

ZHENGZHOU HAIXU ABRASIVES CO.,LTD

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HAIXU ABRASIVES

## GREEN SILICON CARBIDE JIS240#

### TECHNICAL DATA SHEET

### 绿碳化硅 240#技术参数表

➤ **PRODUCT/产品:** Green Silicon Carbide JIS240#/绿碳化硅 240#

➤ **Physical Index/物理参数:**

|                                     |   |
|-------------------------------------|---|
| Hardness: HV/维氏硬度                   | 3280-3400kg/mm <sup>2</sup>             |
| Hardness: Mohs/莫氏硬度                 | 9.4-9.5                                 |
| Specific Gravity/比重                 | 3.2 g/cm <sup>3</sup>                   |
| 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              | 1.25-1.30 g/cm <sup>3</sup>             |
| 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 <sup>2</sup> .sec (900° C) |
| Thermal expansion coefficient/热膨胀系数 | 7-9 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                               | ≥99%                   | 99.32                |
| Free Si/游离硅                           | ≤0.2                   | 0.11                 |
| Free C/游离碳                            | ≤0.1                   | 0.05                 |
| Fe <sub>2</sub> O <sub>3</sub> /三氧化二铁 | ≤0.1                   | 0.03                 |
| SiO <sub>2</sub> /二氧化硅                | ≤0.2                   | 0.14                 |

➤ **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) | ≥44                 | 48.432            |
| D50(um) | 70-78               | 75.785            |
| D90(um) | ≤125                | 118.076           |

➤ **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。
- SiC foam ceramics, honeycomb ceramics. / 碳化硅泡沫陶瓷、蜂窝陶瓷。

➤ **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