

ZHENGZHOU HAIXU ABRASIVES CO.,LTD

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HAIXU ABRASIVES

## BLACK SILICON CARBIDE F500

### TECHNICAL DATA SHEET

### 黑碳化硅 F500 技术参数表

➤ **PRODUCT/产品:** Black Silicon Carbide F500/黑碳化硅 F500

➤ **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              | 1.18-1.25 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%                   | 98.82                |
| Free C/游离碳                            | ≤0.20                  | 0.14                 |
| Fe <sub>2</sub> O <sub>3</sub> /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) | ≥9                  | 10.000            |
| D50(um) | 15-18               | 16.430            |
| D90(um) | ≤26                 | 25.242            |

➤ **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