



## 绿碳化硅 F30 技术参数表

### GREEN SILICON CARBIDE F30 TECHNICAL DATA SHEET

➤ **PRODUCT/产品:** 绿碳化硅 30#Green Silicon Carbide F30/

➤ **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	1.2-1.6 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%	99.35
Free Si/ 游离硅	≤0.30	0.10
Free C/ 游离碳	≤0.20	0.07
Fe <sub>2</sub> O <sub>3</sub> / 三氧化二铁	≤0.40	0.09
SiO <sub>2</sub> / 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	+18	1000	0	0
Coarse Grit 粗粒	+25	710	Max. 25	8.1
Basic Grit 基本粒	+30	600	Min. 45	49.6
Mixed Grit 混合粒	+30 +35	600 500	Min. 65	86.2
Fine Grit 细粒	-40	425	Max. 3	0.8

➤ **Applications/用途:**

- 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/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