



GNP Ceramics, LLC

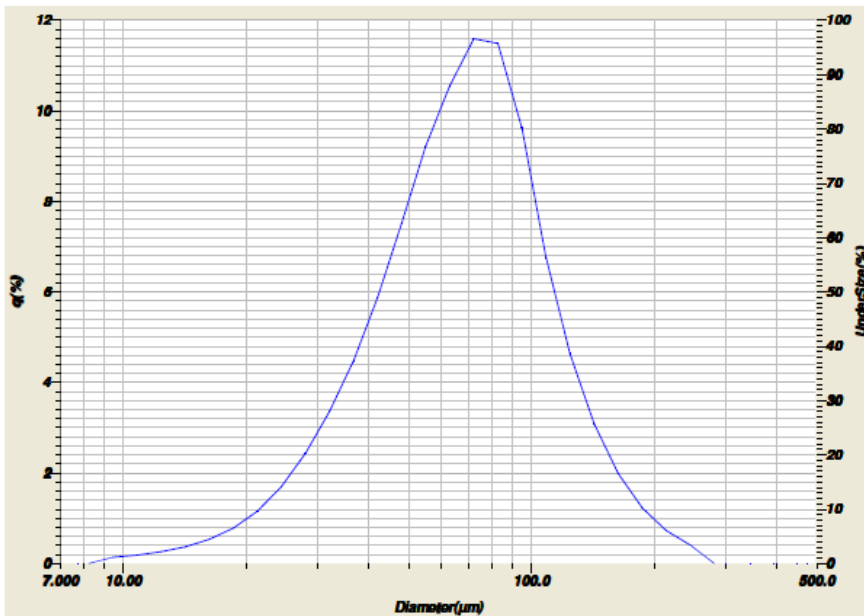
Technical Data

Green Silicon Carbide Ready to Press Powder

Typical Granulate Characteristics

Moisture:	0.30%
Bulk Density:	0.80 g/cm ³
Tap Density:	0.95 g/cm ³
Flow Time (sec):	100
Angle of Repose:	26°
Intrusion Volume:	0.73 ml/g
Hausner Ratio:	1.14
Green Density:	1.80 g/cm ³
Density after Sintering:	>3.12 g/cm ³ Typical 3.17 g/cm ³

*Suggested Sintering profiles are available



d90 123.3 µm **d50** 68.7 µm **d10** 33.0 µm

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

Green Silicon Carbide Ready to Press Powder

Description:

GNP Ceramic's Ready to Press Powders are spray dried granules based on our sinterable GS High Surface Area material. This premix includes the necessary binders, pressing aids, and sintering aids to be pressed directly into various green ceramic bodies.

Applications:

Primarily used for various ceramics such as armor, seals, and wear resistant parts.

Contact us:

*4255 Research Parkway
Clarence, NY 14031
phone 716-759-6600
fax 716-759-6602
sales@GNPceramics.com*

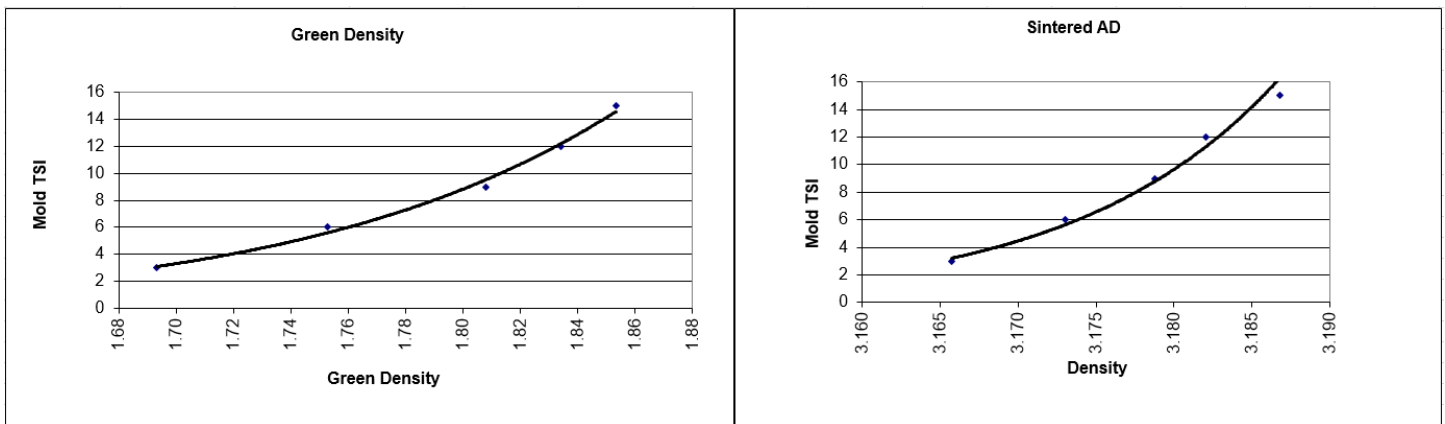
Manufacturers and Distributors of Premium Ceramic Materials

