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HAIXU ABRASIVES

## 黑碳化硅 F46 技术参数表 BLACK SILICON CARBIDE F46 TECHNICAL DATA SHEET

➤ **PRODUCT/产品:** Black Silicon Carbide F46/黑碳化硅 46#

➤ **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              | 1.48-1.60 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%                 | 98.74                 |
| Free C/ 游离碳                            | ≤ 0.20                  | 0.12                  |
| Fe <sub>2</sub> O <sub>3</sub> / 三氧化二铁 | ≤ 0.20                  | 0.11                  |

➤ **Particle Size Distribution / 粒度分布:**

| Grit 粒度           | Mesh# 目数 | Mesh size(um) 目数尺寸 | Weight Standard(%) 重量占比 | Typical Value(%) 典型值 |
|-------------------|----------|--------------------|-------------------------|----------------------|
| Coarsest Grit 最粗粒 | +30      | 600                | 0                       | 0                    |
| Coarse Grit 粗粒    | +40      | 425                | Max. 30                 | 8.4                  |
| Basic Grit 基本粒    | +45      | 355                | Min. 40                 | 52.3                 |
| Mixed Grit 混合粒    | +45 +50  | 355 300            | Min. 65                 | 82.5                 |
| Fine Grit 细粒      | -60      | 250                | Max. 3                  | 0.9                  |

➤ **Applications/用途:**

- Sandblasting, etching, and carving of materials such as stone and marble. / 石材大理石等材料的喷砂、蚀刻、雕刻。
- Surface cleaning and passivation of materials such as stainless steel semiconductor components and alloy steel. / 不锈钢半导体件、合金钢等材料的表面清理钝化。
- Ceramic products and electronic ceramics sandblasting and grinding. / 陶瓷制品、电子陶瓷喷砂研磨。
- Polishing and grinding marble, granite, jade, jadeite, gemstones, etc. / 打磨研磨大理石、花岗岩、玉石、翡翠、宝石等。
- Glass artworks, glass products polishing and grinding, etc. / 玻璃艺术品、玻璃制品抛光研磨等。
- Production of grinding tools such as grinding stones, steel paper sand discs, silicon carbide abrasive brushes, black diamond drawing wheels, sponge grinding blocks, and oilstones. / 生产研磨石、钢纸砂盘、碳化硅磨料刷、黑金刚拉丝轮、海绵磨块、油石等磨具制品。
- Reaction sintered silicon carbide ceramics: silicon carbide ceramic filters, silicon carbide ceramic membrane tubes, silicon carbide wear-resistant products, silicon carbide ceramic water pumps, bent pipes, silicon carbide wear-resistant plates, etc. / 反应烧结碳化硅陶瓷：碳化硅陶瓷过滤器、碳化硅陶瓷膜管、碳化硅耐磨制品、碳化硅陶瓷水泵、弯管、碳化硅耐磨板等。
- Composite materials such as foam glass, modified resin, lubricating oil, anti-corrosion mastic and other materials are added. / 复合材料例如泡沫玻璃、改性树脂、润滑油、防腐胶泥等材料添加。
- Wear resistant products such as brake pads, wear-resistant sandpaper with added materials. 耐磨制品例如刹车片、耐磨砂纸添加材料。
- Refractory materials such as silicon carbide refractory aggregates, metallurgical carbonization materials. / 耐火材料例如碳化硅耐火骨料，冶金增碳材料。

➤ **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