

ZHENGZHOU HAIXU ABRASIVES CO.,LTD

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HAIXU ABRASIVES

GREEN SILICON CARBIDE JIS10000#

TECHNICAL DATA SHEET

绿碳化硅 10000#技术参数表

➤ **PRODUCT/产品:** Green Silicon Carbide JIS10000#/绿碳化硅 10000#

➤ **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 |
| 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 | ≥98% | 98.52 |
| Free Si/游离硅 | ≤0.5 | 0.32 |
| Free C/游离碳 | ≤0.3 | 0.19 |
| Fe ₂ O ₃ /三氧化二铁 | ≤0.15 | 0.08 |
| SiO ₂ /二氧化硅 | ≤0.5 | 0.28 |

➤ **Particle size distribution/粒度分布 (By Laser Analyzer LS609/激光粒度分析仪 LS609):**

| Size 粒径 | Guarantee Value/保证值 | Typical Value/典型值 |
|---------|---------------------|-------------------|
| D10(um) | ≥0.6 | 0.262 |
| D50(um) | 0.7-1.1 | 0.761 |
| D90(um) | ≤2.5 | 2.046 |

➤ **Applications/用途:**

- Grinding and polishing optical glass, piezoelectric ceramics, quartz glass, and electric wood materials. / 研磨抛光光学玻璃、压电陶瓷、石英玻璃、电木材料。
- Raw materials for stone grinding tools such as diamond clay grinding blocks and precision grinding oilstones. / 石材磨具例如菱苦土磨块、精磨油石的原材料。
- Fillers for diamond water grinding discs and resin diamond grinding wheels. / 金刚石水磨片、树脂金刚石砂轮的填料。
- Grinding non-ferrous metal alloys and hard alloys. / 研磨有色金属合金、硬质合金。
- Precision polishing, lapping in silicon wafer industry. / 半导体行业硅片研磨。
- Additives to wear resistant, anti-corrosion, and high-temperature resistant coatings such as fluorocarbon coatings and PTFE non-stick coatings. / 耐磨防腐耐高温涂料例如氟碳涂料、特氟龙不沾涂料的耐磨填料。
- Raw material for RBSIC ceramics. / 反应烧结碳化硅陶瓷原料。
- Heat resistant materials and insulation building materials fillers. / 耐热材料、保温建材填料。

➤ **Package/包装:**

20 公斤编织袋+吨包 / 20kgs/Bag+1Ton/Jumbo Bag

20 公斤编织袋+1 吨托盘 / 20kgs/Bag+1Ton/Pallet

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