



**Our Performance:**





**Our Quality Control Center:**



▲Electronic Microscope



▲X-ray Diffractometer



▲Product Records



▲Diamond Morphology Analysis



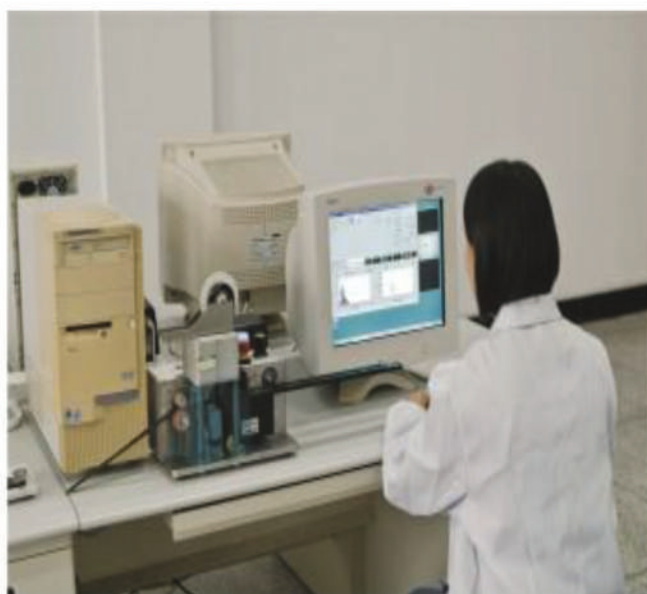
▲Ti Tti Tester



▲Automatic Compressive Strength Tester



钴磁分析检测仪  
Cobalt Magnetic Analysis Tester



自动静压强度仪  
Automatic Compressive Strength Tester

### HBD Series

#### Brand: HBD90

This series has a large synthetic single crystals, the maximum size of 4.2 mm. And the crystalline form of this brand is a regular, committed geksaoktaedrom. Almost did not contain impurities. Corresponds to a D.

#### Brand: HBD80

This series has a large synthetic single crystals, the maximum size of 4.2 mm. And the crystalline form of this brand is a regular and geksaoktaedrom. Containing little impurities in the crystal. Corresponds to a C.

#### Brand: HBD60

This series has a large synthetic single crystals, the maximum size of 4.2 mm. And the crystalline form of this brand is a regular and geksaoktaedrom. Containing little impurities in the crystal. Corresponds to a C.

#### Brand: HBD40

This series has a large synthetic single crystals, the maximum size of 4.2 mm. And the crystalline form of this brand is a regular and geksaoktaedrom. Corresponds to a B.

