



ZHECHENG HONGXIANG SUPERHARD MATERIAL CO.,LTD

 **+86 13613801611**

 **admin@hnhongxiang.com**

 **www.hnhongxiang.com**

 **Block A,5th Research Institution,University Science Park,
High-Tech Zone,Zhengzhou,China 450000**



What'sApp



Website



HNHONGXIANG
ZHECHENG HONGXIANG SUPERHARD MATERIALS CO. LTD.

SYNTHETIC DIAMOND POWDER



COMPANY PROFILE

HNHONGXIANG was founded in 1990, located in the hometown of China diamond, mainly engaged in the production of diamond powder and diamond tools.

Synthetic diamond powder, grit from 30/35 to 500/600, mainly used to kinds of diamond tools for cutting, drilling, grinding etc in diferent field. Diamond micron powder, grit from 0-0.1 um - 40-60um, mainly used to surface polishing in different field. Total output of diamond powder is 100 milion carats per month.

Diamond tools, including diamond drill bit, diamond wheel, diamond saw blade etc for glass, stone, ceramic, carbide etc industrial.

HNHONGXIANG focus on diamond industry over 30 years, insist on the quality development and integrity management. Now we have 19 patents and ISO9001, GSG and other qualification certificates, customers spread all over the 162 countries.

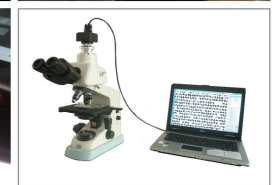
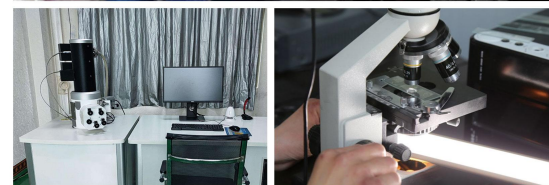
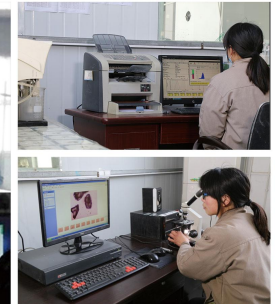


PRODUCTION EQUIPMENT



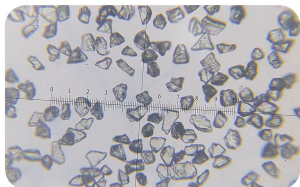
QUALITY INSPECTION

The morphological characteristics, particle size distribution, impurity content, conductivity, Ph value, purity, dispersion, etc. of diamonds are tested by laser, counting and morphology to ensure the stability of the quality of diamond powder.



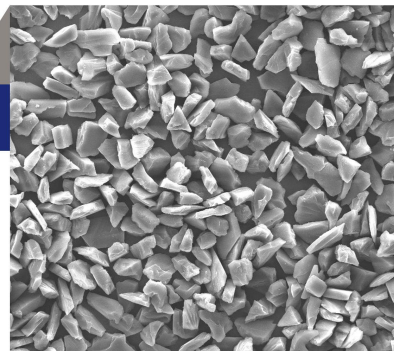
DIAMOND MICRON POWDER

HDG



Feature:

1. Economical grade;
2. Low strength and fine self-sharpening;
3. Relatively regular crystal form;
4. Standard particle size distribution.



Usage:

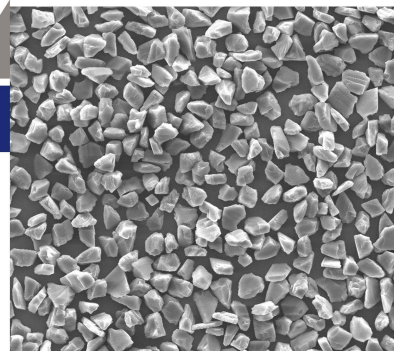
For polishing gemstone, diamonds, ceramic parts, tungsten/silicon carbide seals, wire drawing dies, metal parts etc and making diamond pad, diamond abrasive ficket , diamond grinding wheel and etc.

