

SALEM Carbosil Silicon Carbide

DESCRIPTION

SALEM Carbosil is a black, semi-friable, medium density, virgin silicon carbide abrasive.

APPLICATIONS

SALEM Carbosil is used primarily for gear lapping, flat lapping of metals and ceramics, glass grinding, and granite polishing.

TYPICAL PHYSICAL PROPERTIES

Crystallography Alpha silicon carbide in a hexagonal crystal

Color:	Black
Specific Gravity:	3.20
Knoop ₁₀₀ Hardness:	2450
Shape:	Blocky, with sharp edges
Ball Mill Friability:	64 (14 grit)
Grading (Grain):	ANSI B74.12-1992, Table 2 OR FEPA 42-GB-1984 (R1993)
Grading (Powder):	ANSI B74.10-1977 (R1988) OR FEPA 42-GB-1984 (R1993)
Bulk Density (Grain):	ANSI B74.4-1977 (R1992)

TYPICAL BULK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
6	1.48	16	1.56	36	1.53	70	1.48	120	1.43
8	1.49	20	1.55	46	1.52	80	1.46	150	1.41
10	1.50	24	1.54	54	1.51	90	1.45	180	1.39
12	1.55	30	1.53	60	1.49	100	1.44	220	1.38
14	1.55								

GRAIN SIZES AVAILABLE

6, 8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220, and 240

POWDER SIZES AVAILABLE

240, 280, 320, 360, 400, 500, 600, 800, 1000, 1200, F, FF, and FFF

TYPICAL CHEMICAL ANALYSIS

SiC 97.80%

SiO₂ 0.60

Si 0.80

Fe 0.20

Al 0.30

C 0.30



SALEM
Advanced Surfacing Materials

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