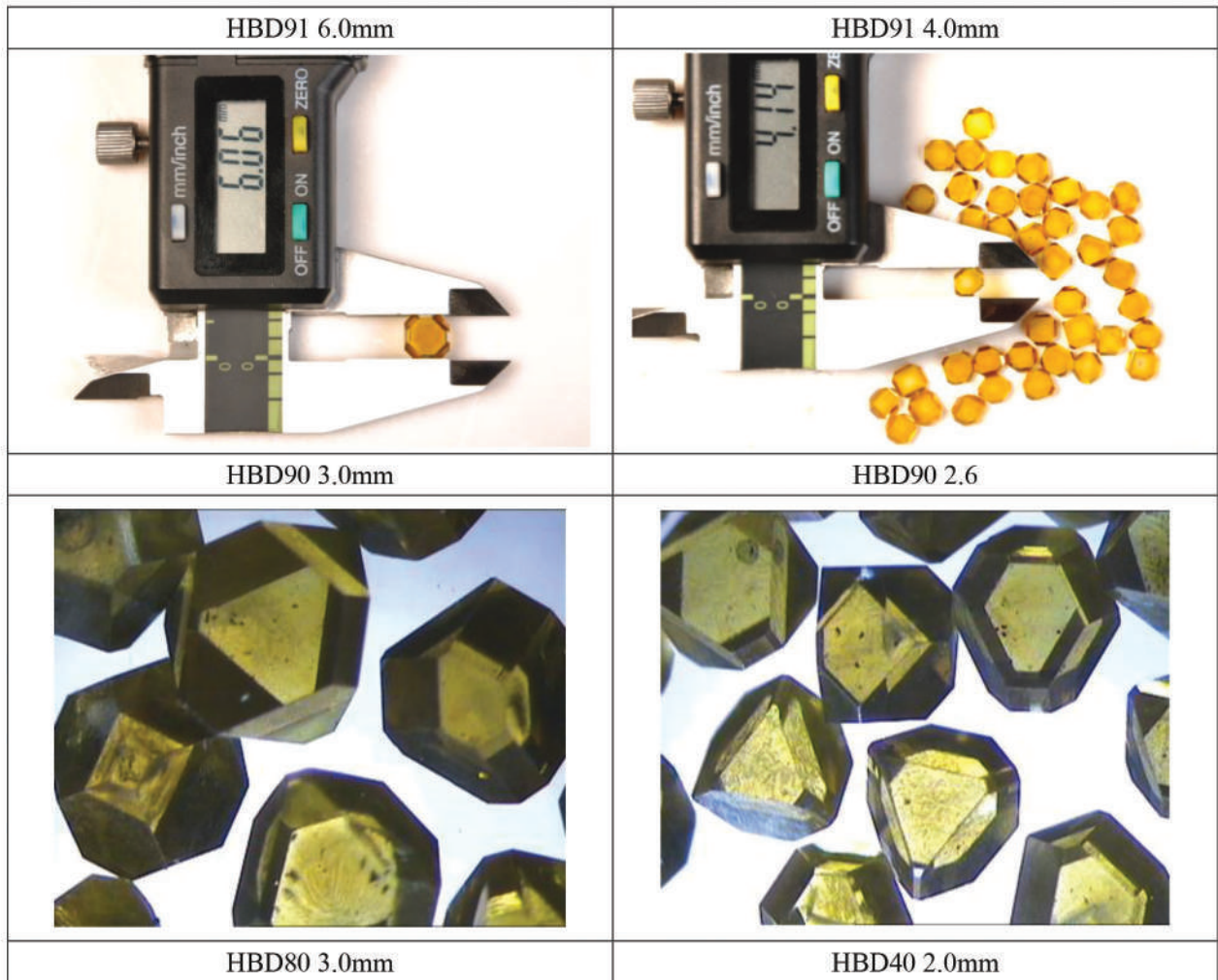
#### Brand: HBD20

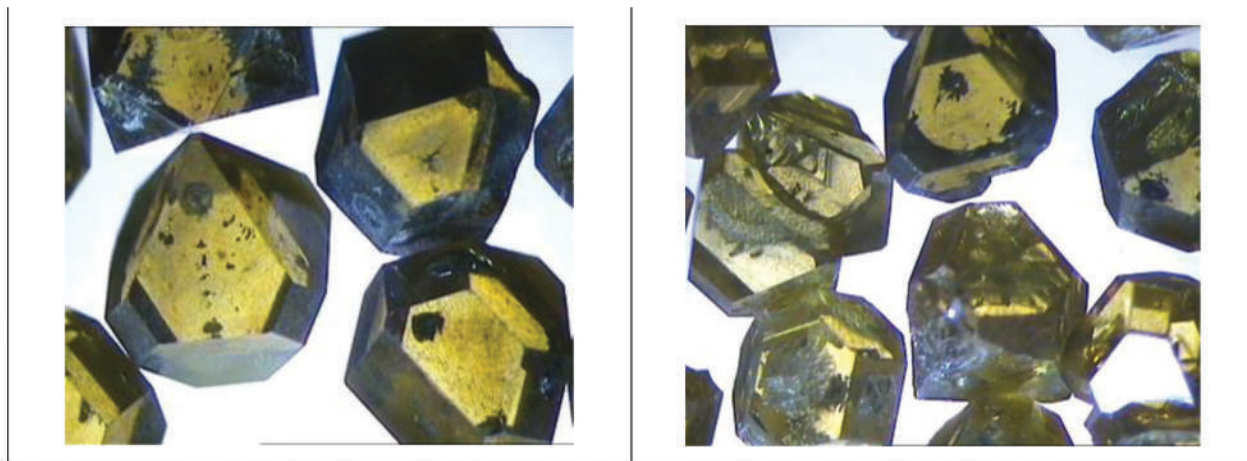
This series has a large synthetic single crystals, the maximum size of 3.0 mm. And the crystalline form of this brand is relatively regular. Corresponds to an A.

| HSD series   |       |       |       |        |        |        |        |
|--------------|-------|-------|-------|--------|--------|--------|--------|
| Size<br>Type | 6.0mm | 5.0mm | 4.0mm | 3.0 mm | 2.8 mm | 2.6 mm | 2.4 mm |
| HBD20        |       |       | -     | -      | -      | -      | -      |
| HBD40        |       |       | -     | -      | -      | -      | -      |
| HBD60        |       |       | -     | -      | -      | -      | -      |
| HBD80        |       |       | -     | -      | -      | -      | -      |
| HBD90        |       |       | -     | -      | -      | -      | -      |
| HBD91        | -     | -     | -     | -      | -      | -      | -      |

HSD series

| Size<br>Type | 2.2 mm | 2.0 mm | 10/12 | 12/14 | 14/16 | 16/18 | 18/20 |
|--------------|--------|--------|-------|-------|-------|-------|-------|
| HBD20        | -      | -      | -     | -     | -     | -     | -     |
| HBD40        | -      | -      | -     | -     | -     | -     | -     |
| HBD60        | -      | -      | -     | -     | -     | -     | -     |
| HBD80        | -      | -      | -     | -     | -     | -     | -     |
| HBD90        | -      | -      | -     | -     | -     | -     | -     |
| HBD91        | -      | -      | -     | -     | -     | -     | -     |





### **HSD series**

#### **Brand: HSD80+/90**

Completely regular shape of cubo-octahedron, nearly no impurity, high impact toughness and good thermal stability. The difference margin between TI and TTI is less or equal to 2. Its wear resistance could reach up to similar grade products from international top companies. Applied to making professional sawing tools for reinforced concrete and asphalt, high quality geological drill and engineering drill, wire saw, electroplated grinding wheels for processing High Speed Rail Accessories, ect. And its abrasion resistance is to ensure high levels of a company with Element Six and GE.

**Application:** For the manufacture of professional diamond blade for asphalt and concrete. And as for the manufacture of high-quality geological drilling, diamond crown, diamond wire and galvanized abrasive wheel, which will process parts for high-speed trains. etc.

