OTHER PRODUCTS IN GROUPS - SILICON CARBIDE

GREEN SILICON CARBIDE

GREEN SILICON CARBIDE HAS A HIGH PURITY LEVEL AND FINDS ITS APPLICATION IN HIGH-END LAPPING ABRASIVES, ELECTRONICS / SEMI-CONDUCTORS, AND GRINDING WHEELS.

Product code: OM-GSC

Description

Green Silicon Carbide consists of crystalline silicon carbide, which is produced from silica sand, petroleum coke, and NaCl (to increase purity) in electric resistance furnaces at temperatures of > 2.300 °C. Silicon carbide is iron-free, blocky, and extremely hard.

Applications

- Grinding wheels
- Reusable abrasive
- Grinding, lapping and polishing
- Wear-resistant and refractory products

GREEN SILICON CARBIDE

TYPICAL CHEMICAL ANALYSIS

SiC	99,32%
Fe_2O_3	0,16%
Free C	0,12%
Magnetic particles	? %

TYPICAL PHYSICAL PROPERTIES

Hardness	9 - 10 mohs
Grain shape	Blocky, with sharp edges
Specific gravity	Approx. 3,2 g/m³
Bulk density (Dependent upon granular size)	Approx. 1,2 - 1,4 g/m³

PACKAGING

25 kg paper or plastic bags on pallet up to 1 ton

1 ton loose in bulk bag

Other packaging available upon request

AVAILABLE SIZES

SPECIAL SIZES

Specialty sizes available upon request

REGULAR SIZES & TYPICAL BULK DENSITY

FEPA	Avg. Grain Size (µm)	Typical Bulk Density (g/cm³)
F008	2000 - 2800	1,38 - 1,42
F010	1700 - 2360	1,40 - 1,44
F012	1400 - 2000	1,38 - 1,42
F014	1180 - 1700	1,43 - 1,47
F016	1000 - 1400	1,48 - 1,52
F020	850 - 1180	1,48 - 1,52
F022	710 - 1000	1,48 - 1,52
F024	600 - 850	1,49 - 1,53
F030	500 - 710	1,50 - 1,54
F036	425 - 600	1,51 - 1,55
F040	355 - 500	1,51 - 1,55
F046	300 - 425	1,50 - 1,54
F054	250 - 355	1,49 - 1,53
F060	212 - 300	1,52 - 1,56
F070	180 - 250	1,50 - 1,54
F080	150 - 212	1,49 - 1,53
F090	125 - 180	1,43 - 1,47
F100	106 - 150	1,39 - 1,43
F120	90 - 125	1,33 - 1,37
F150	63 - 106	1,31 - 1,35
F180	63 - 90	1,28 - 1,32
F220	53 - 75	1,26 - 1,30

Micro Sizes - available upon request

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