

BLACK SILICON CARBIDE

Product Information



SIC used for Refractories Application

Black Silicon Carbide is mainly made from high purity silica sand, Petroleum Coke as the main raw materials and smelted by electric resistance furnace at high temperature..

Black SIC is excellent for high-temperature Applications: It has high hardness and high strength, low thermal expansion rate, good chemical stability, outstanding electrical and thermal conductivity, so is widely used in manufacturing shaped and Unshaped Refractories, Refractory Bricks, Special Ceramic Products, Precision Casting, SIC plate and Crucibles, kiln furniture, high-temperature furnaces lining & components, torpedo ladle, metal Foundries and Metallurgical.



Physical Properties

Crystal Form	:	Alpha SiC
Particle Shape	:	Blocky, sharp edged
Color	:	Black
Friability	:	Semi-friable
Melting Point	:	Dissociates at Approx. 2500°C
Bulk Density	:	1.20-1.60g/cm ³
True Density	:	3.20g/cm ³ Min
Mohs Hardness	:	9.1
Knoop Hardness	:	2550kg/mm ²

Chemical Composition

Item	Type & Grade	Chemical Composition (% , by weight)		
		SiC	F.C	Fe2O3
C--R	SIC 97	≥97.0	≤0.30	≤0.40
	SIC 95	≥95.0	≤0.60	≤0.80
	SIC 90	≥90.0	≤2.50	≤2.50
	SIC 88	≥88.0	≤3.00	≤3.00

Available Grit Sizes

We offer segment sizes, group sizes or powder in accordance with the current FEPA / JIS / ANSI sieve standards.

For Refractories Application:

Macro sizes : 0-1mm,0.5-1 mm,1-2mm, 1-3mm, 2-3mm, 3-5mm, 5-8mm, 0-10mm,0-25mm...

Fine powder: -200mesh, -325mesh..

Noted :Custom sizes and shapes are also available upon request.

Packaging

Standard Packaging:

- Big bags(1000kgs , 1250kgs, 1350kgs.) with or without pallets;

- 20 or 25kg plastic.or paper bags, with or without pallets.

*Custom Packaging is available upon request.



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