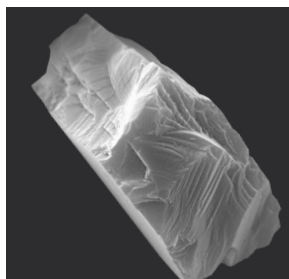


SYNDIA® SYG

MONOCRYSTALLINE MICRON DIAMOND POWDER

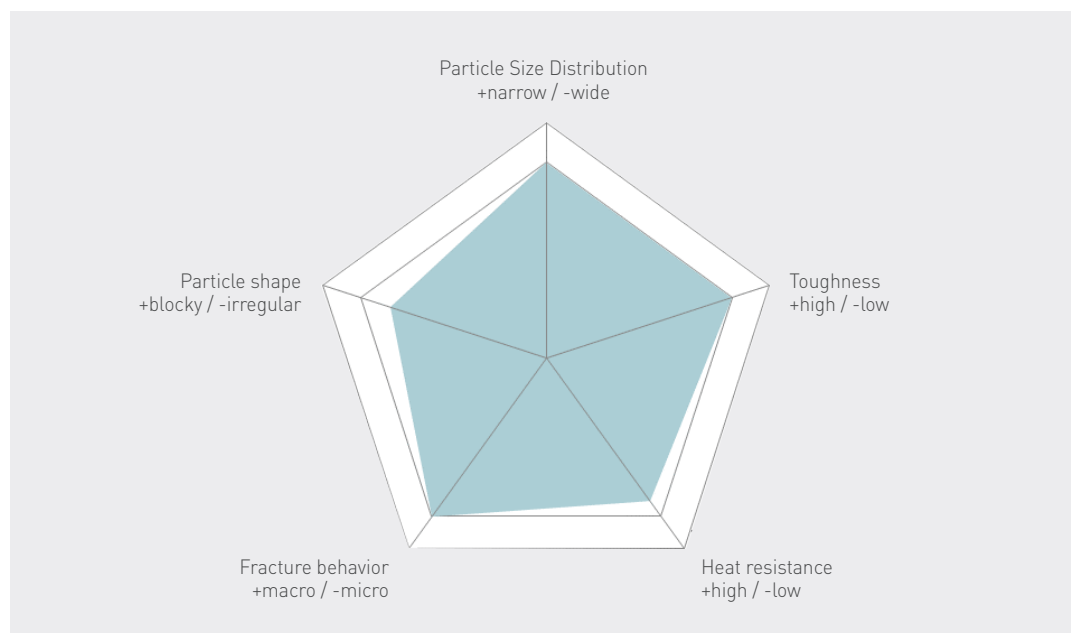


SYNDIA® SYG | BALANCED GRINDING PERFORMANCE

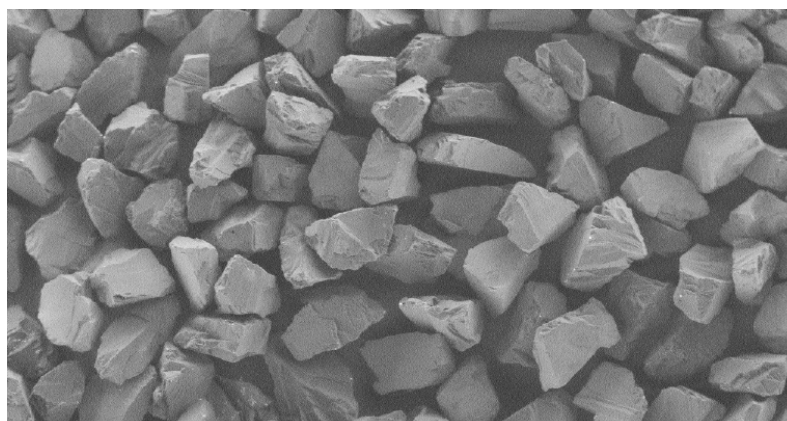
SYG has been developed for precision diamond tool makers to cover wide range of application from cutting to fine grinding. It offers perfect balance between surface quality, high removal and tool life through well controlled particle shape and size distribution. It is recommended for vitrified, metallic and electroplated bond systems.

Van Moppes guarantees consistent quality by control of raw material, production process and unique inspection method.

PRODUCT CHARACTERIZATION



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



SYNDIA® SYG

MONOCRYSTALLINE MICRON DIAMOND POWDER

MID-POINT	SYG	MESH EQUIVALENT	FEPA EQUIVALENT
92.5	SYG 70-120		
82.5	SYG 60-100		
78.0	SYG 60-90		
69.5	SYG 54-80		
61.0	SYG 45-70		
53.0	SYG 40-60		MD63
46.0	SYG 36-54	#500	
41.0	SYG 35-45		
36.0	SYG 30-40	#600	MD40
32.5	SYG 30-40F		
29.0	SYG 22-36	#700	
24.0	SYG 20-30	#800	MD25
21.0	SYG 15-30		
19.0	SYG 15-25	#1000	
16.0	SYG 12-22	#1100	MD16
14.0	SYG 10-20	#1200	
12.0	SYG 10-15	#1400	
9.50	SYG 8-12	#1500	MD10
8.00	SYG 6-10	#1800	
6.80	SYG 5.5-8	#2200	
5.70	SYG 4.5-7	#3000	MD6.3
4.80	SYG 4-6	#5000	
4.00	SYG 3-5	#6000	MD64.0
3.30	SYG 2.5-4		
3.00	SYG 2-4	#8000	
2.80	SYG 2.25-3.5		
2.40	SYG 2-3		MD2.5