MAXHOT

GREEN SILICON CARBIDE

Green Silicon Carbide (SiC) is the product of silica quartz sand and petroleum coke electrofused at high temperature in an arc furnace. The sharp, blocky grains of Green Silicon Carbide are highly pure and have extreme hardness (Mohs 9.4 / Knoop 2600), strong cutting capacity, stable chemical properties, excellent thermal conductivity, and high strength at high temperatures.

CHEMICAL COMPOSITION

Specifications	SIC≥%	Free C≤%	Fe_2O_3≤%
#12 - 90	99.00	0.2	0.2
#100 -180	98.50	0.3	0.3
#220	98.00	0.3 - 0.6	0.3 - 0.6

GREEN SILICON CARBIDE MICRO-POWDER

	Chemical Index			Physical Index		
Grains	SiC ≥%	Free C ≤%	Fe_2O_3 ≤%	pH Value	Bulk Density	Magnetic Material
#240	99.00	0.13	0.13	6 - 7.5	1.25	0.01
#280	99.00	0.13	0.13	6 - 7.5	1.23	0.01
#320	99.00	0.12	0.12	6 - 7.5	1.23	0.01
#360	99.00	0.12	0.12	6 - 7.5	1.20	0.009
#400	99.00	0.13	0.13	6 - 7.5	1.20	0.009
#600	99.00	0.13	0.13	6 - 7.5	1.18	0.008
#800	99.00	0.12	0.12	6 - 7.5	1.18	0.008
#1000	99.00	0.12	0.12	6 - 7.5	1.15	0.005
#1200	99.00	0.15	0.13	6 - 7.5	1.13	0.005
#1500	99.00	0.15	0.13	6 - 7.5	1.12	0.005
#2000	99.00	0.14	0.15	6 - 7.5	1.00	0.005
#2500	98.00	0.30	0.30	6 - 7.5	1.00	0.007
#3000	97.00	0.35	0.30	6 - 7.5	0.92	0.007
#4000	97.00	0.35	0.30	6 - 7.5	0.92	0.007
#6000	97.00	0.25	0.30	6 - 7.5	0.90	0.007

GRANULARITY DISTRIBUTION

Grains	D0 <	D3 <	D50	D94 >
#240	120.0	100.0	57.0±3.0	40.0
#280	110.0	80.0	48.0±3.0	33.0
#320	95.0	70.0	40.0±2.5	27.0
#360	70.0	55.0	30.0±2.0	20.0
#400	60.0	48.0	25.0±2.0	16.0
#600	50.0	38.0	20.0±1.5	13.0
#800	30.0	20.0	14.0±1.0	9.0
#1000	25.0	19.0	11.5±1.0	7.0
#1200	20.0	18.0	9.5±1.0	5.5
#1500	19.0	17.0	8.0±0.6	4.5
#2000	17.0	15.0	6.7±0.6	4.0
#2500	15.0	13.0	5.5±0.5	3.0
#3000	13.0	11.0	4.0±0.5	2.0
#4000	11.0	8.0	3.0±0.4	1.3
#6000	8.0	5.0	2.0±0.4	0.8

GRITSAVAILABLE

F12 to F220; #240 to #6000

In accordance with the current FEPA / JIS/ ANSI sieve standards.

Important: The technical data herein is believed to be accurate. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product.

APPLICATIONS

- **Abrasives:** Used to manufacture high- quality vitrified, resin-bonded, and coated abrasives products such as grinding wheels, honing stones, and sheet materials.
- **Blasting:** Used in the form of both grains and powders.
- **Polishing:** Used as a component of lapping and polishing compounds.
- **Cutting:** Used in both water-jet and wire-saw cutting.
- **Refractories:** Used to produce light- weight and highly durable kiln furniture for high-heat applications such as firing ceramics and fusing or casting glass.
- **Electronics:** Used in the production of LEDs and in semiconductor devices that operate at high temperatures or high voltages or both.
- **Ceramics:** Silicon Carbide grains are sintered to produce very hard ceramics for applications that require high endurance, such as automobile brake and clutches, wear-resistant seals/ rings/nozzles, coatings, metal-matrix composites, kiln furniture, ceramic plates in body and vehicle armor, silicon carbide heating elements, and many more.
- **Steel Production:** Because of its purity and composition, Silicon Carbide used as fuel improves yields and adjusts materials content in processing steel scrap, producing cleaner steel with lower emissions.

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(Stockists, Supplier of Blasting Abrasives like Garnet, GS Balls, Steel Shots, Steel Grits, White & Brown Aluminium Oxides, Glass beads, Silicon Carbides, Emery grits, Silica Sand etc)