



# C.R. FINES - BLACK SILICON CARBIDE DCF

## 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 support.

### **ABOUT:**

Black Silicon Carbide (SiC) is an extremely hard (Mohs 9.1 / 2550 Knoop) man made mineral that possesses high thermal conductivity and high strength at elevated temperatures (at 1000°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 1600°C, and it does not melt at normal pressures but instead dissociates at 2600°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.

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

<b>TYPICAL PHYSICAL PROPERTIES</b>	
Hardness:	Knoop: 2550
	Mohs: 9.1
Melting Point:	Sublimes at 4712°F (2600°C)
Color:	Black

### **GRADING SPECIFICATION**

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



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Updated: 04/13

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