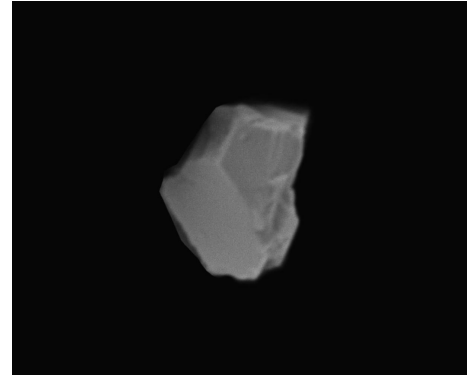




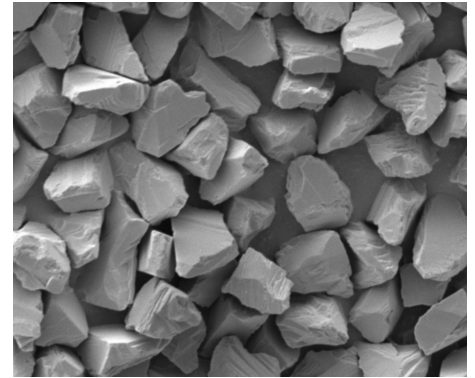
## Monocrystalline Diamond Powder - NMS

Monocrystalline diamond powder is produced by HPHT synthesis. The diamond particles have sharp edges and high hardness. Because of its self-sharpening mechanism, it increases diamond tools life. Monocrystalline diamond powder NMS is a popular choice for precision grinding and polishing.



## Characteristics

Monocrystalline diamond powder particles have sharpened shape and their edges are relatively sharp and hard, which ensures good self-sharpening. Relatively concentrated particle size distribution, high strength, effectively avoid deep scratches while providing high cutting capacity. The particles are low impurity, it can keep the surface of the grinding workpiece clean and avoid abnormal substances.



## Application

- ◆ Semiconductor processing: silicon wafers, germanium, gallium arsenide, indium phosphide, silicon carbide, gallium nitride and other semiconductor materials.
- ◆ Sapphire processing: sapphire substrates, LED chips, optics lens, watch or clock glass, mobile phone fingerprint recognition films, etc.
- ◆ Ceramic and Metal processing: ceramic materials such as zirconia ceramic special-shaped parts, aluminum nitride substrates, mobile phone ceramic covers, watch ceramic structural parts, stainless steel, aluminum parts, copper parts, mold steel, mobile phone backplane, and other super hard alloy metal materials.
- ◆ Grinding liquid and pads: cooperate with diamond suspension & slurry or diamond pads manufacture.





## Standard Size Range



Order Number	Item Name	Grit Size micron	Median (D50) micron	Median Tolerance micron	Upper limit (D99) micron
1.04.00001	NMSM	0-0.02	0.012	0.0115~0.0125	0.0234
1.04.00002	NMSM	0.02-0.04	0.025	0.024~0.026	0.0488
1.04.00003	NMSM	0.04-0.07	0.05	0.048~0.052	0.098
1.04.00004	NMSM	0.06-0.1	0.075	0.072~0.078	0.146
1.04.00005	NMSM	0.06-0.15	0.09	0.087~0.094	0.176
1.04.00006	NMSM	0.1-0.2	0.125	0.12~0.13	0.244
1.04.00007	NMSM	0.15-0.25	0.18	0.173~0.187	0.351
1.04.00008	NMSM	0.15-0.3	0.21	0.202~0.218	0.41
1.04.00009	NMSM	0.25-0.5	0.35	0.337~0.364	0.683
1.04.00010	NMSM	0.35-0.75	0.5	0.481~0.52	0.975
1.04.00011	NMSM	0.35-0.85	0.55	0.529~0.572	1.073
1.04.00012	NMSM	0.5-1	0.71	0.68~0.74	1.38
1.04.00013	NMSM	0.75-1.5	0.9	0.87~0.94	1.76
1.04.00014	NMSN	0.8-1.5	1	0.96~1.04	1.95
1.04.00015	NMSN	1-1.5	1.1	1.06~1.14	2.15
1.04.00016	NMSN	1-1.75	1.19	1.14~1.24	2.32
1.04.00017	NMSN	1-2	1.42	1.37~1.48	2.77
1.04.00018	NMSN	1.25-2.25	1.69	1.63~1.76	3.3
1.04.00019	NMSN	1.5-2.75	2.12	2.04~2.2	4.13

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Order Number	Item Name	Grit Size micron	Median (D50) micron	Median Tolerance micron	Upper limit (D99) micron
1.04.00020	NMSN	1.5-3	2.25	2.16~2.34	4.39
1.04.00021	NMSN	2-3	2.39	2.3~2.49	4.66
1.04.00022	NMSN	2.25-3.5	2.84	2.73~2.95	5.54
1.04.00023	NMSN	2.5-4	3.1	2.98~3.22	6.05
1.04.00024	NMSN	2.5-4.5	3.37	3.24~3.5	6.57
1.04.00025	NMSN	3-4.5	3.75	3.61~3.9	7.31
1.04.00026	NMSN	3-5	4	3.85~4.16	7.8
1.04.00027	NMSN	3-6	4.5	4.33~4.68	8.78
1.04.00028	NMSN	3.5-6	4.75	4.57~4.94	9.26
1.04.00029	NMSN	4-7	5.5	5.29~5.72	10.73
1.04.00030	NMSN	4.5-7.5	6	5.77~6.24	11.7
1.04.00031	NMSN	5-8	6.5	6.25~6.76	12.68
1.04.00032	NMSN	5.5-9	6.8	6.54~7.07	13.26
1.04.00033	NMSN	5-10	7	6.73~7.28	13.65
1.04.00034	NMSN	6-10	7.5	7.21~7.8	14.63
1.04.00035	NMSN	7-10	8.1	7.79~8.42	15.8
1.04.00036	NMSL	6-12	9	8.65~9.36	17.55
1.04.00037	NMSL	7-14	9.5	9.13~9.88	18.53
1.04.00038	NMSL	8-15	11	10.58~11.44	21.45
1.04.00039	NMSL	8-16	14	13.46~14.56	27.3
1.04.00040	NMSL	10-18	14.5	13.94~15.08	28.28
1.04.00041	NMSL	12-20	15	14.42~15.6	29.25
1.04.00042	NMSL	12-22	17.5	16.83~18.2	34.13
1.04.00043	NMSL	15-25	20	19.23~20.8	39
1.04.00044	NMSL	20-25	22	21.15~22.88	42.9
1.04.00045	NMSL	20-28	23.5	22.6~24.44	45.83
1.04.00046	NMSL	20-30	25	24.04~26	48.75
1.04.00047	NMSL	22-36	26.9	25.87~27.98	52.46
1.04.00048	NMSL	20-40	32	30.77~33.28	62.4
1.04.00049	NMSL	30-40	35	33.65~36.4	68.25
1.04.00050	NMSL	35-45	40	38.46~41.6	78

Order Number	Item Name	Grit Size micron	Median (D50) micron	Median Tolerance micron	Upper limit (D99) micron
1.04.00051	NMSL	40-50	45	43.27~46.8	87.75
1.04.00052	NMSL	36-54	45.5	43.75~47.32	88.73
1.04.00053	NMSL	40-60	55	52.88~57.2	107.25
1.04.00054	NMSL	50-70	60	57.69~62.4	117

+ Other diamond types /sizes available.

## Packing

100, 1000 or 5000 carats.

Unless specified, orders will be sent in bulk packing units.

All information is non-binding and provided for information purposes only. Subject to change without notice.