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

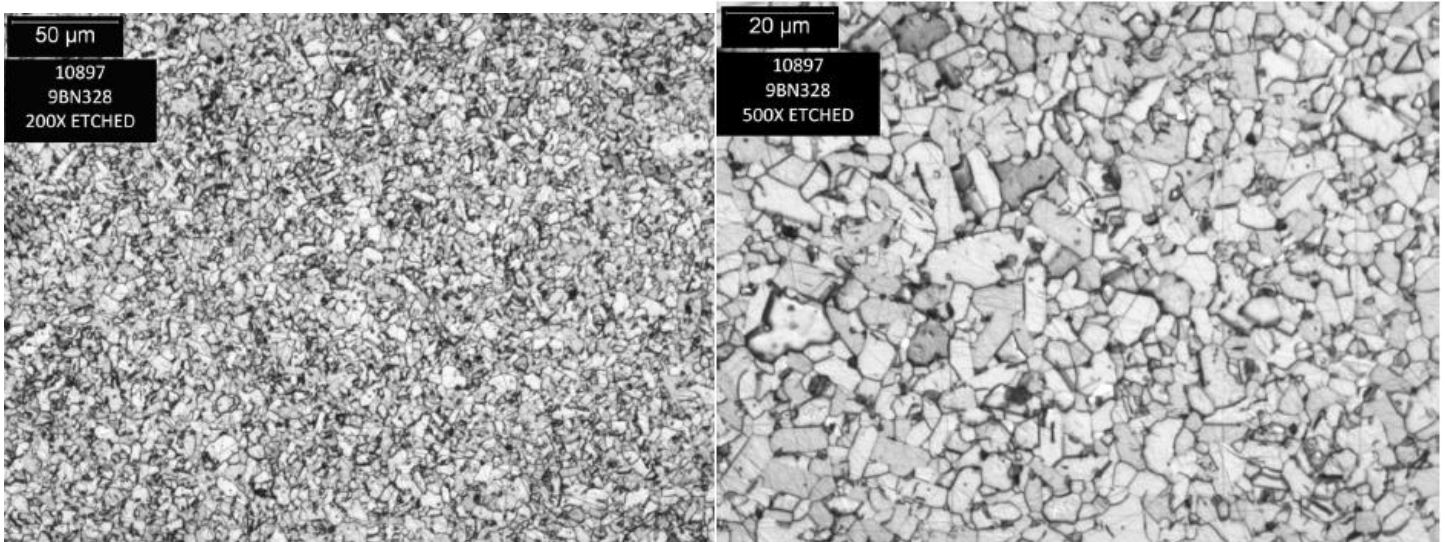
Compaction Curve Data

Mold TSI	Green Thk	Green AD	Die Mold Sintered AD	MTS ODM Shrinkage	Blank ODM Shrinkage	DM Shrinkage
3	0.4113	1.693	3.166	19.0%	19.7%	21.3%
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%

Density Graphs



Micrographs



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