

SiC and B₄C Powders

We supply multiple grainsizes of SiC and B₄C powders and recipes for ceramic sintering and other applications such as coating and semiconductor manufactures.

1, Ready-to-use SSiC Powder (SC01®)

Composed of green alpha SiC, acrylic resin as the binder and starch carbon as the carbon system, SC01® is a turn-key solution for self-sintered silicon carbide (SSiC) manufacture.

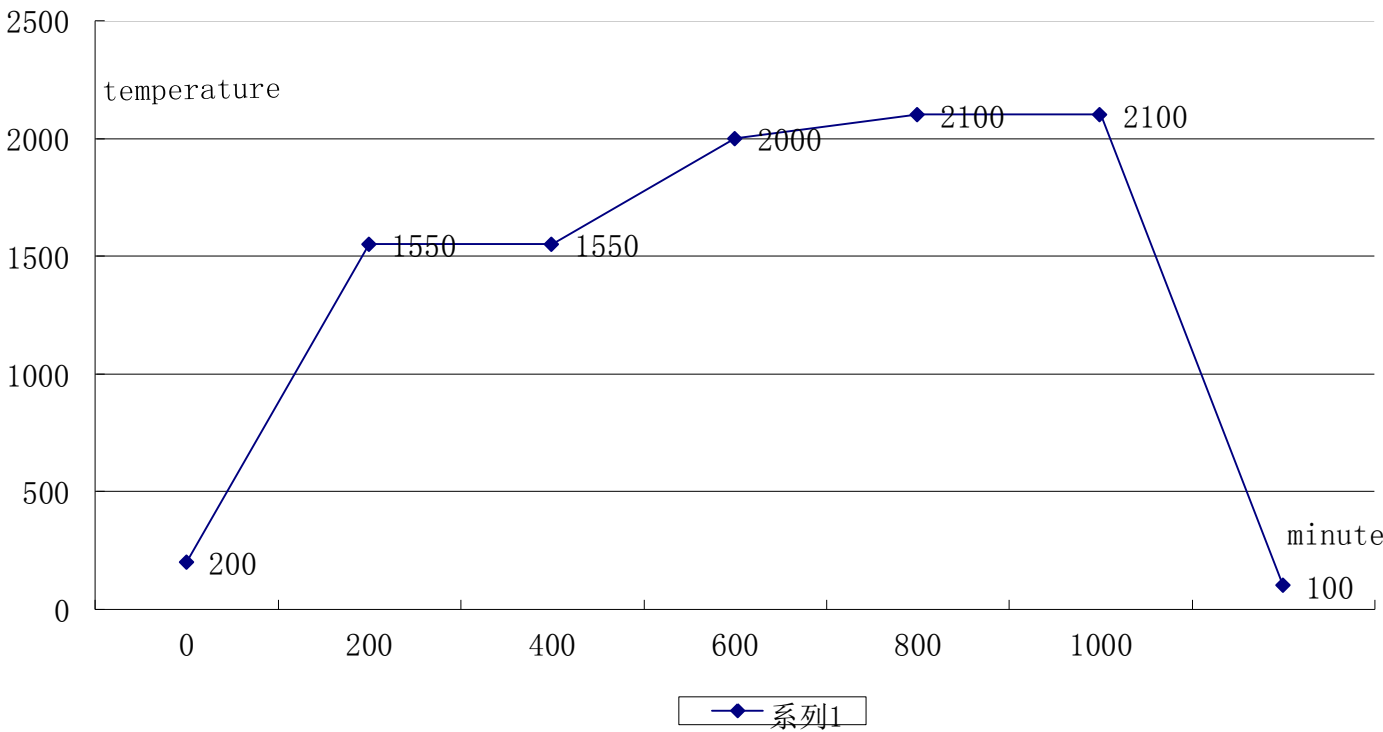
Powder’s Physical Properties

Index	Unit	Value
Grainsize	mesh	≤80
Moisture	%	≤1.5
Bulk Density ISO3369	g/cm ³	0.81
Pressed Density @1300 Bar	g/cm ³	≥1.85
Green Strength	Mpa	2.5
Axial Pressing Shrinkage @1500 Bar		1.8-1.21
Axial Pressing Shrinkage @1800 Bar		1.88-1.2

