



SYNTHETIC DIAMOND POWDER CATALOG

ZHENGZHOU BEST SYNTHETIC DIAMOND CO.,LTD

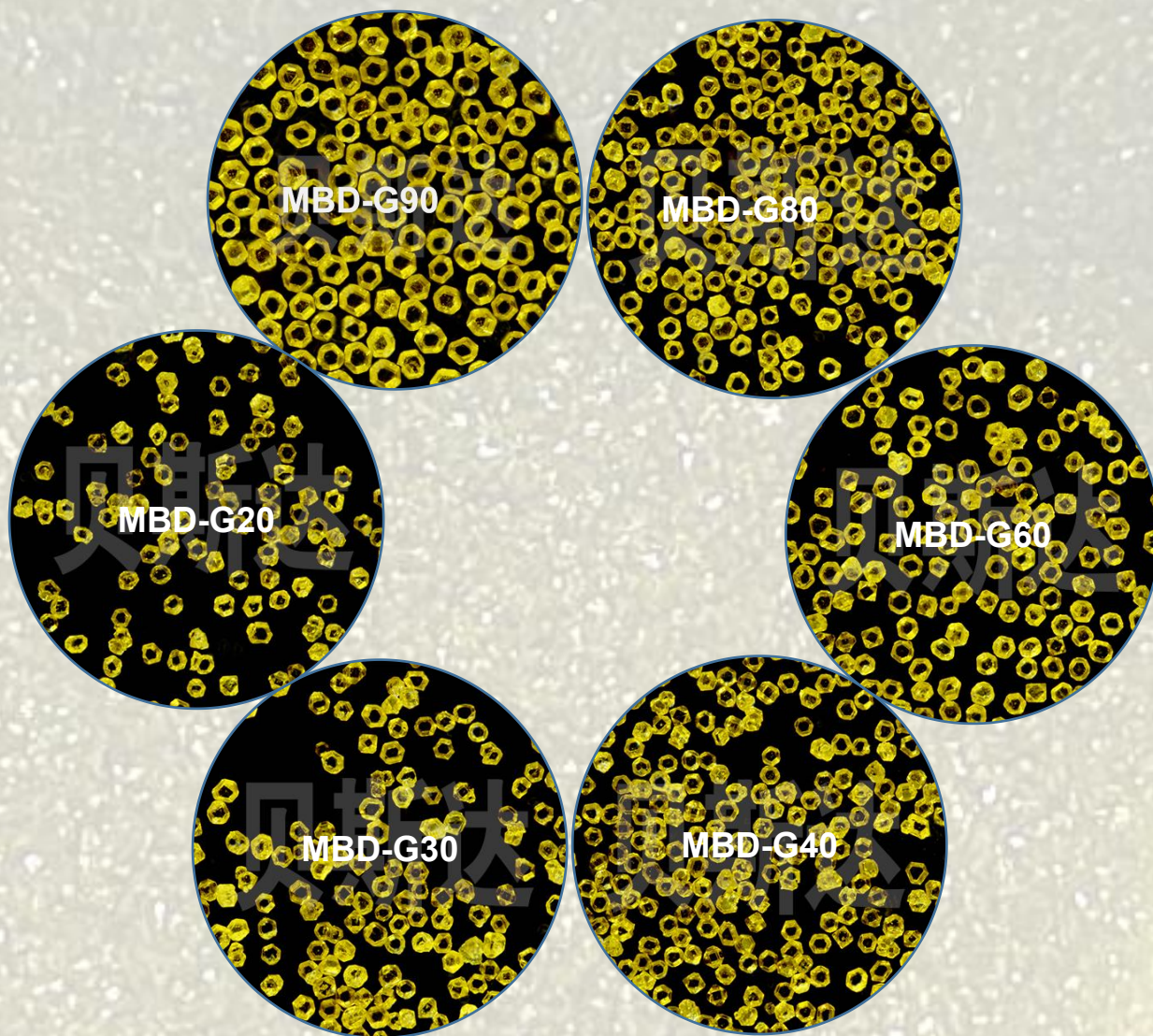


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Synthetic Diamond Fine Grit

