TECHNICAL DATA SHEET

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RockRidge Black Silicon Carbide

Description: RockRidge Silicon Carbide is produced at a high temperature in an electrical resistance arc furnace with quartz and petroleum coke as it primary raw materials. The final product is sharp and friable with outstanding electrical and thermal conductivity properties.

Applications: Black Silicon Carbide is used for pressure blasting, lapping, bonded and coated applications, refractory materials, and precision ceramics.

Test Methods

Sizing:

FEPA F Standard 42-1:2006
FEPA P Standard 43-1:2006
ANSI B74.12-2003
ANSI B74.4-1992 (R2002)

Typical Chemical Analysis:

Mineral	%
Silicon Carbide (SiC)	97.95 %
Free Silicon (Si)	0.48 %
Free Silicon Dioxde (SiO^2)	0.55 %
Free Carbon (C)	0.29 %
Iron (Fe)	0.09 %
Aluminum (Al)	0.10 %
Other	0.54 %

Physical Characteristics:

Mineral	%
Crystal Form	Hexagonal (Alpha SiC)
True Density	3.21 g/cm^3
Melting Point	Dissociates at ~2500 C
Hardness	Knoop (100)-2500 Mohs 9.0+

For any questions or concerns, please contact
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