Powder Specification

Fe %	Al %	Ti %	Ca %	Mg %	Na %	K %	Balance
<0.05	<0.05	<0.02	<0.02	<0.01	<0.01	<0.01	SiC & C

Instuction on debinding and other processing is available on request:

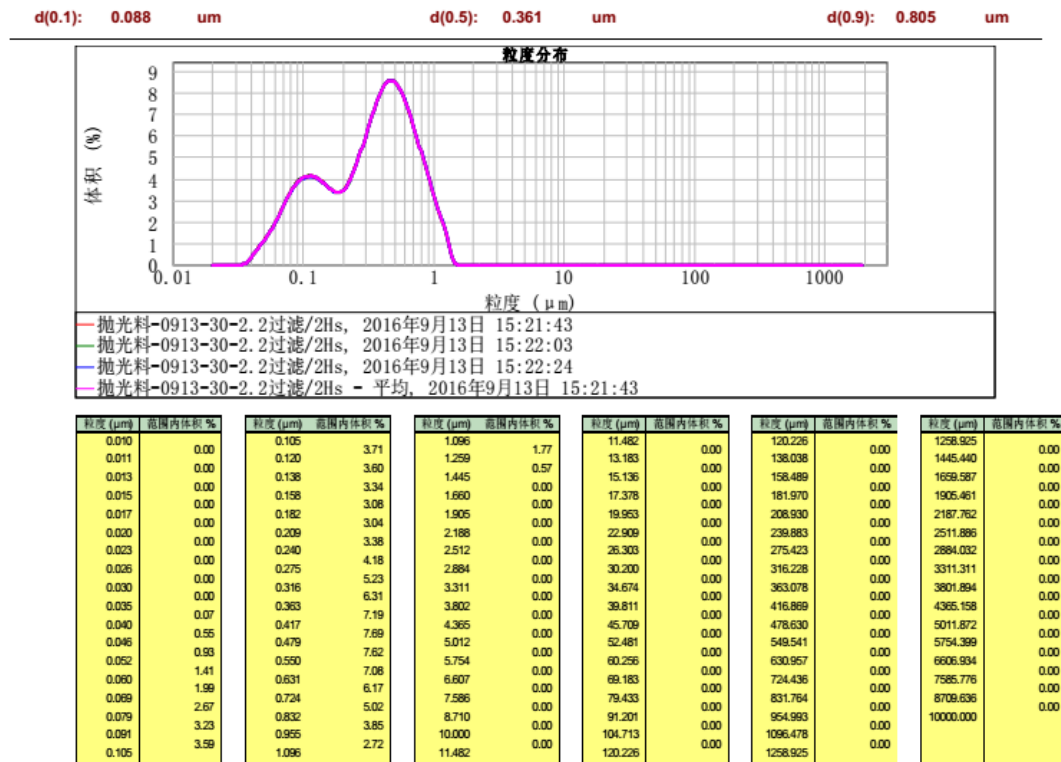


Sinter's Physical Properties

Index	Unit	Value
Density ISO3369	g/cm ³	≥3.15
Weight Loss	%	8
Microstructure ISO4505	10μm	≤2
HV ₁ ISO3878		2400
Compressive Pressure	Mpa	3910
Flexural Strength	Mpa	380
Elastic Modulus	Gpa	420
Thermo Expansion Rt to 400℃	4.5x10 ⁻⁶ mm/mm℃ K	4.02

2, Customized SiC and B₄C Micro Powders

We are open to SiC and B₄C micro powder requirements with the min grainsize at 0.2μm for various applications such as abrasives and additives.



SiC Granular Analysis



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