

GRAYSTAR LLC

A Manufacturer and Distributor of
Abrasive Materials and Specialty Products

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Technical Data Sheet

Product: Black Silicon Carbide – Coated Abrasives (Macrogrits & Microgrits)

Description: Black Silicon Carbide is produced in electrical resistance furnaces from high purity silica sand and petroleum coke. Its combination of being very hard and sharp makes it a very aggressive abrasive ideal for coated abrasive applications.

Applications: Coated Abrasive materials can be used for the polishing, finishing or stock removal from wood, metal, ceramics, plastics, rubber, stone and other materials.

Typical Chemical Analysis:

Silicon Carbide (SiC)	97.80%
Free Silicon (Si)	0.65%
Free Silica (SiO ₂)	0.59%
Iron (Fe)	0.12%
Free Carbon (C)	0.29%
Others (CaO, MgO, etc.)	0.55%

Physical Characteristics:

Crystal Form: Hexagonal (Alpha SiC)
True Density: 3.21 g/cm³
Hardness: Knoop (100) 2500 kg/mm², Mohs 9.0+
Melting Point: SiC does not melt but dissociates at approx. 2300C
Color: Black-Gray

Macrogrit & Microgrit Sizing:

Macrogrit Sizes P12 to P220: Certified to FEPA P Standard 43-1: 2006
Microgrit Sizes P280 to P2500: Certified to FEPA P Standard 43-2: 2006 (JIS Standard also available)

ANSI Test Methods:

Chemistry: ANSI B74.15
Bulk Density: ANSI B74.4

Packaging & Shipping:

Warehousing in Bluffton, SC and Niagara Falls, NY
300 lb. fiber drums
2200 lb. supersacks
Plastic pails, etc. for a surcharge (SC only)