**Analogues:** SDB 1100, MBS-970.

#### **Brand: HSD70/80**

The crystallinity of the diamond shape is regular and complete. Containing little impurities in the crystal. And has a good dynamic strength (the TI) and temperature resistance (the TTI), and good sharpness.

**Application:** For the manufacture of above-average diamond discs, diamond crown, diamond wire, and high-quality grinding tools.

**Analogues:** SDB 1100, MBS-970.

#### **Brand: HSD50/60**

The crystalline form of this brand is relatively regular and perfect .. It has a high (good) temperature resistance (the TTI) and dynamic strength (the TI). And a very good sharpness.

**Application:** For the manufacture of medium-sized tools for cutting and grinding.

**Analogues:** SDB 1065/1045, MBS-970.

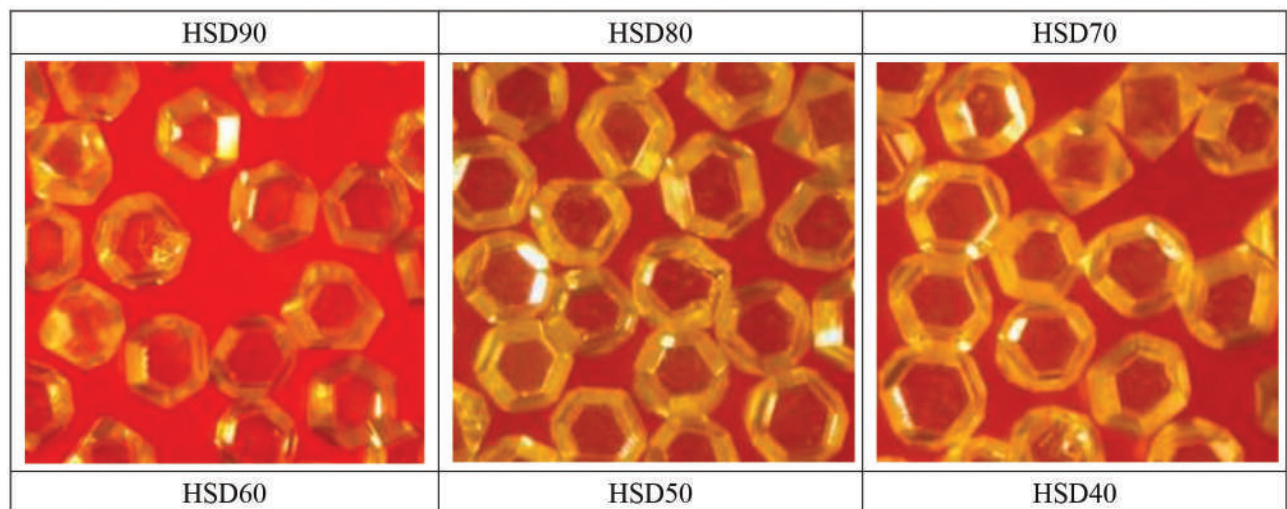
#### **Brand: HSD30/40**

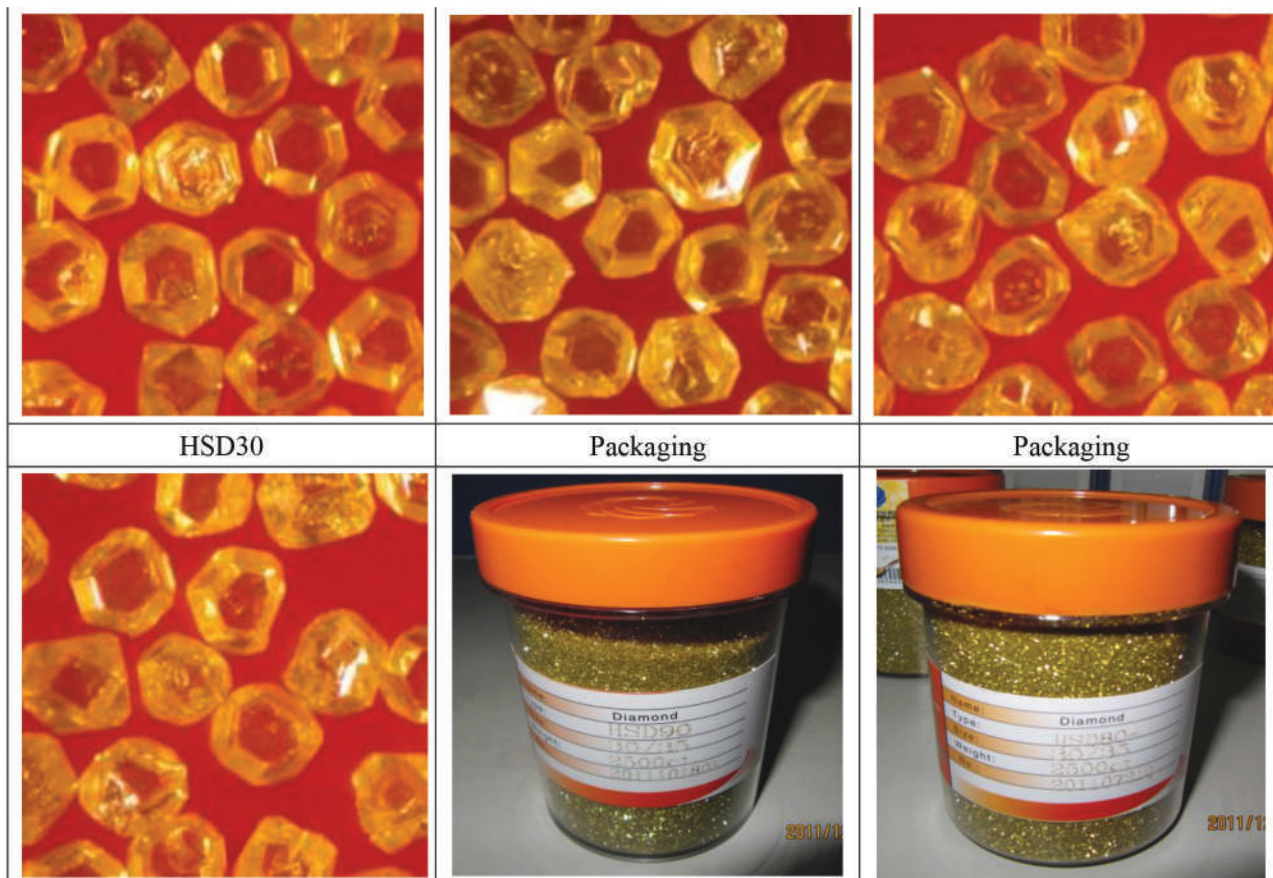
The crystalline form of this brand is relatively regular. Low temperature resistance (the TTI) and dinomicheskaya strength (the TI). and good sharpness.

