

ZHENGZHOU HAIXU ABRASIVES CO.,LTD

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HAIXU ABRASIVES

GREEN SILICON CARBIDE F100

TECHNICAL DATA SHEET

绿碳化硅 F100 技术参数表

➤ **PRODUCT/产品:** Green Silicon Carbide F100/绿碳化硅 100#

➤ **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%	99.26
Free Si/游离硅	≤0.30	0.12
Free C/游离碳	≤0.20	0.09
Fe2O3/三氧化二铁	≤0.40	0.10
SiO2/二氧化硅	≤0.30	0.18

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

Grit 粒度	Mesh#	Mesh size(um)	Weight Standard(%)	Typical Value(%)
Coarsest Grit 最粗粒	+70	212	0	0
Coarse Grit 粗粒	+100	150	Max. 20	7.1

Basic Grit 基本粒	+120	125	Min. 40	52.6
Mixed Grit 混合粒	+120 +140	125 106	Min. 65	83.3
Fine Grit 细粒	-200	75	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