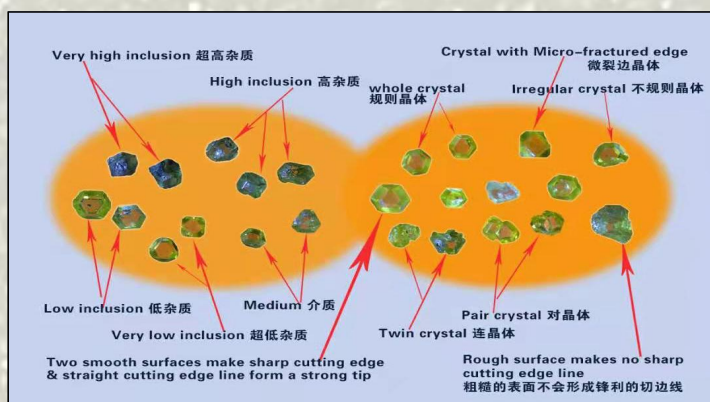


PARTICLE SIZE AVAILABLE

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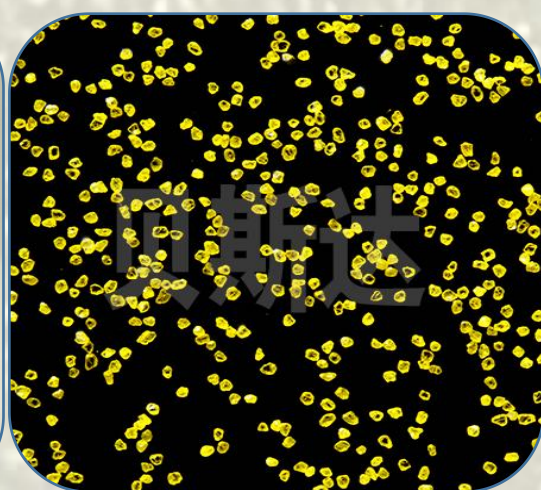
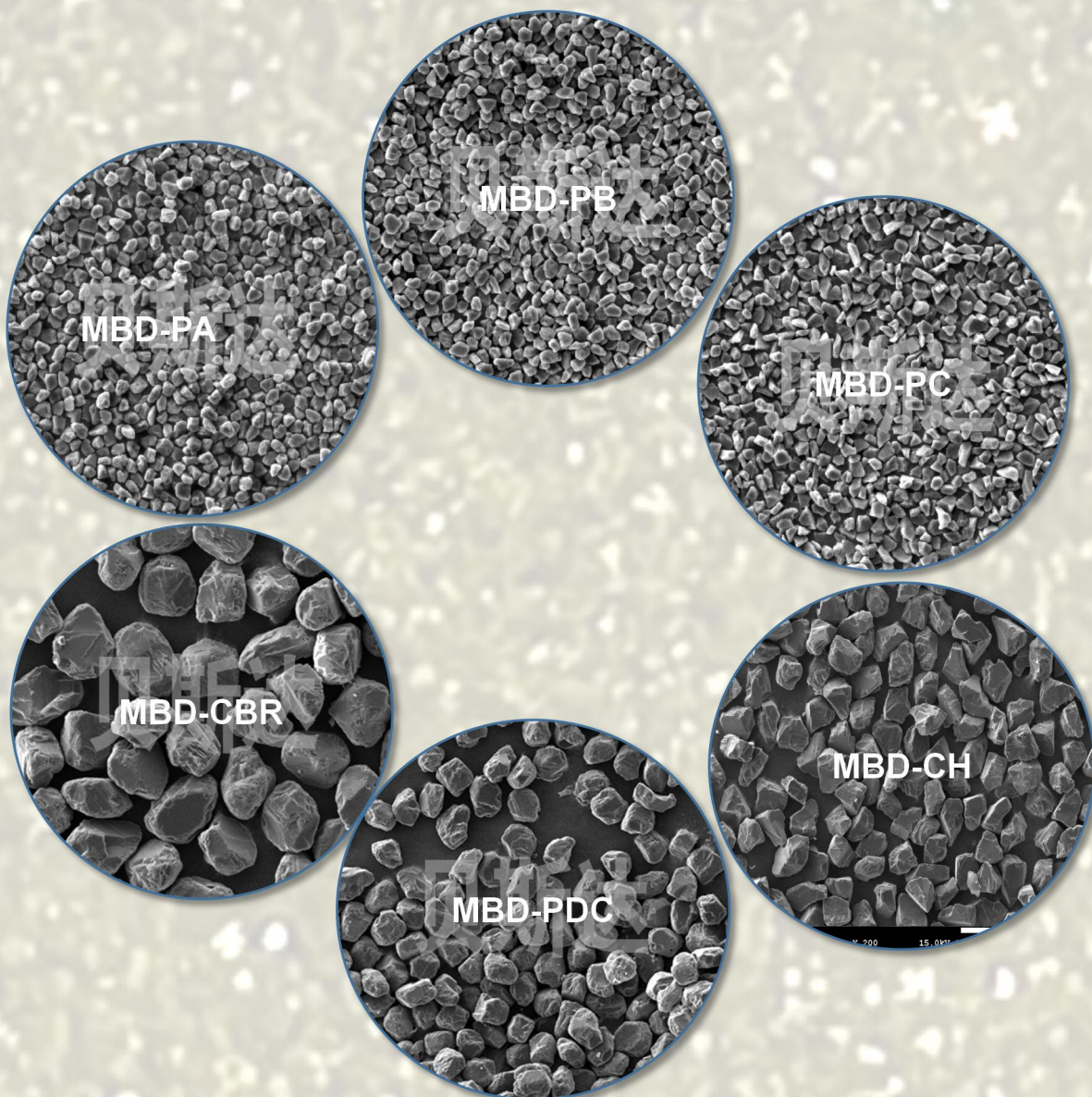
PRODUCT DESCRIPTION