**Application:** For the manufacture of nizkosredno-quality tools for cutting and grinding.

**Analogues:** SDB 1035. MBS-970.

| HSD series |            |    |     |            |    |     |            |    |     |            |    |     |
|------------|------------|----|-----|------------|----|-----|------------|----|-----|------------|----|-----|
| Size       | 20/25      |    |     | 25/30      |    |     | 30/35      |    |     | 35/40      |    |     |
| Type       | Price (\$) | TI | TTI | Price (\$) | TI | TTI | Price (\$) | TI | TTI | Price (\$) | TI | TTI |
| HSD20      | 0.1000     |    |     | 0.0840     |    |     | 0.0680     |    |     | 0.0680     |    |     |
| HSD30      | 0.1320     |    |     | 0.1160     |    |     | 0.0840     |    |     | 0.0840     |    |     |
| HSD40      | 0.1800     |    |     | 0.1480     |    |     | 0.1150     | 62 | 40  | 0.1000     | 62 | 40  |
| HSD50      | 0.2100     |    |     | 0.1950     |    |     | 0.1320     | 67 | 50  | 0.1160     | 67 | 50  |
| HSD60      | 0.2430     |    |     | 0.2280     |    |     | 0.1480     | 74 | 60  | 0.1320     | 74 | 60  |
| HSD70      | 0.2920     |    |     | 0.2750     |    |     | 0.1560     | 80 | 70  | 0.1400     | 80 | 70  |
| HSD80      | 0.3230     |    |     | 0.3070     |    |     | 0.1640     | 87 | 80  | 0.1480     | 87 | 80  |
| HSD90      | 0.4820     |    |     | 0.4190     |    |     | 0.2920     | 93 | 90  | 0.2590     | 93 | 90  |





### Series HWD

#### Brand: HWD92/HWD80

The crystalline form of this brand is a regular and perfect geksaoktaedrom.

Have a very high temperaturostoyuostyu (the TTI) and dinomicheskoy strength (the TI). And contained little defects in crystals. A takzhe.horoshaya abrasion.

**Application:** For the manufacture of high-quality diamond wheels with average diameters for cutting hard granite, reinforced concrete, and an asphalt road. And as for the manufacture of diamond crown, geological drilling, diamond wire, high quality diamond blade with a small diameter galvanized and other tools.

**Analogues:** SDB 1100, MBS-970.

#### Brand: HWD60/HWD40

The crystalline form of this brand is the most regular geksaoktaedrom. It has a high temperature resistance (the TTI) and dinomicheskoy strength (the TI). And the good abrasion resistance.

