

## C.R. Fines - Black Silicon Carbide

### Silicon Carbide Dust Collector Fines for Refractory & Other 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 quality.

#### 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 Al<sub>2</sub>O<sub>3</sub>). 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:

C.R. Fines Black Silicon Carbide DCF is collected from the dust collector systems connected to the crushing and grading systems of our #1 grade silicon carbide. It is ideal for general refractory applications.

### Typical Physical Properties

Hardness	Melting Point	Color
2,550 Knoop 9.1 Mohs	Sublimes at 4,712°F (2,600°C)	Black

### Chemical Analysis (%)

SiC	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	Free Si	Free C
90.7	4.9	2.1	0.7	0.3	0.2

### Grading Specification

Grit Size
+325 mesh: 0 - 35%
-325 mesh: 65 - 100%

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