

TECHNICAL DATA SHEET

BLACK SiC

Black SiC is produced in electrical internal resistance furnaces from high purity silica sands petroleum coke, its combination of being very hard and sharp makes it a very aggressive abrasive

PHYSICAL PROPERTIES

Specific Weight	3.95 g/ cm ³
Mohs Hardness	9.15
Maximum service temperature	1900°C
Melting Point	2250°C



1, Used for abrasives, blasting, grinding, ceramic, rust removal, surface treatment, floor coating, abrasion resistant layer etc

TYPICAL CHEMICAL ANALYSIS [%]

SiC	Fe ₂ O ₃	F.C	F.Si	SiO ₂	LOI
≥99.0	≤0.10	≤0.20	≤0.20	≤0.50	< 0.05

PARTICLE SIZE DISTRIBUTION

F8	+4000um	0	+2800um	≤20%	+2360um	≥45%	+2360+2000um	≥70%	-1700um	≤3%
F10	+3350um	0	+2360um	≤20%	+2000um	≥45%	+2000+1700um	≥70%	-1400um	≤3%
F12	+2800um	0	+2000um	≤20%	+1700um	≥45%	+1700+1400um	≥70%	-1180um	≤3%
F14	+2360um	0	+1700um	≤20%	+1400um	≥45%	+1400+1180um	≥70%	-1000um	≤3%
F16	+2000um	0	+1400um	≤20%	+1180um	≥45%	+1180+1000um	≥70%	-850um	≤3%
F20	+1700um	0	+1180um	≤20%	+1000um	≥45%	+1000+850um	≥70%	-710um	≤3%
F22	+1400um	0	+1000um	≤20%	+850um	≥45%	+850+710um	≥70%	-600um	≤3%
F24	+1180um	0	+850um	≤25%	+710um	≥45%	+710+600um	≥65%	-500um	≤3%
F30	+1000um	0	+710um	≤25%	+600um	≥45%	+600+500um	≥65%	-425um	≤3%
F36	+850um	0	+600um	≤25%	+500um	≥45%	+500+425um	≥65%	-355um	≤3%
F46	+600um	0	+425um	≤30%	+355um	≥40%	355+300um	≥65%	-250um	≤3%
F54	+500um	0	+355um	≤30%	+300um	≥40%	+300+250um	≥65%	-212um	≤3%
F60	+425um	0	+300um	≤30%	+250um	≥40%	250+212um	≥65%	-180um	≤3%
F70	+355um	0	+250um	≤25%	+212um	≥40%	+212+180um	≥65%	-150um	≤3%
F80	+300um	0	+212um	≤25%	+180um	≥40%	+180+150um	≥65%	-125um	≤3%
F90	+250um	0	+180um	≤20%	+150um	≥40%	+150+125um	≥65%	-106um	≤3%



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F100	+212um	0	+150um	≤20%	+125um	≥40%	+125+106um	≥65%	-75um	≤3%
F120	+180um	0	+125um	≤20%	≥40%	≥40%	+106+90um	≥65%	-63um	≤3%
F150	+150um	0	+106um	≤15%	+75um	≥40%	+75+63um	≥65%	-45um	≤3%
F180	+125um	0	+90um	≤15%	+75um	*	+75+63um	≥40%	-53um	*
F220	+106um	0	+75um	≤15%	+63um	*	+63+53um	≥40%	-45um	*



2.Used for Grinding, polishing, lapping, whetstone, polishing pads, ceramic membrane etc

TYPICAL CHEMICAL ANALYSIS [%]

SIC	Fe ₂ O ₃	F.C	F.Si	SiO ₂	LOI
98.0-99.5	≤0.15	≤0.30	≤0.40	≤0.70	< 0.09

PARTICLE SIZE DISTRIBUTION

HAPTER I (JIS STANDARD)

Size	D ₀ (um)	D ₃ (um)	D ₅₀ (um)	D ₉₄ (um)
#240	≤127	≤103	57.0±3.0	≥40
#280	≤112	≤87	48.0±3.0	≥33
#320	≤98	≤74	40.0±2.5	≥27
#360	≤86	≤66	35.0±2.0	≥23
#400	≤75	≤58	30.0±2.0	≥20
#500	≤63	≤50	25.0±2.0	≥16
#600	≤53	≤41	20.0±1.5	≥13
#700	≤45	≤37	17.0±1.5	≥11
#800	≤38	≤31	14.0±1.0	≥9.0
#1000	≤32	≤27	11.5±1.0	≥7.0
#1200	≤27	≤23	9.5±0.8	≥5.5
#1500	≤23	≤20	8.0±0.6	≥4.5
#2000	≤19	≤17	6.7±0.6	≥4.0
#2500	≤16	≤14	5.5±0.5	≥3.0
#3000	≤13	≤11	4.0±0.5	≥2.0
#4000	≤11	≤8.0	3.0±0.4	≥1.8
#6000	≤8.0	≤5.0	2.0±0.4	≥0.8
#8000	≤6.0	≤3.5	1.2±0.3	≥0.6

CHAPTER II (FEPA STANDARD)

Size	D ₃ (um)	D ₅₀ (um)	D ₉₄ (um)
F230	< 82	53.0±3.0	>34
F240	< 70	44.5±2.0	>28

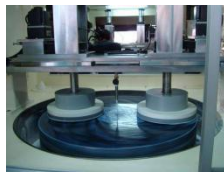


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F280	< 59	36.5±1.5	>22
F320	< 49	29.2±1.5	>16.5
F360	< 40	22.8±1.5	>12
F400	< 32	17.3±1.0	>8
F500	< 25	12.8±1.0	>5
F600	< 19	9.3±1.0	>3
F800	< 14	6.5±1.0	>2
F1000	< 10	4.5±0.8	>1
F1200	< 7	3.0±0.5	>1(at 80%)
F1500	< 5	2.0±0.4	>0.8(at 80%)
F2000	< 3.5	1.2±0.3	>0.5(at 80%)

Mainly Applications

- Bonded Abrasives and Coated abrasives
- Blasting,surface Treatment,Rust Removal
- Wet and dry blast media,grinding and polishing etc
- Floor/Wall laminates,Wear-resistant
- Ceramic products: Ceramic and Tiles,Ceramic filter plate,ceramic membrane etc
- Teflon painting etc
- Heat insulating material
- Grinding wheels,Cup wheels,Whetstone,polishing pads etc
- Used for crucibles, parts for kiln burning, mechanical seals, and parts materials to produce semiconductors



PACKAGING

