

# 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 <sub>100</sub> 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%

SiO<sub>2</sub> 0.60

Si 0.80

Fe 0.20

Al 0.30

C 0.30



**SALEM**  
Advanced Surfacing Materials

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