

GREEN SILICON CARBIDE

Product Information



Green Silicon Carbide Description

Green Silicon Carbide is made from high-quality silica and petroleum coke as the main raw materials, with salt added as the additive and smelted by electric resistance furnace at high temperature. It contains more than 99% SiC, is harder, sharper, and more friable crystal than Black Silicon Carbide.

The sharp, blocky grains of Green Silicon Carbide are highly pure and have extreme hardness (Mohs 9.4 /Knoop 2600), strong cutting capacity, excellent Abrasion Resistance, stable chemical properties, outstanding thermal conductivity, and high strength at high temperatures.



Data Sheet

Crystal Form	:	Alpha SiC
Particle Shape	:	Blocky, sharp edged
Color	:	Green
Friability	:	Friable
Melting Point	:	Dissociates at ~2800°C
Bulk Density	:	1.20-1.60g/cm ³
Specific Gravity	:	3.21g/cm ³ Min
Mohs Hardness	:	9.4
Knoop hardness (100 scale)	:	2600kg/mm ²

Chemical Composition

Type & Grade	Grit Size	Chemical Composition (% , by weight)			Bulk Density g/cm ³
		SiC	F.C	Fe2O3	
GC-F	F12~F100	≥99.2	≤0.10	≤0.15	1.35-1.59
	F150~F220	≥99.0	≤0.20	≤0.30	1.35-1.45
	F240-1200	≥99.0	≤0.40	≤0.60	1.10-1.38
GC-P	P12-P100	≥99.2	≤0.10	≤0.15	1.35-1.59
	P150-P220	≥99.0	≤0.20	≤0.30	1.35-1.45
	P240-P2500	≥99.0	≤0.40	≤0.60	1.10-1.38

Available grit sizes

We offers both Macro and Micro grit sizing. Our Silicon Carbide is offered in standard FEPA sizes, custom particle

sizes, custom densities, and custom chemistries.

For Bonded Abrasives Application:

FEPA F

Macro :F12, F24, F30, F36, F40, F46, F54, F60, F80, F100, F120, F150, F180, F220

Micro: F240, F280, F320, F360, F400, F500, F600, F800, F1000, F1200

For Coated Abrasives Application:

FEPA P

Macro :P24, P30, P36, P40, P50, P60, P80, P100, P120, P150, P180, P220

Micro:P240, P280, P320, P360, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500

.Noted :Custom sizes and shaped are also available upon request.

Packaging

Standard Packaging:

- Big bags(1000kgs , 1250kgs, 1350kgs) with or without pallets;
- 20 or 25kg plastic.or paper bags, with or without pallets.

*Custom Packaging is available upon request.

Application

- Bonded and Coated Abrasives (include vitrified & resin grinding wheels, honing stones, blasting grain/powder)
- Surface treatment: Lapping and polishing, blasting media
- Cutting: Used in both water-jet and wire-saw cutting
- Refractory materials
- Glass Steel Tube
- Electronics and Semiconductor production., like LEDS & Semiconductor devices that operate at high temperature
- Technical Ceramics, such as Automotive Brakes and clutches, wear-resistant seals/rings/ nozzles, coatings, metal-matrix composites, kiln furniture, ceramic plates in body and vehicle armor, Silicon Carbide heating elements



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