

SILICON CARBIDE MACRO FOR COATED ABRASIVES

1 DESCRIPTION

Black, low-density, semi-friable abrasive powder. Characterized by Mohs hardness of 9.2, thermal resistance, and resistance to oxidation.

2 APPLICATIONS

The particle shape and density are specifically engineered for coated abrasive applications, and this grain can be applied to paper, cloth, or polyester films with rubber or adhesive resins.



3 TYPICAL CHEMISTRY

SiC	97.60%
SiO ₂	0.60%
Si	0.80%
Fe ₂ O ₃	0.20%
Al ₂ O ₃	0.30%
C	0.50%

4 PHYSICAL PROPERTIES

Crystalline Structure	Alpha in the hexagonal and rhombohedral class
Knoop Hardness	2,480
Mohs Hardness	9.2
Specific Gravity	3.20 gr/cm ³
Particle Shape	Angular with Sharp Edges

5 SPECIFICATIONS / NORMS

ANSI	B74.18.2006
	FEPA 43-1:2006
Density:	FEPA 44-1:2006
	ANSI B74.4 Rev 2007

6 SIZES & DENSITIES

FEPA	Densities		ANSI	Densities	
	Min	Max		Min	Max
P-12	1.50	1.63	G-12	1.48	1.58
P-14	1.50	1.63	G-14	1.48	1.58
P-16	1.50	1.63	G-16	1.48	1.58
P-20	1.50	1.63	G-20	1.48	1.58
P-24	1.50	1.63	G-24	1.48	1.65
P-30	1.51	1.68	G-30	1.45	1.55
P-36	1.50	1.64	G-36	1.45	1.64
P-40	1.49	1.64	G-40	1.45	1.60
P-50	1.48	1.64	G-46	1.55	1.65
P-60	1.47	1.64	G-54	1.51	1.61
P-80	1.44	1.56	G-60	1.43	1.54
P-100	1.41	1.55	G-80	1.43	1.54
P-120	1.37	1.54	G-100	1.41	1.50
P-150	1.36	1.53	G-120	1.38	1.47
P-180	1.35	1.53	G-150	1.36	1.48
P-220	1.32	1.52	G-180	1.35	1.46
			G-220	1.35	1.45

7 PACKAGING

25 kg paper bags, 250 kgs Minibags and 1 Metric Ton Super Sacks on wood pallets with stretchable wrap.

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