The Synthetic diamond saw grit range extend from MBD-G90, which has the highest strength suitable for most demanding applications and long tools' life, to MBD-G20 the low strength with sharp edge used on less demanding application with fast cutting efficiency.



Description		Application
MBD-G90	Whole cubo-octahedral crystal shape, highest thermal stability and impact toughness.	most demanding Cutting, drilling, grinding tools
MBD-G80	Complete crystal shape, high transparency, Low content of impurities, high impact strength	circular saws, cabinet circular saws and geological broach
MBD-G60	Cubic eight surface and uniform crystal shape, High Impact strength, high thermal stability.	high hardness materials' cutting and polishing. Such as granite, Ceramic and hard alloy etc.
MBD-G40	Cubic eight surface, excellent shape, high toughness and thermal stability	hard alloy, glass, mirror surface drilling process, etc.
MBD-G30	Regular crystal shape with sharp edge	medium loading cutting tools
MBD-G20	Irregular crystal shape with sharp edge, low strength	less demanding grinding and polishing filed etc.
MBD-R20	Irregular crystal shape, rough surface, friable strength Excellent self sharpness	Tungsten carbide grinding, metal bond honing of cylinders and dental burs etc

Synthetic Diamond Micro Powder



PRODUCT DESCRIPTION

Good average particle size and coarse granularity, low content of impurities, industry synthetic diamond powder enhance the tool's wear resistance, extend the service life. BSD has various type of sizes and shapes available, with excellent quality, affordable price.

	Description	Application
MBD-PA	Narrow partical peak, extraordinary spherical crystal Crystal shape, scratch-free surface and highest abrasion resistance	Precisely lapping and polishing most demanding industrial. prevent the scratches
MBD-PB	Tightly controlled size, cleaner surface properties with Exceptional consistency in strength, size, purity	Lapping & fine polishing glass, wafer, PCD, corning Gorilla glass, optical glass, touch glass, LED substrate, semiconductor grinding and precision electron
MBD-PC	Irregular shape, good controlled particle size Distribution	Core drill, core grinding, OD grinding, crystal&glass decorating Groove, tungsten grinding and Rough-finish grinding of crystal&granite.
MBD-CH	Regular crystal shape, narrow particle size distribution, high purity and high wear resistance.	All kinds of double-side grinding And polishing field
MBD-PDC	Regular crystal shape, narrow particle size distribution, high strength and high purity, good thermal stability.	PCD, PDC composite Coated abrasives
MBD-CDP	Regular crystal shape, extremely concentrated particle size, the particle shape is approximately spherical, high strength, strong grinding force, low impurity content, good dispersion and wear resistance	Optical glass grinding precise grinding
MBD-CBR	Utilize the high quality diamond source and special processing to ensure the diamond has both sharpness and strength, good water ability, excellent wear-resisting, and long-life.	Electric grinding head or sintered grinding head
MBD-CDW	High quality raw materials, uniform blocky particle shape and the clean surface, good thermal stability and high wear resistance	Diamond powder for Wire Saws devices

