

ZHENGZHOU HAIXU ABRASIVES CO.,LTD

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HAIXU ABRASIVES

BLACK SILICON CARBIDE P5000

TECHNICAL DATA SHEET

黑碳化硅 P5000#技术参数表

➤ **PRODUCT/产品:** Black Silicon Carbide P5000/黑碳化硅 P5000#

➤ **Physical Index/物理参数:**

Hardness: HV/维氏硬度	2840-3320kg/mm ²
Hardness: Mohs/莫氏硬度	9.2-9.3
Specific Gravity/比重	3.2-3.45 g/cm ³
Particle Shape/颗粒形态	Fine powder/细小粉末
Color/颜色	Black/黑色
Bulk density(LPD)/堆积密度	0.78-0.90 g/cm ³
Crystal shape/晶型	Hexagonal/六方晶型
Melting Point/熔点	dissociated at about 2300° C/2300° C 游离
Maximum service temperature/使用温度上限	1900° C
Thermal conductivity/导热系数	70-130W/M · K
Thermal expansion coefficient/热膨胀系数	3.9-4.5 x10 ⁻⁶ /° C (0-1600° C)

➤ **Chemical Composition/化学成分:**

Chemical Item/化学成分	Guarantee Value/保证值(%)	Typical Value/典型值(%)
SiC/碳化硅	≥98%	98.59
Free C/游离碳	≤0.20	0.17
Fe2O3/三氧化二铁	≤0.10	0.08

➤ **Particle size distribution/粒度分布 (By Laser Analyzer LS609/激光粒度分析仪 LS609):**

Size	Guarantee Value/保证值	Typical Value/典型值
D10(um)	≥1.5	1.796
D50(um)	3.3-4.1	3.738
D90(um)	≤7	6.689

➤ **Applications/用途:**

- Grinding and polishing of stone, marble, ceramic products / 石材大理石陶瓷制品研磨抛光
- Grinding of glass, jade, and gemstone products / 玻璃、玉石、宝石产品研磨
- Grinding and polishing of non-ferrous alloy materials / 非铁类合金材料研磨抛光
- Raw materials for reaction sintered silicon carbide ceramics, high-temperature ceramics, metallurgical ceramics, and other products / 反应烧结碳化硅陶瓷、高温陶瓷、冶金陶瓷等产品的原材料
- Resin binders, ceramic binders, rubber binders, and other bonded abrasives / 树脂结合剂、陶瓷结合剂、橡胶结合剂等固结磨具
- Coated abrasives such as sandpaper and nylon polishing wheels / 砂纸、尼龙抛光轮等涂附磨具
- Wear resistant and anti-corrosion fillers / 耐磨和防腐填料

➤ **Package/包装:**

15 公斤编织袋+吨包 / 15kgs/Bag+1Ton/Jumbo Bag

15 公斤编织袋+1 吨托盘 / 15kgs/Bag+1Ton/Pallet

接受纸袋等定制包装/Customized Packages such as paper bag are available