

# 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 <sup>3</sup>
Specific Gravity	:	3.21g/cm <sup>3</sup> Min
Mohs Hardness	:	9.4
Knoop hardness (100 scale) : 2600kg/mm <sup>2</sup>		

### Chemical Composition

Type & Grade	Grit Size	Chemical Composition (% , by weight)			Bulk Density g/cm <sup>3</sup>
		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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