HDY



Feature:

1. Regular and uniform crystal form;
2. High purity and good polishing effect;
3. Concentrated diamond particle size distribution;
4. Good dispersion, not easy to agglomerate;
5. High strength and wear resistance.

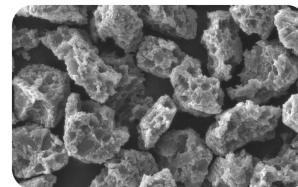


Usage:

For polishing gemstone, diamonds, ceramic parts, tungsten/silicon carbide seals, wire drawing dies, metal parts etc and Making diamond pad, diamond abrasive ficket , diamond grinding wheel and etc.

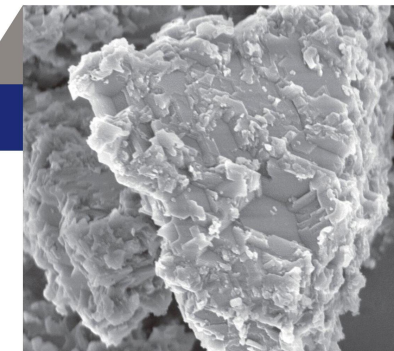
DIAMOND MICRON POWDER

HDYP



Feature:

1. High purity;
2. Uniform crystal form;
3. High polishing efficiency and self-sharpening ability;
4. Concentrated particle size distribution;
5. High surface polishing finish.



Usage:

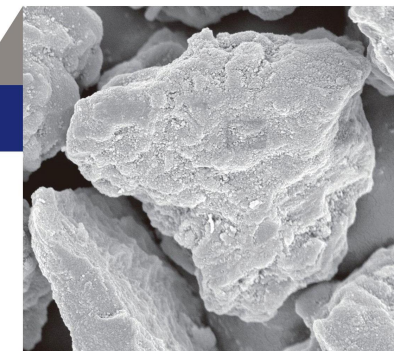
For making diamond lapping slurry and other polishing tools, for semiconductor Industry (Sapphire, Si, SiC, GaN, etc), precision ceramic parts, optical glass and IT industry' s precision polishing etc.

HDP



Feature:

1. High purity;
2. Uniform crystal form;
3. Narrow particle size distribution;
4. High polishing efficiency;
5. Great dispersion stability;
6. Excellent surface polishing finish.

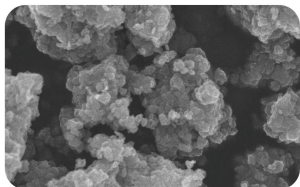


Usage:

For making diamond lapping slurry and other polishing tools, for semiconductor Industry (Sapphire, Si, SiC, GaN, etc), precision ceramic parts, optical glass and IT industry' s precision polishing etc.

DIAMOND MICRON POWDER

HDN

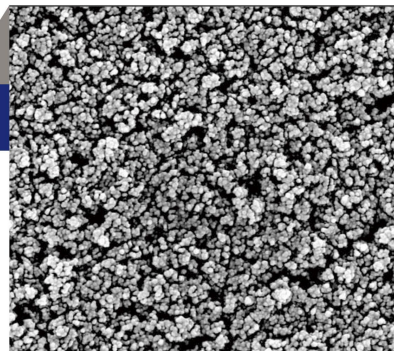


Feature:

1. Single and Poly diamond nanopowder;
2. Concentrated particle size distribution;
3. High polishing precision & wear resistance;
4. Good dispersibility, not easy to agglomerate.

Size:

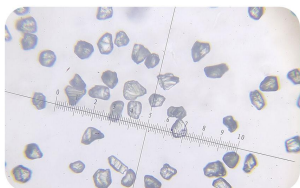
30nm,50nm,80nm,100nm,150nm,
200nm,250nm,500nm.



Usage:

For precision polishing and ultra-precision polishing, as an additive to lubricants or other materials, to improve friction performance composite coating.

HDYX



Feature:

1. Use high-strength raw materials;
2. Regular crystal shape and good consistency;
3. Concentrated particle size distribution;
4. High purity and good dispersibility.



