

Electrocarb Black Silicon Carbide

#1 Grade Silicon Carbide for Abrasive Applications

Electro Abrasives, LLC. manufactures Black Silicon Carbide grains & powders in sizes to meet all of our customers' needs. It is manufactured by a team of professionals dedicated to provide our customers the best in quality, service and support.

ABOUT:

Eletrocarb Black Silicon Carbide (SiC) is an extremely hard (Mohs 9.1 / 2,550 Knoop) man made mineral that possesses high thermal conductivity and high strength at elevated temperatures (at $1,000^{\circ}$ C, SiC is 7.5 times stronger than Al_2O_3). SiC has a modulus of elasticity of 410 Gpa, with no decrease in strength up to $1,600^{\circ}$ C, and it does not melt at normal pressures but instead dissociates at $2,600^{\circ}$ C.

APPLICATIONS:

Eletrocarb Black Silicon Carbide contains some free silicon (Si) and carbon (C) and is not as pure as green SiC. It is ideal for a wide variety of applications including vitrified and resinoid grinding wheels, friction, blasting, compounds, lapping, polishing, non-slip, wiresawing silicon & quartz, and many more.

Typical Physical Properties

Hardness	Melting Point	Particle Shape	Color
2,550 Knoop 9.1 Mohs	Sublimes at 4,712°F (2,600°C)	Blocky, with sharp edges or Angular, with sharp edges (»P»)	Black

Chemical Analysis (%)

SiC	SiO ₂	Si	Fe	Al	С
97.7	0.7	0.8	0.2	0.3	0.3

Available Split Sizes

;	SPLIT SIZES
46/70, 54/70, 60/90, 100/	/120, 120/220, 150/220,180/240, 800/F

Available Single Grit Sizes

MACRO	MICRO		
8 grit - 240 grit (ANSI);	F280 grit - F1200 grit (FEPA);		
P12 - P220 (FEPA)	P240 - P3000 (FEPA)		

^{*} Other grit sizes upon request.

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.

