

MAXHOT METALCAST SOLUTIONS SDN BHD (1240137-D)
 (Importer/Stockists/Distributors of Blasting Abrasives)

BLACK SILICON CARBIDE

Black Silicon Carbide is the product of silicon quartz sand and petroleum coke electrofused at high temperature in an electrical resistance furnace. The grains of Black Silicon Carbide are hexagonal crystals that are extremely hard, sharp, and friable, and have outstanding electrical and thermal conductivity and low thermal expansion.



CHEMICAL COMPOSITION

Specification	SIC	Free C	Fe ₂ O ₃
#12 -#90	≥ 98.50%	≤ 0.2%	≤ 0.2%
#100 - #180	≥ 98.00%	≤ 0.3%	≤ 0.3%
#220	≥ 97.50%	≤ 0.3 - 0.6%	≤ 0.3 - 0.6%

BLACK SILICON CARBIDE MICRO-POWDER

Grains	Chemical Index (%)			Physical Index		
	SiC	Free C	Fe ₂ O ₃	pH value	Bulk Density	Magnetic
#240	≥ 98.50	≤ 0.18	≤ 0.19	6 - 7.5	1.26	0.010
#280	≥ 98.50	≤ 0.18	≤ 0.19	6 - 7.5	1.26	0.010
#320	≥ 98.50	≤ 0.18	≤ 0.19	6 - 7.5	1.23	0.010
#400	≥ 98.00	≤ 0.18	≤ 0.19	6 - 7.5	1.23	0.015
#500	≥ 98.00	≤ 0.20	≤ 0.20	6 - 7.5	1.20	0.015
#600	≥ 98.00	≤ 0.20	≤ 0.20	6 - 7.5	1.20	0.015
#800	≥ 98.00	≤ 0.20	≤ 0.20	6 - 7.5	1.18	0.008
#1000	≥ 98.00	≤ 0.20	≤ 0.20	6 - 7.5	1.15	0.008
#1200	≥ 98.00	≤ 0.20	≤ 0.20	6 - 7.5	1.13	0.005
#1500	≥ 98.00	≤ 0.20	≤ 0.20	6 - 7.5	1.12	0.005
#2000	≥ 97.50	≤ 0.20	≤ 0.20	6 - 7.5	1.00	0.005

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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
#400	70.0	55.0	30.0 ± 2.0	20.0
#500	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

GRITS AVAILABLE

F12 to F220; P16-P220; #240 to #4000

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

Other sizes available on request.

APPLICATIONS

- **Abrasives:** Used in the manufacture of bonded and coated abrasive products.
- **Grinding:** Particularly for non-ferrous metals and other tough, hard materials.
- **Blasting:** Particularly for very hard surfaces, removal of heavy rust, and fast etching of glass and stone.
- **Lapping and Polishing:** For surface treatment of metals, stone, glass and ceramics, among others.
- **Automobile Parts:** Used to produce extremely heat-tolerant parts, such as brake pads for high-performance automobiles.
- **Roadways and Flooring:** Used to add slip-resistance to pavement and industrial flooring.

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.