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HAIXU ABRASIVES

GREEN SILICON CARBIDE JIS500#

TECHNICAL DATA SHEET

绿碳化硅 500#技术参数表

➤ **PRODUCT/产品:** Green Silicon Carbide JIS500#/绿碳化硅 500#

➤ **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	1.1-1.2 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%	99.26
Free Si/游离硅	≤0.2	0.08
Free C/游离碳	≤0.1	0.06
Fe ₂ O ₃ /三氧化二铁	≤0.1	0.04
SiO ₂ /二氧化硅	≤0.2	0.10

➤ **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)	≥19	19.663
D50(um)	29-35	33.577
D90(um)	≤56	55.866

➤ **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