

Electrocarb Black Silicon Carbide

#1 Grade Silicon Carbide for Refractory and Ceramics 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:

Electrocarb 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°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 1,600°C, and it does not melt at normal pressures but instead dissociates at 2,600°C.

APPLICATIONS:

Electrocarb 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	Black

Chemical Analysis (%)

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

Available Split Sizes

SPLIT SIZES
4/8, 6/10, 6/8, 8/16, 16/35, 35/70, 100/F, 200/F, 800/F

* Other grit sizes upon request.

Available Single Grit Sizes

SINGLE GRIT SIZES
36 grit (ASTM); 8 grit - 240 grit (ANSI); 280 grit - 1200 grit (FEPA)

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