



TECHNICAL DATA SHEET

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RockRidge Green Silicon Carbide

Description: RockRidge Green Silicon Carbide is a high purity silicon carbide produced in an electrical resistance arc furnace with high purity quartz and coke as its primary raw materials. The final product produces a harder, sharper, and more friable crystal than Black Silicon Carbide.

Applications: Green Silicon Carbide is used for grinding hard alloys where cool cutting is of utmost importance. It is also commonly used in ceramic and refractory materials, and electrical applications.

Test Methods

Sizing:

FEPA F Standard 42-1:2006

ANSI B74.12-2003

Typical Chemical Analysis:

Mineral	%
Silicon Carbide (SiC)	99.08 %
Free Silicon (Si)	0.15 %
Free Silicon Dioxide (SiO ₂)	0.54 %
Free Carbon (C)	0.10 %
Iron (Fe)	0.11 %
Other	0.02 %

Physical Characteristics:

Mineral	%
Crystal Form	Hexagonal (Alpha SiC)
True Density	3.21 g/cm ³
Melting Point	Dissociates at ~2800 C
Hardness	Knoop (100)-2600 Mohs 9.4

For any questions or concerns, please contact RockRidge Abrasives at:
855-883-6245 or sales@rockridgeabrasives.com