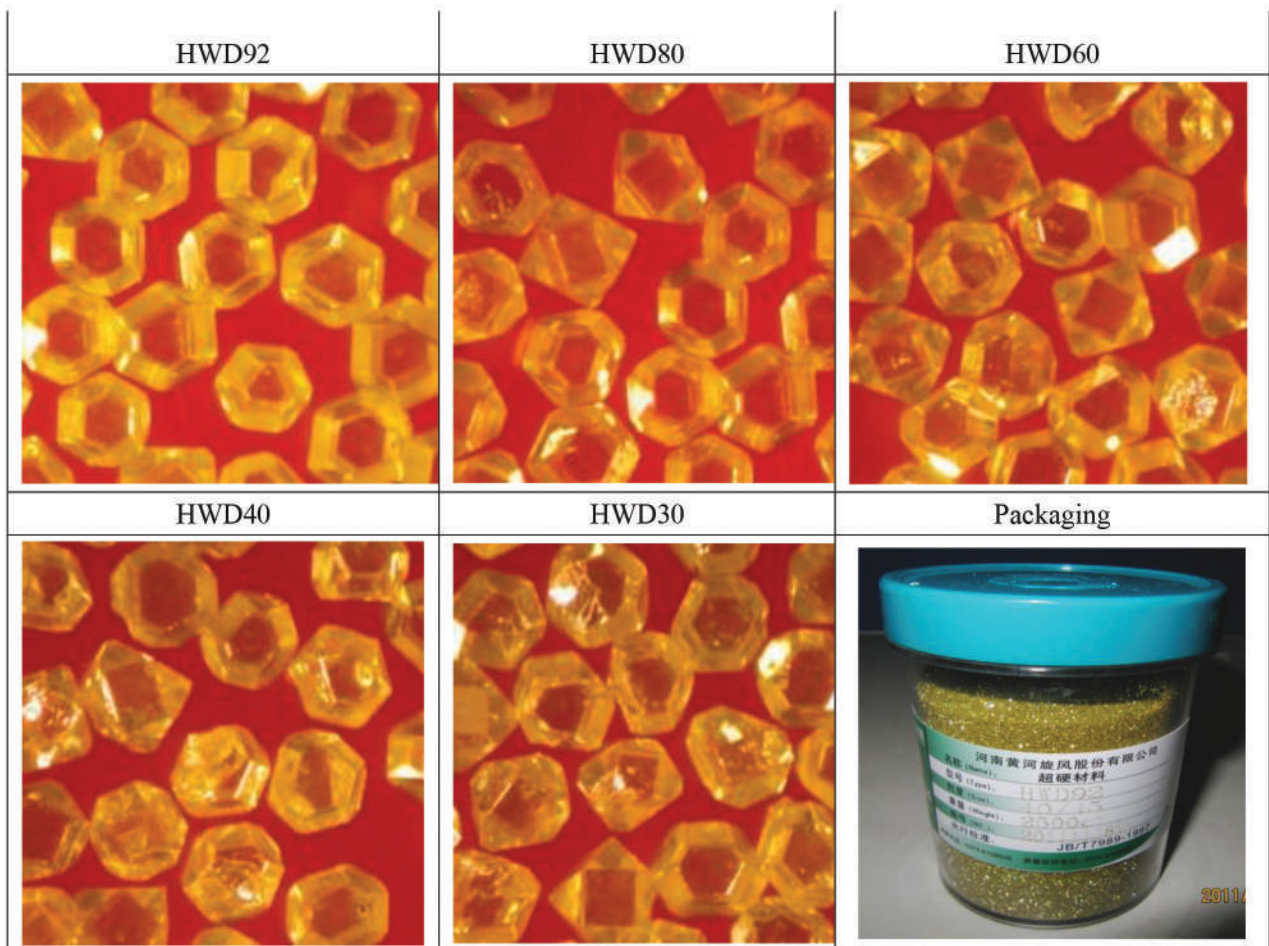
**Application:** For the manufacture of medium-quality diamond blade with large and small diameters for cutting granite, and also for the manufacture of diamond wire, diamond crown, grinding drum, shlfovalnogo circle and galvanized products with conventional trebavaniyami etc.

**Analogues:** SDB 1100, MBS-970.



**Brand: HWD40/HWD30**

| Size<br>Type | 50/60     |    |     | 60/70     |    |     | 70/80     |    |     | 80/100    |    |     |
|--------------|-----------|----|-----|-----------|----|-----|-----------|----|-----|-----------|----|-----|
|              | Price(\$) | TI | TTI | Price(\$) | TI | TTI | Price(\$) | TI | TTI | Price(\$) | TI | TTI |
| HWD5         |           |    |     | 0.0650    |    |     | 0.0700    |    |     | 0.0700    |    |     |
| HWD10        | 0.0780    | 73 | 61  | 0.0780    | 80 | 71  |           |    |     |           |    |     |
| HWD15        | 0.0840    | 81 | 73  | 0.0880    | 86 | 81  | 0.1090    |    |     | 0.1090    |    |     |
| HWD20        | 0.0900    | 84 | 78  | 0.1320    | 87 | 83  |           |    |     |           |    |     |
| HWD30        | 0.0980    | 86 | 81  | 0.1640    | 89 | 85  | 0.1320    |    |     | 0.1320    |    |     |
| HWD40        | 0.1060    | 87 | 83  | 0.1960    |    |     | 0.1560    |    |     | 0.1560    |    |     |
| HWD60        | 0.1400    | 89 | 85  |           |    |     |           |    |     |           |    |     |
| HWD80        | 0.1950    |    |     |           |    |     |           |    |     |           |    |     |
| HWD92        |           |    |     |           |    |     |           |    |     |           |    |     |



The crystalline form of this brand is a regular and perfect. Temperature resistance (the

TTI) and dinomicheskaya strength (the TI) are not bad. And polished ability is good. Application: For the manufacture of a different drive. grinding wheels and galvanized product for the treatment of ceramic tiles. stone and glass.

Analogues: SDB 1075/1065. MBS-970.

#### Series F (function)

##### Brand: F-B

The crystalline form of this brand is relatively perfect. High temperature (the TTI). good performance for cutting. And the high koeffetsient between quality and price. and good sharpness.

Application: For the manufacture of a variety of medium and high-quality tools for cutting, drilling and grinding.

