GRAYSTAR LLC

A Manufacturer and Distributor of **Abrasive Materials and Specialty Products**

Headquarters 9 Simmonsville Rd PO Box 1670 Bluffton, SC 29910

Phone: 843-815-5600 Fax: 843-815-5601 www.graystarllc.com

BD

1.46 - 1.58

1.45 - 1.57

1.44 - 1.56

90 1.43 - 1.55

100 1.42 - 1.54

120 1.41 - 1.53

150 1.39 - 1.51

180 1.37 - 1.51

220 1.35 - 1.47

240 1.35 - 1.47

70

80

Technical Data Sheet

Product: Black Silicon Carbide – Bonded Abrasives and General Industrial (including **Pressure Blasting**)

Description: Black Silicon Carbide is produced in electrical internal 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 many applications.

Applications: Black SiC is typically used on hard or brittle materials. It is also used for kiln furniture, lapping and polishing, non-woven, tumbling, pressure blasting, anti-skid, electrical heating elements, aerospace, composites, etc.

T 1	C1	1 . 4 1	l
1 ypicai	Chemica	u Anai	vsis:

1 ypicai Chemicai i mai ysis:	
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%

Physical Characteristics:

Crystal Form: Hexagonal (Alpha SiC) 3.21 g/cm^3 True Density:

Hardness: Knoop (100) 2500 kg/mm, Mohs 9.2 Melting Point: SiC does not melt but dissociates

Color: Black

Certifications Available:

Bulk Density (g/cm³):

ANSI FEPA

<u>G</u>rit

BD

1.42 - 1.54

 $10 \quad 1.42 - 1.54$

 $12 \quad 1.45 - 1.57$

 $14 \quad 1.46 - 1.58$

 $16 \quad 1.47 - 1.59$

 $20 \quad 1.50 - 1.62$

24 1.50 - 1.62

30 1.50 - 1.62

36 1.49 - 1.61

46 1.49 - 1.61

54 1.47 - 1.59

Agency and Mil-specs

ANSI Test Methods:

Chemistry: B74.15 Sizing: B74.12

Bulk Density: B74.4

Packaging & Shipping:

Warehousing in Bluffton, SC and Niagara Falls, NY 50 lb. or 55 lb. paper bags 300 lb. fiber drums (grade sizes 8 - 240)

2000 lb. supersacks

Plastic pails, etc. for a surcharge (SC only)