PARTICLE SIZE AVAILIABLE

CN	ISO	(Mesh#)	MBD-PA	MBD-PB	MBD-PC	MBD-CH	MBD-PDC	MBD-CDP	MBD-CDR	MBD-CDW
W0.125	0-0.2	120000	√	√	√	√	√	√	√	√
W0.25	0-0.25	60000	√	√	√	√	√	√	√	√
W0.5	0-0.5	30000	√	√	√	√	√	√	√	√
W1	0-1	15000	√	√	√	√	√	√	√	√
W1.5	1-2	12000	√	√	√	√	√	√	√	√
W2.5	1-3	10000	√	√	√	√	√	√	√	√
W3	2-3	7000	√	√	√	√	√	√	√	√
W3.5	2-4	6000	√	√	√	√	√	√	√	√
W4	2-5	5000	√	√	√	√	√	√	√	√
W5	3-6	4000	√	√	√	√	√	√	√	√
W6	4-6	3500	√	√	√	√	√	√	√	√
W7	4-8	3000	√	√	√	√	√	√	√	√
W10-	5-10	2000	√	√	√	√	√	√	√	√
W10	6-12	1800	√	√	√	√	√	√	√	√
W12	8-12	1600	√	√	√	√	√	√	√	√
W14	8-16	1300	√	√	√	√	√	√	√	√
W20	10-20	1000	√	√	√	√	√	√	√	√
W22	12-22	900	√	√	√	√	√	√	√	√
W25	15-25	800	√	√	√	√	√	√	√	√
W28	20-30	600	√	√	√	√	√	√	√	√
W35	22-36	500	√	√	√	√	√	√	√	√
W40	30-40	400	√	√	√	√	√	√	√	√
W45	35-45	380	√	√	√	√	√	√	√	√
W50	36-54	350	√	√	√	√	√	√	√	√
W55	40-50	320	√	√	√	√	√	√	√	√

POLYCRYSTALLINE DIAMOND POWDER



PRODUCT DESCRIPTION

	Description	Application
RBD	Grey green color, blocky shape with the micro-chipping Crystal structure, friable and good self-sharpness	Tungsten steel, cemented carbide cermet and ceramic workpieces
RBP	Light gray surface, blocky shape with micro-chipping Structure, friable.	Glass, tungsten carbide, ceramics Etc, materials
MLP	Rough surface, excellent material removal rates And perfect performance of surface finish.	Semiconductor materials and fine finishing processing applications.
MPD	Excellent self sharpening, offer higher polishing Efficiency and ultra final finish surface.	Engine lubricating oil, brake system, Optical cold processing, sapphire & Wafer polishing requirement

PARTICLE SIZE AVAILABLE

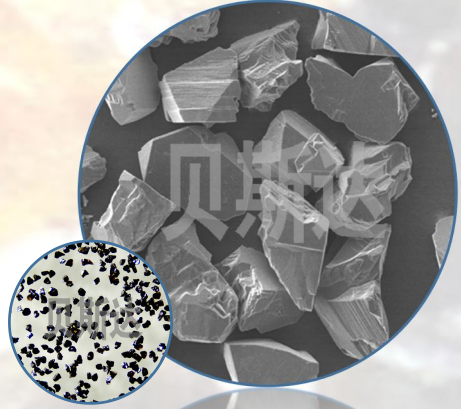
CN	ISO	(Mesh#)	RBD	RBP	MLP	MPD
W0.125	0-0.2	120000				
W0.25	0-0.25	60000			√	
W0.5	0-0.5	30000			√	√
W1	0-1	15000			√	√
W1.5	1-2	12000			√	√
W2.5	1-3	10000			√	√
W3	2-3	7000			√	√
W3.5	2-4	6000			√	√
W4	2-5	5000			√	√
W5	3-6	4000			√	√
W6	4-6	3500		√	√	√
W7	4-8	3000		√	√	√
W10-	5-10	2000		√	√	√
W10	6-12	1800		√	√	√
W12	8-12	1600		√	√	
W14	8-16	1300		√	√	
W20	10-20	1000		√	√	
W22	12-22	900		√	√	
W25	15-25	800		√	√	
W28	20-30	600		√	√	
W35	22-36	500		√	√	
W40	30-40	400		√	√	
W45	35-45	380		√	√	
W50	36-54	350		√	√	
W55	40-50	320		√	√	
325/400	46		√		√	
270/325	54		√		√	
230/270	64		√		√	
200/230	76		√		√	
170/200	91		√		√	
140/170	107		√		√	
120/140	126		√		√	
100/120	151		√			
80/100	181		√			

SUPERHARD MATERIAL CBN

CBN-DB20

DESCRIBE: Black surface, irregular crystal shape, friable toughness, high self sharpness.