##### Brand: F-A

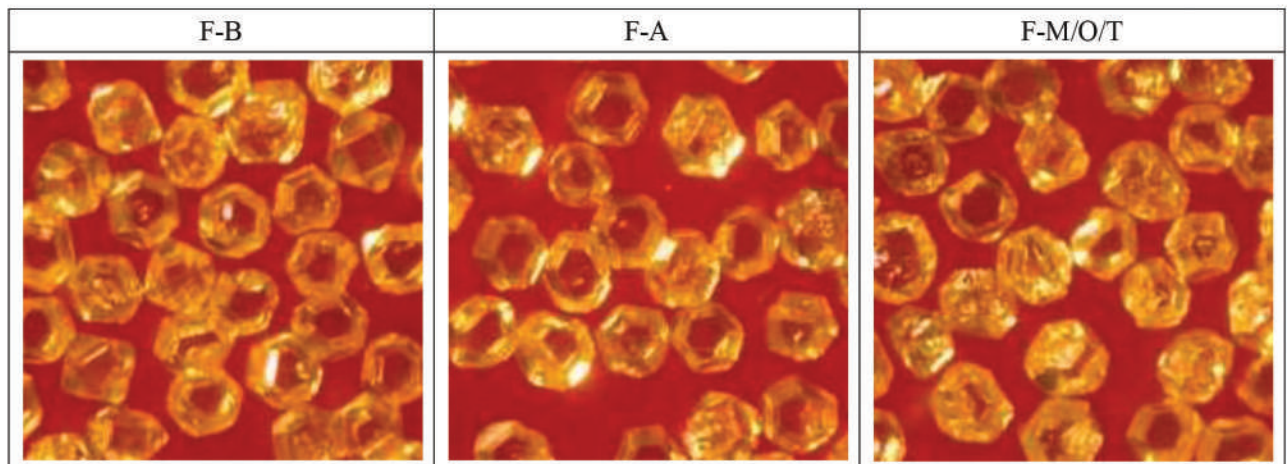
The crystalline form of this brand is perfect and regular. High temperature (the TTI). good performance for cutting. And the high koeffetsient between quality and price. and good sharpness.

Application: For the manufacture of medium-quality tools for cutting, drilling and grinding.

##### Brand: F-M/O/T

The crystalline form of this brand is common. but the sharpness is good.

Applications: Used with medium-quality diamond for the manufacture of medium-quality diamond blade.



#### Series HFD

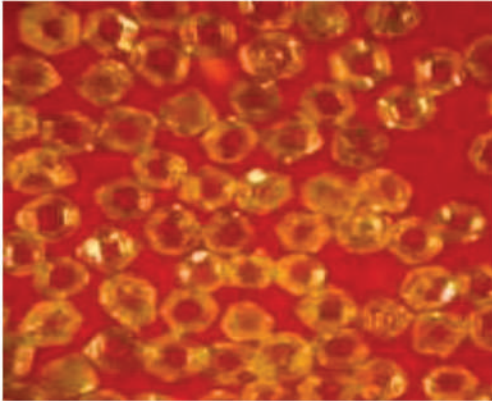
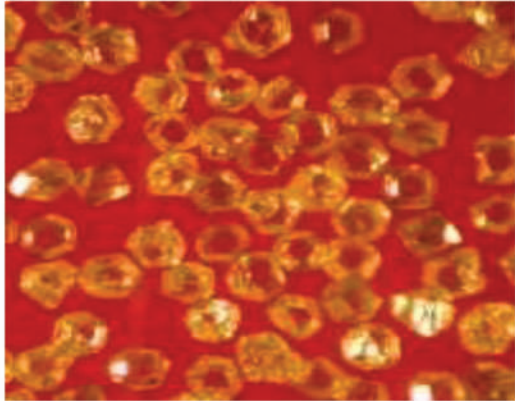
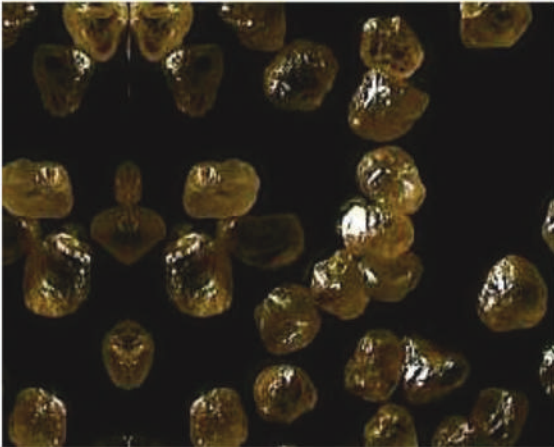
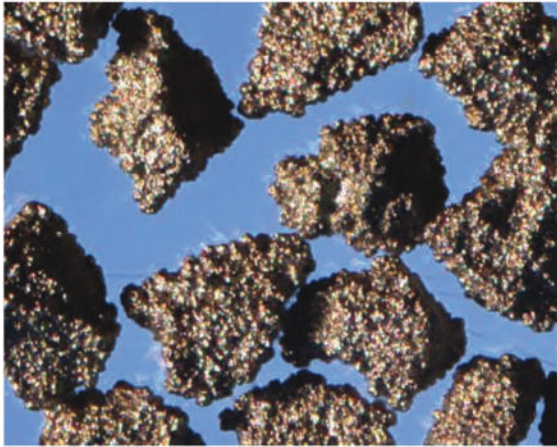
##### Brand: HFD-D / C

The crystalline form of this brand is the perfect geksaoktaedrom. good transparency. and stable characteristics. contain little impurities. It has good abrazivostoykostiyyu and applicability.

