

ZHENGZHOU HAIXU ABRASIVES CO.,LTD

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HAIXU ABRASIVES

黑碳化硅 F400 技术参数表 BLACK SILICON CARBIDE F400 TECHNICAL DATA SHEET

➤ **PRODUCT/产品:** 黑碳化硅 F400/Black Silicon Carbide F400

➤ **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	1.30-1.38 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	≥ 98.5%	99.1
Free C/ 游离碳	≤ 0.20	0.08
Fe ₂ O ₃ / 三氧化二铁	≤ 0.10	0.05

➤ **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)	≥ 12	14.761
D50(um)	21-25	22.829
D90(um)	≤ 39	34.783

➤ **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:**

25 公斤编织袋+吨包 / 25kgs/Bag+1Ton/Jumbo Bag

25 公斤编织袋+1 吨托盘 / 25kgs/Bag+1Ton/Pallet

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