

BLACK SILICON CARBIDE ABRASIVE (SIC)

Quality Grade: Export First-Class A1 | Compliance: FEPA 42-1:2006 / JIS R6001 / ISO 8486

1. TYPICAL CHEMICAL COMPOSITION (%)

Element	SiC	Free Carbon (F.C.)	Fe2O3
A Grade (Abrasive)	· 98.0 - 98.5 %	· 0.25 %	· 0.35 %
Metallurgical Grade	88.0 - 92.0 %	· 2.0 %	· 1.50 %

2. PHYSICAL & MECHANICAL PROPERTIES

Property	True Density	Bulk Density	Mohs Hardness	Sublimation Point
Specification	· 3.20 g/cm³	1.40 - 1.58 g/cm³	9.2	2700 °C (4892 °F)

3. AVAILABLE SIZES & GRIT CLASSIFICATION

- FEPA F-Grits: F12 to F220.
- FEPA P-Grits: P16 to P220 for silicon carbide abrasive paper.
- Micro Powders: F240 to F1200 / 0-1mm, 1-3mm, -200 mesh, -325 mesh refractory powder.

4. PRIMARY INDUSTRIAL APPLICATIONS

- Grinding and polishing non-ferrous metals (copper, brass, bronze, aluminum), cast iron, and carbide tools.
- Stone, granite, marble, glass, ceramic, and quartz surface processing.
- Refractory kiln furniture, saggers, muffles, and high-conductivity heat exchanger components.
- Metallurgical deoxidizer in steelmaking furnaces and iron foundries.

5. PACKAGING, CERTIFICATION & EXPORT LOGISTICS

- 25 kg woven PP bags with internal PE liner, palletized.
- 1000 kg ton bags with reinforced lifting loops.
- Complete batch Certificate of Analysis provided with every lot.

MANUFACTURER QUALITY STATEMENT & EXPORT GUARANTEE:

Every batch undergoes rigorous XRF chemical analysis, bulk density and laser particle sizing before dispatch.

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QC APPROVED

ISO 9001:2015