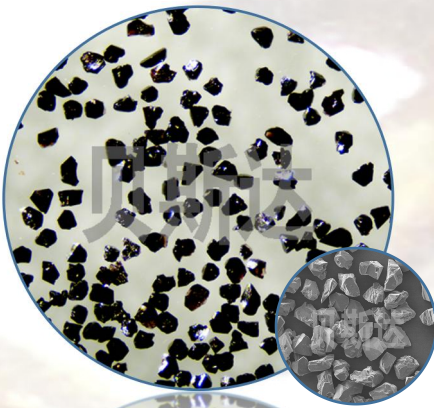
APPLICATION: Resin bond system and low grinding temperature grinding,



CBN-DB40

DESCRIBE: Black surface, blocky crystal shape, higher Fracture strength, high thermal stability.

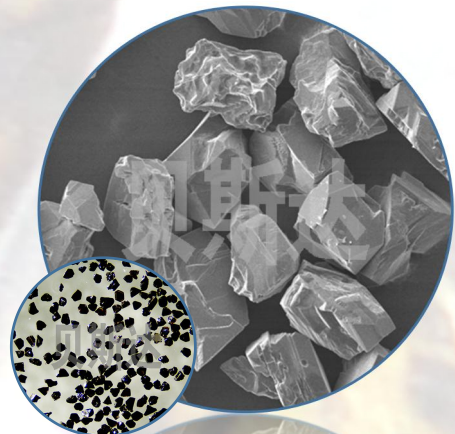
APPLICATION: Vitrified and metal bond system, increased Performance and grinding efficiency in automotive, Air conditions compressor parts.

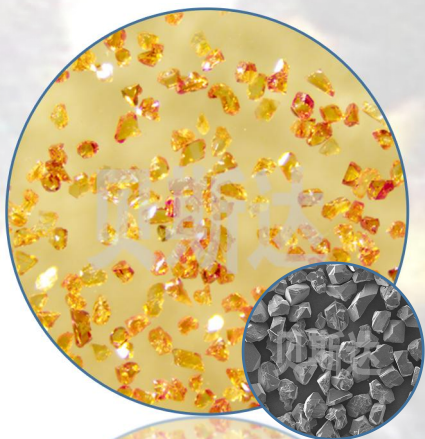


CBN-DB60

DESCRIBE: Black colour, sharp angular crystal, medium fracture Strength, high thermal stability.

APPLICATION: Vitrified bond system





CBN-DA20

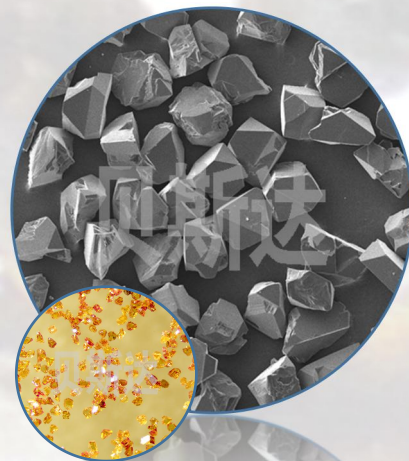
DESCRIBE: Amber surface with irregular shape.

APPLICATION: Soft alloy steel fields with more faster Grinding efficiency

CBN-DA40

DESCRIBE: Amber surface with the semi-blocky shape, High impact stability.

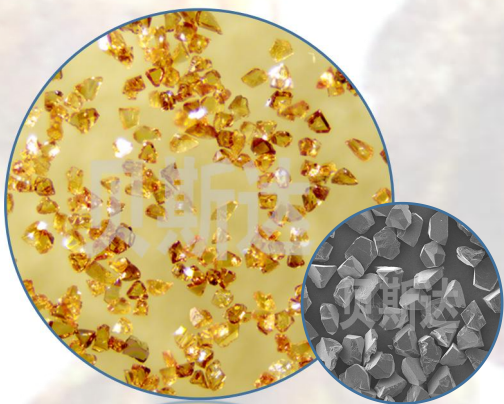
APPLICATION: Vitrified and metal bond grinding tools.



CBN-DA60

DESCRIBE: Amber colour, blocky shape and highest fracture strength.

