










## SFD DIAMOND ABRASIVES

### Synthetic Diamond Monocrystal

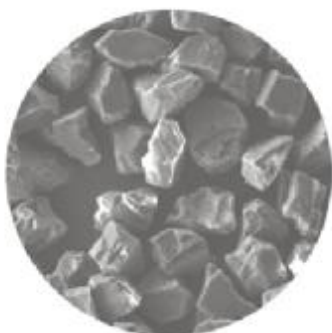
As the hardest material known, synthetic diamond monocrystal is widely used for metallurgy, oil drilling, construction engineering, mechanical processing, instruments, electronic industries, aviations and space field etc. We can supply full range of synthetic diamond with very stable quality to meet customers' needs.

Type	Shape & properties	Application	
SFD10	Irregular shape, rough surface, low strength	for resin bond grinding wheels and tools, also suitable for vitrified bond tools	
SFD20	Irregular crystal shape, rough surface, low strength	suitable for grinding tools, wheels which work with low load.	
SFD30	Irregular crystal shape, low strength, suitable.	for grinding tools, wheels which work with low load	
SFD40	Comparatively regular crystal shape, medium strength, suitable	for cutting tools and grinding wheels that work with medium and low load.	
SFD50	Comparatively regular crystal shape, high strength, containing some regular crystals	suitable for grinding and cutting tools, grinding wheels that work with medium load.	
SFD70	Comparatively regular crystal shape, high mechanic strength, containing more regular crystals,	suitable for grinding and free-cutting tools, grinding wheels which work with medium load.	
SFD90	Complete crystal shape with full surface, transparent, low impurity, and high strength	suitable for circular saws, frame-saws and geological broach.	
SFD92	Complete crystal shape, perfect cubic octahedron, good diaphaneity, high impact strength and thermal stability,	suitable for high grade cutting, drilling, and grinding tools.	
SFD94	Consistent crystal color, regular shape, good transparency, high strength and great thermal stability	suitable for tools sawing all kinds of hard stone , concrete, and geological drills.	

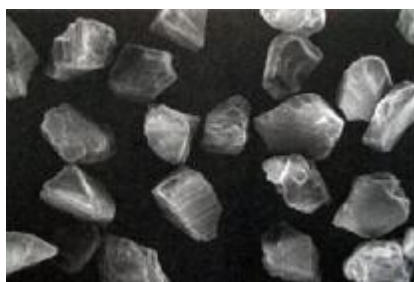


## SFD DIAMOND MICRON POWDER

SFD diamond micron powder is designed for grinding, lapping, polishing and fine finishing application. It is mainly used in the fine machining and finishing of glass, ceramics, tungsten carbide, semi-conductors, electronic components, PCD and PCBN tools. We supply a wide range, from 0~1 to 36~54 microns.



Monocrystal Diamond Micron Powder , selecting monocrystalline diamond as the raw material, our diamond powder is produced through crushing, shaping, purifying and grading. As a kind of super hard abrasive, it has features of high hardness, strength,toughness, good thermal conductivity and fine heat stability and impact resistance.



Multinano-crystal Diamond Micron Powder,light gray color,blocky shape, friable,multicrystal structure.Size distribution and shape are controlled tightly.

### Size Available

GRAIN SIZE	36~54	30~40	22~36	20~30	12~22	10~20	8~12	6~12	5~10	4~8	4-6
( $\mu\text{m}$ )	3~6	2.5~5	2~4	1.5~3	1-3	0~2	1-2	0.5~1.5	0~1	0~0.5	0~0.25