



GREEN SILICON CARBIDE F46

TECHNICAL DATA SHEET

绿碳化硅 F46 技术参数表

➤ **PRODUCT/产品:** Green Silicon Carbide F46/绿碳化硅 46#

➤ **Physical Index/物理参数:**

| | |
|-------------------------------------|---|
| Hardness: HV/维氏硬度 | 3280-3400kg/mm ² |
| Hardness: Mohs/莫氏硬度 | 9.4-9.5 |
| Specific Gravity/比重 | 3.2 g/cm ³ |
| Particle Shape/颗粒形态 | Fine powder/细小粉末 |
| Color/颜色 | Green/绿色 |
| Bulk density(LPD)/堆积密度 | 1.2-1.6 g/cm ³ |
| Crystal shape/晶型 | Hexagonal/六方晶型 |
| Melting Point/熔点 | dissociated at about 2600° C/2600° C 游离 |
| Maximum service temperature/使用温度上限 | 1900° C |
| Thermal conductivity/导热系数 | 0.013 cal/cm ² .sec (900° C) |
| Thermal expansion coefficient/热膨胀系数 | 7-9 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 | ≥99% | 99.37 |
| Free Si/游离硅 | ≤0.30 | 0.12 |
| Free C/游离碳 | ≤0.20 | 0.08 |
| Fe ₂ O ₃ /三氧化二铁 | ≤0.40 | 0.08 |
| SiO ₂ /二氧化硅 | ≤0.30 | 0.16 |

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

| Grit 粒度 | Mesh# | Mesh size(um) | Weight Standard(%) | Typical Value(%) |
|-------------------|---------|---------------|--------------------|------------------|
| Coarsest Grit 最粗粒 | +30 | 600 | 0 | 0 |
| Coarse Grit 粗粒 | +40 | 425 | Max. 30 | 9.5 |
| Basic Grit 基本粒 | +45 | 355 | Min. 40 | 46.8 |
| Mixed Grit 混合粒 | +45 +50 | 355 300 | Min. 65 | 85.4 |
| Fine Grit 细粒 | -60 | 250 | Max. 3 | 1.1 |

➤ **Applications:**

- Hard alloy sandblasting is used to clean hard alloy drill bits, cutting tools, and other products for deburring and edge passivation / 硬质合金喷砂, 用于清理硬质合金钻头、刀具等产品去毛刺和刃口钝化
- Used for sandblasting and deburring of hard metal titanium alloys and copper alloys / 用于硬质金属钛合金、铜质合金喷砂去毛刺
- Raw material for bonded Abrasives/ 固结磨具原材料
- Etching sandblasting of materials such as marble, granite, and artificial marble tiles/ 大理石、花岗岩、人造大理石瓷砖等材料的蚀刻喷砂
- Sandblasting and grinding of ceramic products / 陶瓷制品的喷砂研磨
- Surface treatment of optical glass and quartz glass / 光学玻璃、石英玻璃表面钝化处理
- Surface sandblasting of fine materials such as brittle materials and piezoelectric ceramics/ 脆性材料、压电陶瓷等精细材料表面喷砂
- Grinding and polishing of jadeite and jade materials/ 翡翠、玉石材料研磨抛光
- Raw material for RBSIC ceramics/ 反应烧结碳化硅陶瓷原料

➤ **Package:**

25kgs/Bag+1Ton/Jumbo Bag

25kgs/Bag+1Ton/Pallet