





Black Silicon Carbide

Black Silicon Carbide is mainly made from quartz sand, petroleum coke as the main raw materials and smelted by electric resistance furnace at high temperature. After procedure of lump crushing by ball mill, magnetic separation to remove iron, Finally we apply acid and water to wash it aim to ensure abrasive superior quality and cleaner surface.



Company Profile

SANHUI ABASIVES Co.,Ltd. was founded in 2005, with two manufacturing plants located in Jiaozuo, Henan Province, Qinyang, respectively which workshop covers more than 15000 square meters.

The company specializes in producing Black Silicon Carbide, Green Silicon Carbide, Brown Fused Alumina, White Fused Alumina, Chrome (Pink) Fused Alumina, macro grits and micro powder, finishing more than 20000 tons of abrasive granular sand annually.

The company is committed to the research, innovation, engineering applications of high-quality abrasives for customers around the world, with advanced air-jet mill, pickling, pure water fine rinsing technology, our abrasives are widely used in coated and bonded abrasive tools, carbon brushes, foam ceramics, honeycomb ceramics, ternary catalyst industrial ceramics, wear-resistant pipes, impellers, pump chambers, cyclones, mine hopper liners, silicon carbide semiconductor, sandblasting and other fields.

The company has independent intellectual property rights of core materials, aligning with the latest technology and materials, we are thriving and keep going forward together with our customers.

Company Culture

Localization: The world's leading manufacturer of abrasives.

Concepts: Integrity Quality Pragmatism Innovation

Goal: Internationalization, Branding, Specialization

Mission: Achievement of customers, Achievement brand, Achievement of employees

Corporate Philosophy

Corporate Philosophy

Integrity creates quality, Innovation leads to the future

Product parameters

Mohs hardness	Specific gravity	Maximum operating temperature	Melting point
9.5	≥3.90g/cm ³	1900°C	2250°C

SiC	Fe ₂ O ₃	F.C
98.0-99.2%	≤0.15%	≤0.20%

Green Silicon Carbide

Green silicon carbide manufacturing method is the same as black silicon carbide, but require higher purity raw materials, green, translucent, hexagonal crystals formed at a high temperature of 2200°C in the resistance furnace, has the similarity physical properties as black silicon carbide and good toughness make it the best choice for high-grade refractory materials; It also posses good thermal conductivity and semiconductor properties; After lump crushing by ball mill, magnetic separation to remove iron, we apply acid and water washing to clean materials aiming to ensure higher purity and good quality abrasives.



Product parameters

Mohs hardness	Specific gravity	Maximum operating temperature	Melting point
9.5	≥3.90g/cm ³	1900°C	2250°C

SiC	Fe ₂ O ₃	F.C
98.0-99.2%	≤0.15%	≤0.20%

Brown Fused Alumina

Brown Fused Alumina, commonly known as corundum, is made from alumina, carbon, iron scrap mixed raw materials in the electric arc furnace through melting and reduction. which is also named as artificial corundum because of its color of dark brown. Brown corundum main chemical composition is AL₂O₃, content is between 95.00%-97.00%, and contains a small amount of Fe, Si, Ti, etc. Brown corundum is the most basic abrasive, because of its good grinding performance, extensive application, is widely used in a variety of industrial fields.



Product parameters

Color	Deep brown (deep blue after calcination)
Crystal form	Tripartite crystal system
MohsHardness	≥9.0
Melting point (°C)	2250°C
Maximum operating temperature (°C)	1900
True density (g/cm ³)	≥3. 90
Linear expansion coefficient (0—1600 °C)	7—9

Chrome Fused Alumina

Chrome Corundum main content is Aluminium Oxide with appropriate proportion of Chromium Oxide. It is melted at high temperature and form into pink crystal. Its color is pink, hardness is similar to white corundum, toughness is higher than white corundum. The abrasives made with it have good durability and high grinding finish. Suitable for precision grinding of measuring tools, machine spindles, instrument parts, threaded workpieces and template honing and precision grinding etc.



Product parameters

Chemistry		F12 ~ F80	F90 ~ F150	F180 ~ F220
Low Chromium	AL ₂ O ₃	≥98.5%	≥98.5%	≥98.0%
	Cr ₂ O ₃	0.20-0.45%	0.20-0.45%	0.20-0.45%
	NA ₂ O	≤0.50%	≤0.55%	≤0.60%
Medium Chromium	AL ₂ O ₃	≥98.2%	≥98.2%	≥97.8%
	Cr ₂ O ₃	0.45-1.0%	0.45-1.0%	0.45-1.0%
	NA ₂ O	≤0.55%	≤0.60%	≤0.70%
High Chromium	AL ₂ O ₃	≥97.4%	≥97%	≥96.5%
	Cr ₂ O ₃	1.0-2.0%	1.0-2.0%	1.0-2.0%
	NA ₂ O	≤0.55%	≤0.60%	≤0.70%

White Fused Alumina

White Corundum abrasive is a kind of abrasive which is widely used. White corundum is produced from the purity of 99% aluminum oxide powder fused in the arc furnace by 2050 °C and forms into crystal, so white corundum is also known as fused alumina or fused corundum. White corundum abrasive possesses high purity, good self-sharpness, acid and alkali corrosion resistance, high temperature resistance, hot state stability, its hardness is slightly higher than brown corundum, toughness is slightly lower, strong cutting force. White corundum is the main raw material for the production of abrasive products, ceramic filter membrane, refractory, grinding and polishing, sandblasting, rust removal, wear-resistant media, thermal conductive materials and other industries.



Product parameters

Colour	White
Mohs hardness	9
Nup hardness	2000-2200Kg/mm ²
Operating temperature	1900°C
Melting point	2250°C
Proportion	3.95g/cm ³
Bulk density	3.6g/cm ³
Packing density	1.55-1.95g/cm ³
Specific heat	0.26cal/g.°C(20-90°C)
Thermal conductivity coefficient	6.16W/(m·K) (1000°C)
Linear expansion coefficient	8.0 × 10 ⁻⁶ /°C (200-1000°C)
Refractive index	e=1.760w=1.768
Crystal form	Tripartite crystal system



Acid wash tanks

Sieving



2023.04.24 07:59