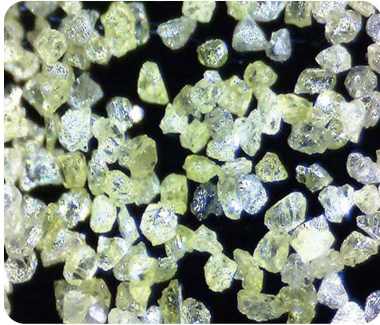
Usage:

Specially used for making diamond wire for cutting sapphire, silicon wafers, etc.

Mesh	Grit	HDG	HDY	HDYP	HDP	HDYX
60000	0-0.25		★		★	
30000	0-0.5		★		★	
15000	0-1		★		★	
13000	0-2		★	★	★	
12000	1-2		★	★	★	
10000	1-3		★	★	★	
7000	2-3		★	★	★	
6500	2-4	★	★	★	★	★
5000	2-5	★	★	★	★	★
4000	3-6	★	★	★	★	★
3000	4-8	★	★	★	★	★
2500	4-9	★	★	★	★	★
2000	5-10	★	★	★	★	★
1800	6-12	★	★	★	★	★
1600	8-12	★	★	★		★
1300	8-16	★	★	★		★
1200	10-20	★	★	★		★
1000	12-22	★	★	★		
800	15-25	★	★	★		
700	20-30	★	★	★		
600	22-36	★	★	★		
500	20-40	★	★	★		
450	30-40	★	★	★		
400	35-45	★	★	★		
320	40-60	★	★	★		

CRUSHING DIAMOND POWDER

RVG



Economical grade:

1. Irregular and sharp shape;
2. Lower strength;
3. Fragile and good self-sharpening.

Usage:

For making resin bond diamond grinding wheel, diamond abrasive fickert, diamond pad and other diamond tools, etc.

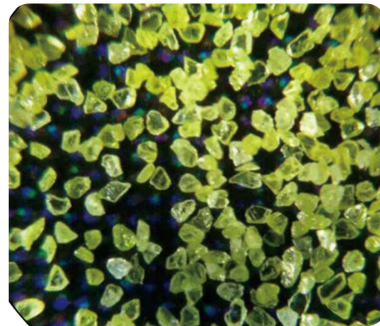
Standard grade:

1. Irregular and sharp shape;
2. Higher strength and wear-resistance;
3. Fragile and good self-sharpening, fine cutting efficiency;
4. Less impurities and lower magnetic.

Usage:

For making resin bond diamond tools, ceramic bond diamond tools and electroplating diamond tools for gemstone, carbide, steel, glass, ceramic, stones and etc processing.

RVD

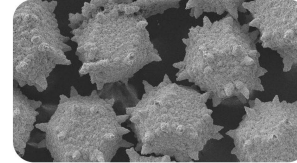


GRIT

Grit	D45	D46	D54	D64	D76	D91	D107	D126	D151	D180
	400/500	325/400	270/325	230/270	200/230	170/200	140/170	120/140	100/120	80/100
RVG	★	★	★	★	★	★	★	★	★	★
RVD	★	★	★	★	★	★	★	★	★	★

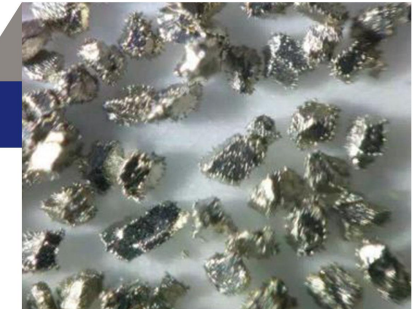
COATED DIAMOND POWDER

HDCN



Nickel coating diamond powder is recommended for use in phenolic and polyimide resin bond systems to improve the mechanical retention of the diamond, thereby enhancing tool life and workpiece surface finish.

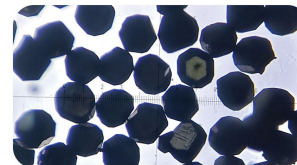
There are four types: 30%, 30%N, 56%, 56%N.



Usage:

For making resin bond diamond wheel for carbide, glass, ceramic etc.
For making electroplating diamond drill bit for gemstone etc.
For making diamond wire and cutting tools for plastic, SiC, glass etc.

