

## Green Silicon Carbide - 0.7 µm

High Purity Submicron 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, BY 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.

### APPLICATIONS:

Green Silicon Carbide 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 Physical Properties

Hardness	Melting Point	Specific Gravity	Particle Density	Surface Area
2,600 Knoop 9.4 Mohs	Sublimes at 2,600°C	3.184 g/cc	3.1 - 3.2 g/cc	BET 13.5 - 18.5 m <sup>2</sup> /g

### Chemical Analysis by XRF (%)

SiC	98.5 min.
Free C	2.0 max.
O	1.1 max.
N	0.25 max.
Si	0.63 max.
Fe	800 ppm max. / 300 ppm typical
Ca	200 ppm max. / 10 ppm typical
Mo	200 ppm max. / 50 ppm typical
Al	550 ppm max. / 150 ppm typical
Zr	50 ppm max. / 12 ppm typical

### Typical Particle Sizing (HORIBA)

D90	1,811 microns
D50	0,748 microns
D10	0,334 microns