6	0.3993	1.812	3.150	17.8 %	18.2 %	20.2 %
9	0.3833	1.863	3.160	17.2 %	17.4 %	19.5 %
12	0.3820	1.892	3.167	16.7 %	17.0 %	19.2 %
15	0.3774	1.920	3.169	16.3 %	16.8 %	18.8 %

### SiCS-18

Mold TSI	Green Thk	Green AD	Die Mold Sintered AD	MTS ODM Shrinkage	Blank ODM Shrinkage	DM Shrinkage
6	0.4113	1.753	3.173	18.1 %	18.9 %	20.5 %
9	0.4113	1.808	3.179	17.2 %	18.1 %	19.9 %
12	0.4113	1.834	3.182	16.7 %	17.6 %	19.5 %
15	0.4113	1.853	3.187	16.5 %	17.3 %	19.0 %



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