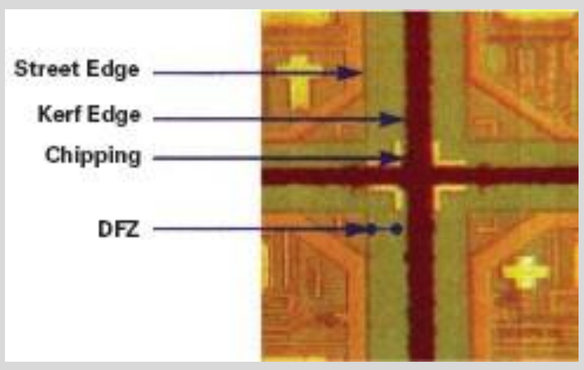
Saint-Gobain

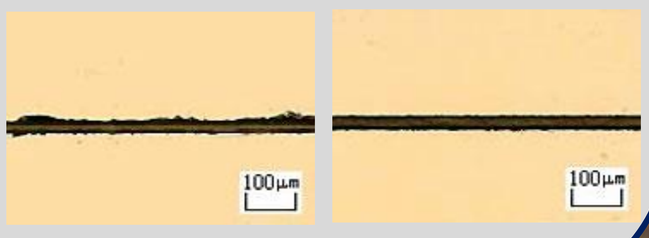
Micron diamond for FAVS

圣戈班划片刀专用微粉金刚石

Oversize & Agglomeration control
大颗粒和团聚控制

- Mid-range micron diamond must be free of oversize particles to prevent chipping during the dicing process.
- 特定中值的微粉需要去除大颗粒以避免切割过程中的崩边
- Diamond size, bond hardness, concentration, and blade thickness also contribute to the quality of the cut.
- 金刚石粒度，结合剂硬度，浓度，刀片厚度都对切割质量有影响。





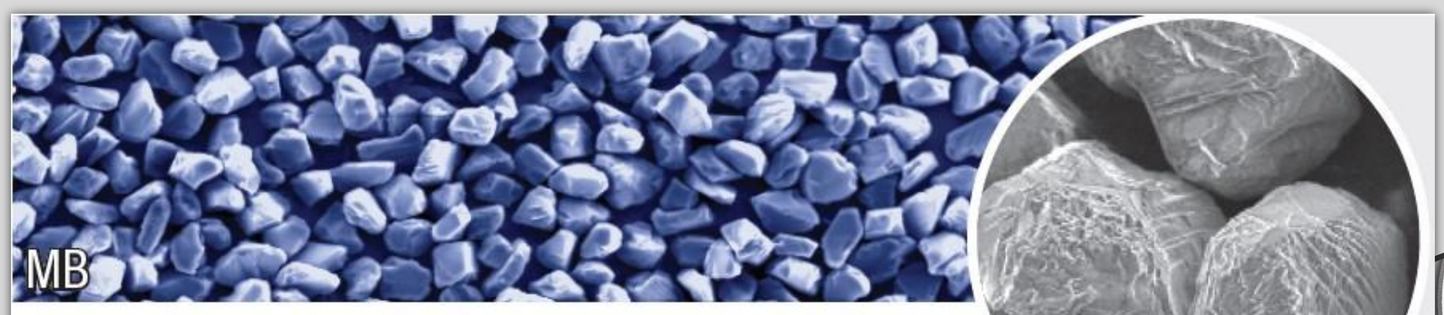
Micro-Cleaning (MC) Process
“微”洗工艺

- In 2009, Saint-Gobain introduced the micro-clean process into the slicing wheel industry.
- 2009年，圣戈班将“微洗”工艺引入到切割砂轮领域。
- Customers have noted the following benefits: 客户认识到了以下的优势
  - Reduced dispersion energy required at customer site.降低了客户端需要的分散能。
  - Increased plating and blade efficiency.增加镀覆和刀片出产效率。
  - Tighter cutting path through semiconductor materials.在半导体材料上得到更窄的切割道。
- We call the process micro-cleaned because typical surface ICP data of each element is on the order of 1ppm or lower.
- 圣戈班称此工艺为“微洗”，因为可以得到小于等于1PPM的表面ICP数据。

Elements (microgram/g = ppm wt.) for two typical 2-6um lots		
Al	0.37	0.49
B	0.3	< 0.3
Ca	0.27	0.35
Cd	< 0.1	< 0.1
Co	< 0.2	< 0.2
Cr	< 0.2	< 0.2
Cu	< 0.3	< 0.3
Fe	0.3	0.4
K	< 3	< 3
Mg	< 0.1	< 0.1
Mn	0.10	0.80
Na	< 0.5	< 0.5
Ni	< 0.2	< 0.2
Si	1.2	2.7
Ta	nd	nd
Ti	0.16	0.50
V	< 0.2	< 0.2
Zn	< 0.1	< 0.1
Zr	0.22	< 0.2

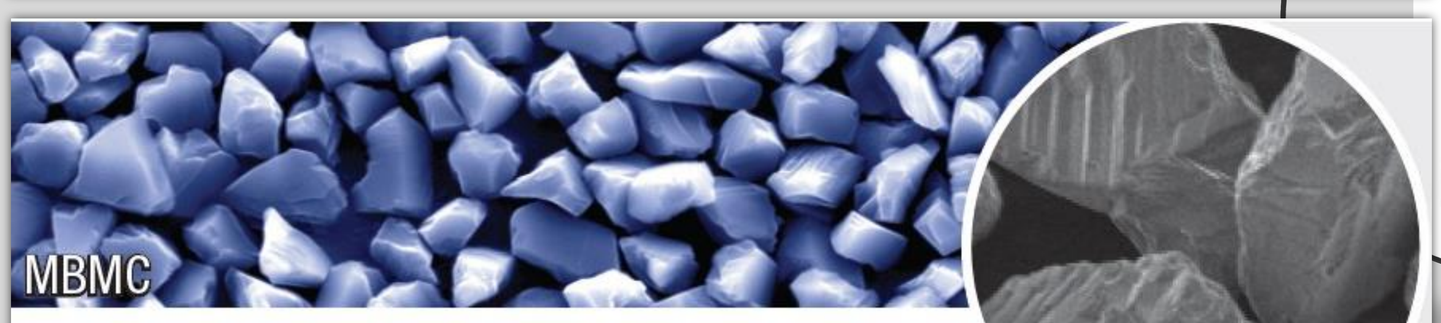
FAVS product portfolio – 划片刀金刚石微粉产品目录

MB
advanced PSD control, very clean diamond surface
MB：精密的粒径分布控制，非常清洁的金刚石表面



MB为块状微粉，粒度分布窄，大颗粒控制严格。单个金刚石粒度形状之间差异不大，这在磨削，研磨和抛光中可以增强切割效率和耐用度。

MB-MC
advanced PSD, ultra-clean diamond surface (micro-cleaned)
MB-MC：精密的粒径分布控制，极其清洁的金刚石表面（微洗工艺)



MBMC是一种高品级微粉，具有严格的粒度控制和超洁净的表面，推荐用于电镀和陶瓷结合剂配方，主要应用于电子行业包括: 高端磨削，精密研磨，抛光，划片，锯切，切断等。

SAINT-GOBAIN