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HAIXU ABRASIVES

绿碳化硅 F1000 技术参数表 GREEN SILICON CARBIDE F1000 TECHNICAL DATA SHEET

➤ **PRODUCT/产品:** 绿碳化硅 F1000/ Green Silicon Carbide F1000

➤ **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	0.76-0.80 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	≥ 98.5%	98.76
Free Si/ 游离硅	≤ 0.2	0.13
Free C/ 游离碳	≤ 0.3	0.20
Fe ₂ O ₃ / 三氧化二铁	≤ 0.15	0.11
SiO ₂ / 二氧化硅	≤ 0.3	0.24

➤ **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)	≥ 2	3.031
D50(um)	4.4-5.4	5.288
D90(um)	≤ 9	8.807

➤ **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