

ZHENGZHOU HAIXU ABRASIVES CO.,LTD

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HAIXU ABRASIVES

## 黑碳化硅 400#技术参数表 BLACK SILICON CARBIDE 400# TECHNICAL DATA SHEET

➤ **PRODUCT/产品:** Black Silicon Carbide 400#/黑碳化硅 400#

➤ **Physical Index/物理参数:**

|                                      |                                            |
|--------------------------------------|--------------------------------------------|
| Hardness: HV/ 维氏硬度                   | 2840-3320kg/mm <sup>2</sup>                |
| Hardness: Mohs/ 莫氏硬度                 | 9.2-9.3                                    |
| Specific Gravity/ 比重                 | 3.2-3.45 g/cm <sup>3</sup>                 |
| 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              | 1.36-1.46 g/cm <sup>3</sup>                |
| 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 <sup>-6</sup> /° 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%                 | 99.0                  |
| Free C/ 游离碳                            | ≤ 0.20                  | 0.08                  |
| Fe <sub>2</sub> O <sub>3</sub> / 三氧化二铁 | ≤ 0.10                  | 0.06                  |

➤ **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) | ≥ 23                 | 25.598             |
| D50(um) | 37.5-42.5            | 39.714             |
| D90(um) | ≤ 65                 | 58.981             |

➤ **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