**Application:** For the manufacture of high-quality professional tools. **naprmer:** galvanized products. grinding wheels. Drill for glass. And as for the manufacture of tools for polishing and engraving of high-grade stone. And for anufacture special tools for the auto glass. ceramics. magnetic materials and other hard-brittle materials.

| Series HFD |           |           |           |           |           |
|------------|-----------|-----------|-----------|-----------|-----------|
| Size       | 100/120   | 120/140   | 140/170   | 170/200   | 200/230   |
|            | Price(\$) | Price(\$) | Price(\$) | Price(\$) | Price(\$) |
| HFD- A     | 0.0900    | 0.1000    | 0.1000    | 0.1000    | 0.1180    |
| HFD-B      | 0.1250    | 0.1330    | 0.1330    | 0.1330    | 0.1480    |
| HFD-C      | 0.1560    | 0.1800    | 0.1800    | 0.1800    | 0.1950    |
| HFD-D      | 0.2120    | 0.2290    | 0.2290    | 0.2290    | 0.2440    |

| HFD-D/C   | HFD -B/A   |
|---|--|
|   |   |
| RVD=AC15  | AC4/AC6  |
|  |  |

**Brand: HFD-B / A**

The crystalline form of this brand is relatively perfect. good transparency. and good sharpness.

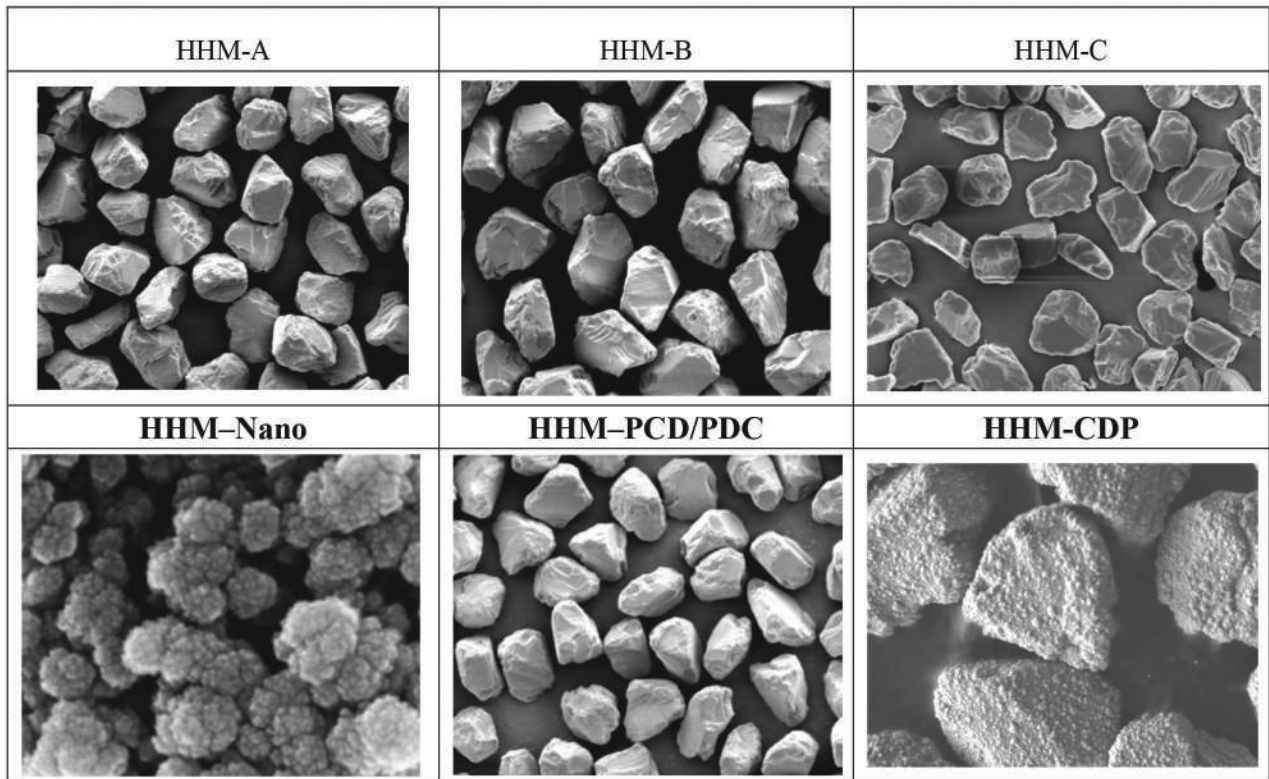
**Application:** For the manufacture of srednosortnyh tools for grinding and polishing. And as for the manufacture of grinding wheels with a metal or ceramic binder. srednosortnyh and galvanized products. And tools for the treatment of solid alloy. ceramics. magnetic materials and glass.