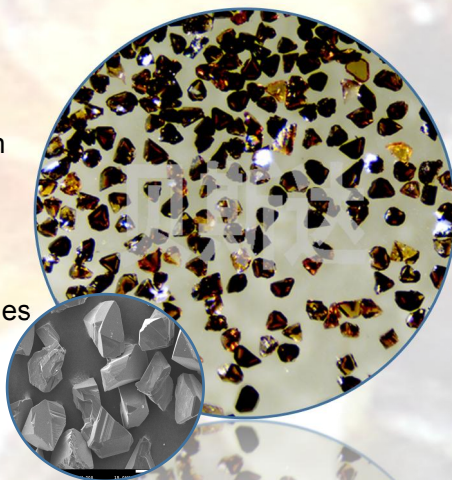
APPLICATION: Electroplated bond, hardened tool steels, carbon alloys, and nickel and cobalt-based Superalloys.



CBN-DA80

DESCRIBE: Black brown colour, irregular shape, high strength
And high thermal stability.

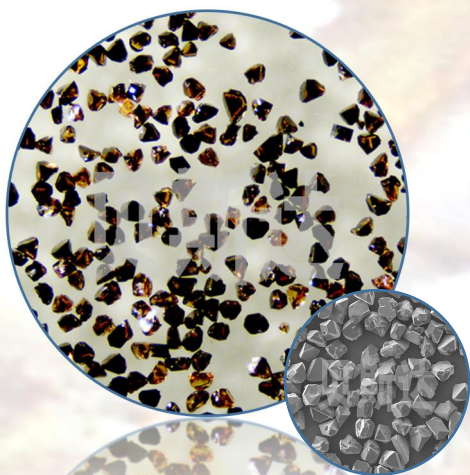
APPLICATION: Metal bond systems, automotive CVT gearing
Grinding, ID/OD grinding of tools and dies
Among other applications such as honing stones
For super-finishing (coating with Ti)



CBN-DA90

DESCRIBE: Black brown colour, semi-blocky crystal Shape, high strength and high thermal Stability.

APPLICATION: Metal and electroplated bond systems.



PARTICLE SIZE AVAILABLE

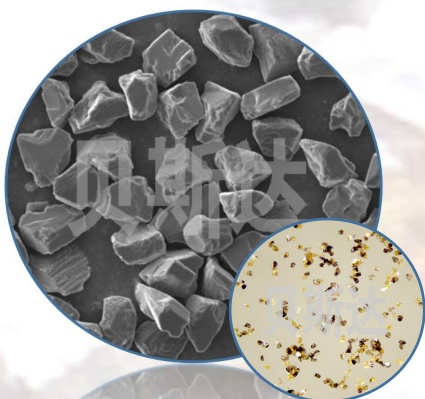
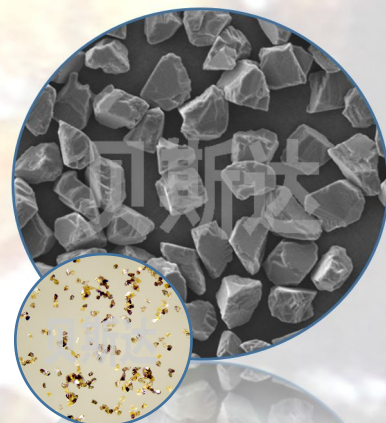
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CUBIC BORON NITRIDE POWDER

CBN-PA

DESCRIBE: Black surface, semi-blocky shape, high crushability.

APPLICATION: Metal and vacuum brazing bonding system for honing and grinding.



CBN-PB

DESCRIBE: Black surface, semi-blocky shape, high Crushability.

APPLICATION: Metal and vacuum brazing bonding system for honing and grinding.

SIZE AVAILABLE

CN	ISO	(Mesh#)	CBN-PA	CBN-PB	CN	ISO	(Mesh#)	CBN-PA	CBN-PB
W1	0-1	15000	√	√	W12	8-12	1600	√	√
W1.5	1-2	12000	√	√	W14	8-16	1300	√	√
W2.5	1-3	10000	√	√	W20	10-20	1000	√	√
W3	2-3	7000	√	√	W22	12-22	900	√	√
W3.5	2-4	6000	√	√	W25	15-25	800	√	√
W4	2-5	5000	√	√	W28	20-30	600	√	√
W5	3-6	4000	√	√	W35	22-36	500	√	√
W6	4-6	3500	√	√	W40	30-40	400	√	√
W7	4-8	3000	√	√	W45	35-45	380	√	√
W10-	5-10	2000	√	√	W50	36-54	350	√	√
W10	6-12	1800	√	√	W55	40-50	320	√	√