



CUMI SHARP



BLACK SILICON CARBIDE MICRO FOR COATED APPLICATION

Black Silicon Carbide (SiC) is an extremely hard man made mineral that possesses high thermal conductivity (100 W/m -K). It also has high strength at elevated temperatures (at 1000°C, SiC is 7.5 times stronger than Al₂O₃). SiC has a modulus of elasticity of 410 GPa, with no decrease in strength up to 1600°C and it does not melt at normal pressures but instead dissociates at 2600°C.

APPLICATION

CUMI SHARP Black Silicon Carbide coated grits, due to its sharp, angular and low density nature finds wide applications in coated abrasives.

GRAIN SIZES AVAILABLE

P240, P280, P320, P360, P400, P500, P600, P800, P1000, P1500, P2000 and P2500 as per FEPA (Federation of European Producers of Abrasives) standard 42-2:2006.

TYPICAL PROPERTIES

Physical Properties		
Property	Unit	Value
Hardness	Mohs Scale	9.5
Hardness	Knoop Scale (Kg/mm ²)	2500
Specific gravity		3.2

Chemical composition			
Constituent	P240	P800	P1500
SiC	98.50 %	98.20 %	97.50 %
Free C	0.15 %	0.20 %	0.40 %
Si+SiO ₂	0.85 %	1.10 %	1.50 %
Fe ₂ O ₃	0.13 %	0.14 %	0.16 %

Packing: 25 kg multiply paper bags of 1000 kg palletized. Other packaging types on request

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Alumina Plant:-
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SiC Plant:-
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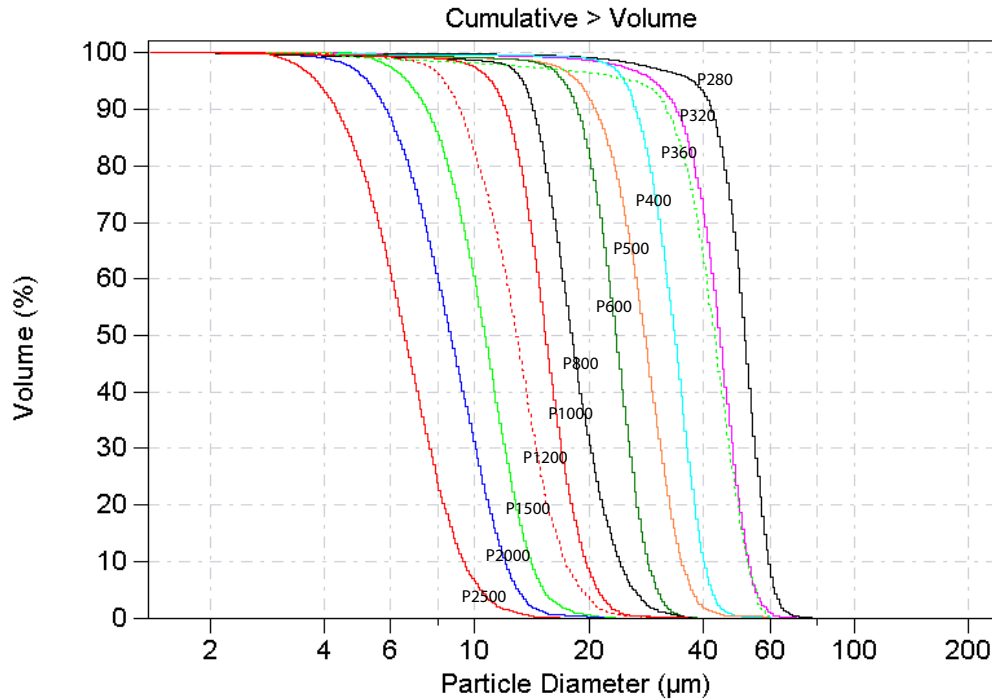
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Size Distribution (As per FEPA standard 42-2:2006)



Size specification (as analyzed on Coulter Multisizer-III)

Grit	D0	D3	D50 (Lower)	D50 (Upper)	D95
P240	129	79.9	53.6	57.8	38.5
P280	112.8	71.1	47.1	51.2	33.7
P320	100.3	62.9	41.4	44.5	29.2
P360	87.7	55.5	35.5	38.6	25
P400	77	48.2	29.8	32.9	21
P500	69.8	41.8	24.8	27.9	17.7
P600	60.9	35.7	20.8	22.8	14.5
P800	51.9	30.1	16.6	18.7	11.9
P1000	44.7	25.1	13	15.1	9.5
P1200	35.8	20.6	9.9	12	7.4
P1500	30	17.1	9.1	10.8	6
P2000	25	13.9	7.3	8.7	5.1
P2500	22	10.9	6	6.8	3.7

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