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**TYPICAL PROPERTIES OF ELECTROCARB  
REGULAR BLACK SILICON CARBIDE**

**DESCRIPTION:** A premium grade medium density, high intensity  
Magnetically treated silicon carbide grain.

**PROPERTIES:** Alpha Silicon Carbide, which crystallizes as modifications  
Of the hexagonal system.

**TYPICAL CHEMICAL ANALYSIS**

Sic	98.5%
SiO <sub>2</sub>	0.5%
Si	0.3%
Fe	0.1%
Al	0.15%
Mn	0.15%
Free C	0.3%

**BALL MILL TOUGHNESS:** On crude Sic, 55 minimum . Finished products are much higher but are  
not tested on a routine basis

**APPARENT SPECIFIC GRAVITY** Coarse sizes 3.20. # 500 grit 3.184 gm/cc pycnometer method.

**HARDNESS 100 gm**

**(KNOOP SCALE):** 2850

**MELTING POINT:** Sublimes (decomposes) at approximately 2600 deg C.

**PARTICLE SHAPE:** Blocky Sharp.

**SIZES** # 8 - # 1600

**APPLICATIONS:** General purpose polishing, lapping, blasting,  
compounds, vitrified and resinoid wheels, primarily for  
grinding and finishing non ferrous and non metallic  
materials.

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