



## GREEN SILICON CARBIDE - 0.7 $\mu\text{M}$

### 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, 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.

#### **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	98.50% min.
Free C	2.00% max.
O	1.10% 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 PHYSICAL PROPERTIES	
Hardness:	Knoop: 2600 Mohs: 9.4
Melting Point:	Sublimes at 2600°C
Specific Gravity:	3.184 g/cc
Particle Density:	3.1 - 3.2 g/cc
Surface Area:	BET 13.5 - 18.5 m <sup>2</sup> /g

TYPICAL PARTICLE SIZING (HORIBA)	
D90	1.811 microns
D50	0.748 microns
D10	0.334 microns



701 Willet Road, Buffalo, NY 14218  
 Phone: 716-822-2500  
[info@electroabrasives.com](mailto:info@electroabrasives.com)  
[www.electroabrasives.com](http://www.electroabrasives.com)



600 Steel Street, Aliquippa, PA 15001  
 Phone: 800-927-8823  
[www.usminerals.com](http://www.usminerals.com)



GRUPO CURIMBABA

Updated: 05/13

The information contained in this data sheet has been determined through the application of accepted engineering practice and is believed to be reliable. Since the conditions of application and use of our products are beyond our control, no warranty is expressed or implied regarding accuracy of the information, the results to be obtained from use of the product, or that such use will not infringe on any patent. This information is furnished with the express condition that you will make your own tests to determine the suitability of the product for your particular use.