**Table Appointments Products**

| Series                       | Type  | Description  | Function  | Distribution of Size |
|------------------------------|---|--|---|----------------------|
| Self-Sharp Synthetic Diamond | HWDR<br>JR1-<br>AC4.<br>AC6.<br>RVD1.<br>RVE.<br>RVEG | Irregular shape  | Resin bond grinding wheel, process carbide alloy. Grinding Brick, etc.                      | 35/40—325/400        |
|                              | HHM   | Needle-shaped, irregular shape                                   | Resin bond, metal bond grinding wheel, process carbide alloy, optical glass, ceramics, etc. | 400/500—0/10(μm)     |
| Grinding Diamond             | JR2-<br>RVD2  | Irregular shape with comparative good self-sharp characteristics |   | 60/70—170/200        |
|                              | HWD5  | Comparatively regular shape and high toughness                   | Electroplated grinding wheel, grinding brick, ect   | 60/70—80/100         |
|                              | HWD30   | Comparatively regular shape and high toughness                   | Tools for floor stone/tile, glass & ceramic grinding tools, etc                             | 60-70—80/100         |
|                              | HWD40   | Regular shape, high strength                                     | Tools for floor stone/tile, glass & ceramic grinding tools, etc                             | 60-70—80/100         |
|                              | HFD-A   | Comparatively regular shape, good self-sharp characteristics     | Metal bond grinding wheel, process tools for stones, ceramics, ect.                         | 100/120—200/230      |
|                              | HFD-B   | Comparatively regular shape, good self-sharp characteristics     | Metal bond grinding wheel, process tools for stones, ceramics, ect.                         | 100/120—200/230      |

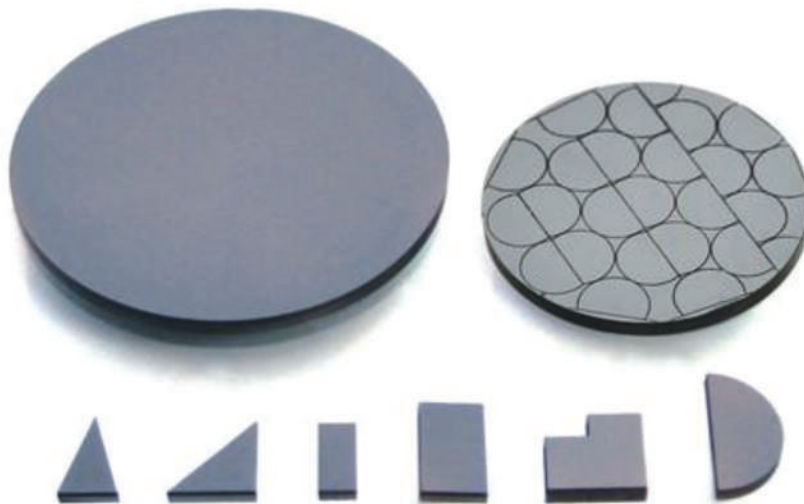
|                                      |                         |  |  |                 |
|--------------------------------------|-------------------------|--|--|-----------------|
|                                      | HFD-C                   | Regular shape and high toughness   | Electroplated tools, high precision grinding tools, ect.   | 100/120—200/230 |
|                                      | HFD-D                   | Very regular shape and high toughness                                      | Electroplated tools, high precision grinding tools, ect.   | 100/120—200/230 |
| Grinding, Sawing & Drilling Diamonds | HSD (Low grades)        | Comparatively regular shape, good self-sharp characteristics               | Grinding & polishing tools for stones and concrete, ect.   | 4/6—35/40       |
|                                      | HSD (High grades)       | Regular shape and high toughness   | Dressing tools, tools for sawing & drilling very hard stones, concrete. Geological Drill, ect.               | 4/6—35/40       |
|                                      | F-T/O/M (Function)      | Comparatively regular shape, good self-sharp characteristics               | Low demanding tools for medium-hard stones and concrete road, ect  | 35/40—50/60     |
|                                      | F-A/B (Function)        | Regular shape, good self-sharp characteristics                             | Medium-demanding tools for sawing, drilling, grinding, ect   | 30/35—50/60     |
|                                      | HWD10<br>HWD25<br>HWD20 | Comparatively regular shape, good self-sharp characteristics               | Small & medium diameter blades for general requirements, etc   | 35/40—60/70     |
|                                      | HWD30<br>HWD40<br>HWD60 | Regular shape, good wear resistance  | Relatively high demanding tools for sawing, drilling and grinding. Electroplated tools, etc                  | 35/40—60/70     |
|                                      | HWD80<br>HWD90<br>HWD92 | Completely regular shape, very high toughness and wear resistance          | High grade tools for sawing, drilling and grinding, Dressing tools. Geological Drill, ect.                   | 35/40—45/50     |
|                                      | HHH(High grades)        | Completely regular shape, low impurity, high wear resistance and toughness | Wire saw, Geological Drill, high quality electroplated tools, sawing & drilling tools for hard concrete, etc | 40/45—60/70     |

## Diamond Micro-Powder



## PCD/ PDC /PCBN

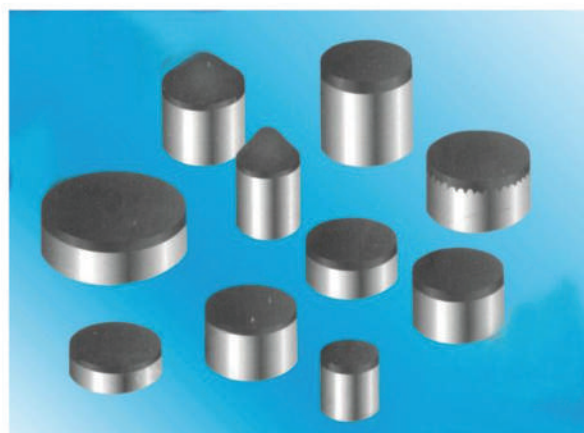
**PCD** (Polycrystalline diamond compacts:



**Application:**



**PDC**



**Application:**



PCBN



Application:





### Drawing dies

