

HUANGHE MINERALS CO.,LIMITED		Version: 2006
PRODUCTS SPECIFICATION		Code: M/P/T/QA
Product	Silicon carbide /Boron carbide	Origin: China / NX-LZ-LN

Code	SIC Black refractory grade				SIC black Metallurgical grade		Boron carbide	
	SIC 98	SIC 97	SIC95	SIC92	SIC88	SIC75	B4C	
Chemical property								
SIC	98.5	97.5	95.5	92.5	88-90	75	B4C	96-98
FE2O3	0.25	0.3	0.5	1.5	2-3	2-5	Fe2O3	0.2-0.4
F.C	0.25	0.3	0.5	1.5	2-4	5-8	SI	0.2-0.4
Si+SiO2	0.7	0.8	1	3	4	10-13		
Al2O3	0.2	0.2	0.3	1			C	17-19
Magnetic	0..05	0.04	0.08	0.10			B	77-80
Physical property								
AP	6-9%				<ul style="list-style-type: none">0-10mm1-10mm1-5mm			
Density	3.2g/cc						2.52g/cc	
Water absorbs	2-4%						Black	
PH value	7.2							
Hardness	9.3 Moh						9.5	
Appearance	Hexagon crystal						2.52g/cc	
Decomp temp	2750C						2450 Melting point	
Service temp	1620C in air							
Size	1. grains like 0-1/1-3/3-5mm, 8x10M, 10x18M,18x35M,35x70M, -18F,-35F ISO, DIN, JIS, ASTM 2. Raymond milled powder -200mesh, -300mesh 3. 1200F super fine materials is available 4. Fepa abrasive grade for boned F8-220 and coated P12-220 abrasives							
Pack	In 1mt bags / 25kg bags in big bag / 25kg bags on pallets shrink-wrapped							
Application	* Green silicon carbide is widely used for coated and boned abrasives with delicate processing. * Black silicon carbide 98,97 can be used both for abrasive application and refractory application. * Black silica carbide 90 or lower are mainly used for refractory, metallurgical, foundry application. * B4C resist higher temperature, chemical stable, anti-acid, higher hardness, light weight, absorb neutrons, lower thermal conductivity which used for abrasive and refractories, bullet-proof ceramics, nozzles...							
Description	Mixture of quartz and coal or Petro-coke, reacted in Acheson furnaces in 2500C to form beta sic in 1400C and recrystallized tol alpha sic in 1800C, Its high refractoriness, hardness, thermal conduct, lower thermal expansion, high thermal shock resistance. Are valuable elements for refractory and ceramics				B4C are made from high pure boric acid and carbon powder in high temperature electric furnaces, <ul style="list-style-type: none">High hardness 9.6 MohsLight weightNeutron absorption (nuclear power plant cement)Bullet proof / Engineer CeramicsAnti-oxidation for refractory iron trough			

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