



GREEN SILICON CARBIDE

HIGH PURITY GREEN SILICON CARBIDE FOR CERAMIC APPLICATIONS

Electro Abrasives, LLC. manufactures Green Silicon Carbide powders by water classification at our state-of-the-art headquarters in Buffalo, NY USA. All chemistry and sizing is controlled to meet exact customer requirements. All Green Silicon Carbide manufactured at Electro Abrasives, LLC meets or exceeds ANSI or FEPA standards for product quality.

ABOUT:

Green Silicon Carbide (SiC) is an extremely hard (Mohs 9.4 / 2600 Knoop) man made mineral that possesses high thermal conductivity and high strength at elevated temperatures (at 1000°C, SiC is 7.5 times stronger than Al₂O₃). SiC has a modulus of elasticity of 410 GPa, with no decrease in strength up to 1600°C, and it does not melt at normal pressures but instead dissociates at 2700°C.

APPLICATIONS:

Green Silicon Carbide is extremely pure. It can be manufactured into many complex bonded shapes for many applications including wear resistant seals/rings/nozzles, coatings, metal-matrix composites, kiln furniture, silicon carbide heating elements, body & vehicle armor, and many other applications.

TYPICAL CHEMICAL ANALYSIS	
SiC	99.0%
SiO ₂	0.4%
Si	0.25%
Fe	0.05%
C	0.2%

TYPICAL PHYSICAL PROPERTIES	
Hardness:	Knoop: 2600 Mohs: 9.4
Melting Point:	Sublimes at 4892°F (2700°C)
Specific Gravity:	3.2 g/cc
Particle Shape:	Blocky, Sharp
Color:	Green

AVAILABLE SIZES
Macro: 14 grit—240 grit
Micro: F320 grit - F1500 grit, 0.7 micron
Custom Sizes Available Upon Request



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