HDCT



Titanium coating provides oxidation resistance, significantly improving tool life and enhancing wettability allowing for increased diamond protrusions. These coatings are very effective in metal bond systems, and there is no deterioration of the diamond surface or strength when the titanium is applied to the crystals.

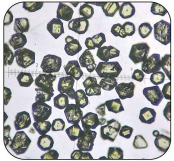


Usage:

For making metal bond diamond tools or thermally conductive material, etc.

METAL BOND DIAMOND POWDER

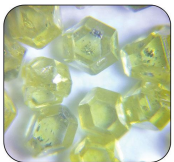
MBD2



Crystal form is complete and crystal surface is smooth relatively , low compressive strength.

Generally, used for cutting & grinding soft stone and brittle materials, and also can be used for diamond dressing knives.

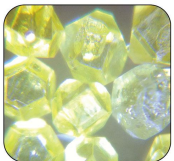
MBD4



Crystal complete, crystal surface smooth, low compressive strength.

Generally used for cutting & grinding soft stone and brittle materials, and also can be used for diamond dressing knives.

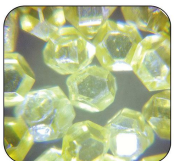
MBD6



Crystal complete, crystal surface smooth, moderate compressive strength.

Generally used for soft and brittle marble and other stone cutting drilling, concrete drilling.

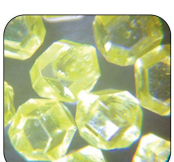
MBD8



Crystal complete, high purity, medium toughness and thermal stability, high impact resistance.

Generally used for cutting medium hardness stone, (e.g). granite, marble, concrete drilling & cutting, and making dressing tool etc.

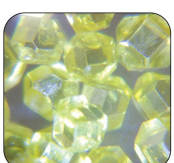
MBD10



Crystal complete, high purity, medium toughness and thermal stability, high impact resistance.

Generally used for cutting high hardness stone (e.g). granite, marble, concrete drilling & cutting, and making dressing tool etc.

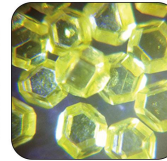
MBD12



Crystal complete, high purity, high toughness and thermal stability, high impact resistance.

Generally used for produce high hardness diamond tools, (e.g), reinforced concrete saw blade, geological drilling bits, diamond dressing tools etc.

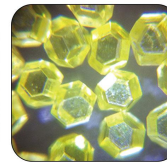
SMD25



Highly complete crystal form, Regular octahedron with eight-side, high purity, high compressive strength toughness and thermal stability, high impact resistance.

Generally used for produce very high hardness diamond tools for cutting, such as diamond cutting wire saws, large stone diamond saw blade, for kinds reinforced concrete & geological materials drilling, various types of diamond repair knife etc.

SMD30



The crystal form is very highly complete octahedron with eight-side, high purity, ultra high compressive strength toughness and thermal stability and impact resistance, and high TI & TTI.

Generally used for very high hardness stone and reinforced concrete diamond tools, electroplated diamond tools, diamond dressing knife & geological drill bit etc.

Grit		MBD2	MBD4	MBD6	MBD8	MBD10	MBD12	SMD25	SMD30
D46	325/400	★	★		★		★		★
D54	270/325	★	★		★		★		★
D64	230/270	★	★		★		★		★
D76	200/230	★	★		★		★		★
D91	170/200	★	★		★		★		★
D107	140/170	★	★		★		★		★
D126	120/140	★	★		★		★		★
D151	100/120	★	★		★		★		★
D180	80/100	★	★		★		★		★
D213	70/80	★	★	★	★	★	★	★	★
D251	60/70	★	★	★	★	★	★	★	★
D301	50/60	★	★	★	★	★	★	★	★
D356	45/50	★	★	★	★	★	★	★	★
D426	40/45	★	★	★	★	★	★	★	★
D501	35/40	★	★	★	★	★	★	★	★
D601	30/35	★	★	★	★	★	★	★	★