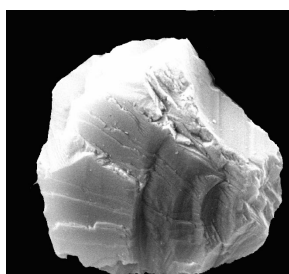


SYNDIA® SYP

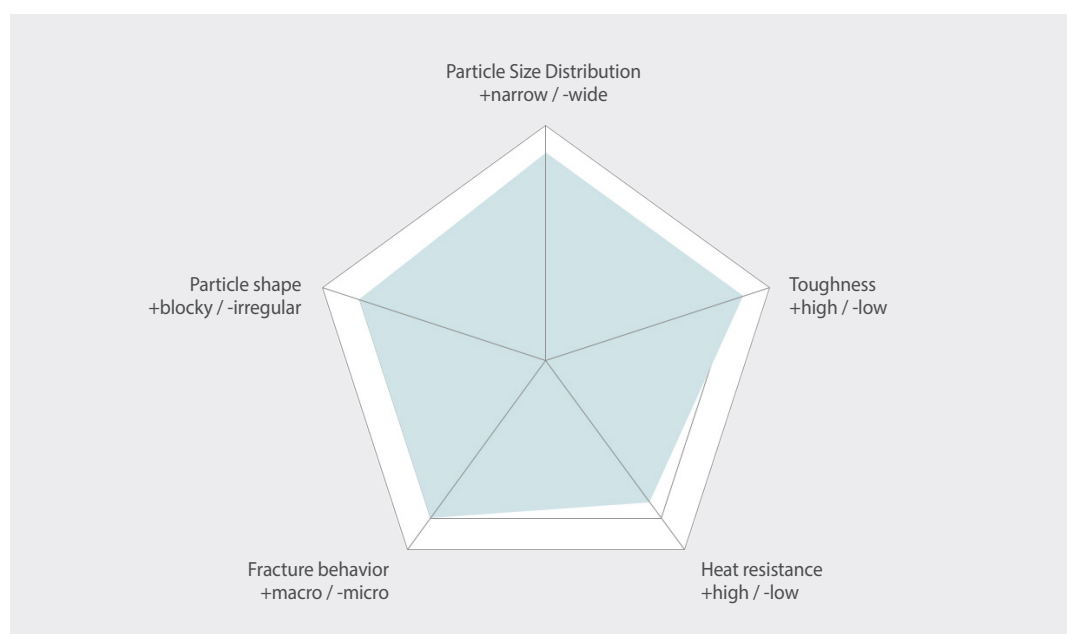
MONOCRYSTALLINE MICRON DIAMOND POWDER



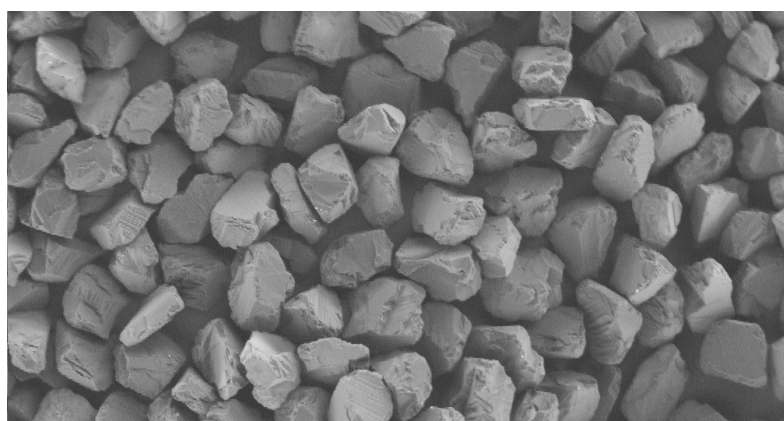
SYNDIA® SYP | PRECISION POLISHING SOLUTION

SYP has been developed for precision lapping and polishing application. It has narrow particle size distribution and blocky particle shape. Through such characteristics, SYP enables customers to achieve the highest surface quality while keeping necessary removal on work pieces. It is available down to nanometer size range in order to satisfy needs for ultrafine surface quality. SYP is also suitable for limited type of precision diamond tools. Van Moppes guarantees consistent quality by control of raw material, production process and unique inspection method.

PRODUCT CHARACTERIZATION



PROPERTIES	SYP
GRADING	precision
SYNTHESIS	HPHT
CRYSTAL STRUCTURE	monocrystalline
PARTICLE SHAPE	blocky
FRACTURING MODE	macro-fracture
IMPACT RESISTANCE	high
PURITY	> 99.9%
BONDING SYSTEMS	VI, MB, EP
DENSITY	3.52 g/cm ³



SYNDIA[®] SYP

MONOCRYSTALLINE MICRON DIAMOND POWDER

MID-POINT	SYP	MESH EQUIVALENT	FEPA EQUIVALENT
12.0	SYP 10-15	#1400	
9.5	SYP 8-12	#1500	MD10
8.0	SYP 6-10	#1800	
6.8	SYP 5.5-8	#2200	
5.7	SYP 4.5-7	#3000	MD6.3
4.8	SYP 4-6	#5000	
4.0	SYP 3-5	#6000	MD4.0
3.4	SYP 2.5-4		
3.0	SYP 2-4	#8000	
2.8	SYP 2.25-3.5		
2.4	SYP 2-3		MD2.5
2.0	SYP 1.5-2.5	#12000	MD2.0
1.7	SYP 1.25-2.25		
1.4	SYP 1-2	#13000	MD1.6
1.2	SYP 1-1.5		
1.0	SYP 0.75-1.25	#14000	MD1.0
0.7	SYP 0.5-1		
0.50	SYP 0.25-0.75	#50000	
0.35	SYP 0.25-0.5		
0.21	SYP 0-0.5	#100000	
0.18	SYP 0-0.35		
0.13	SYP 0-0.25		
0.09	SYP 0-0.2		
0.075	SYP 0-0.15		
0.05	SYP 0-0.1		
0.025	SYP 0-0.05		
0.018	SYP 0-0.03		