

DIADUST® PM

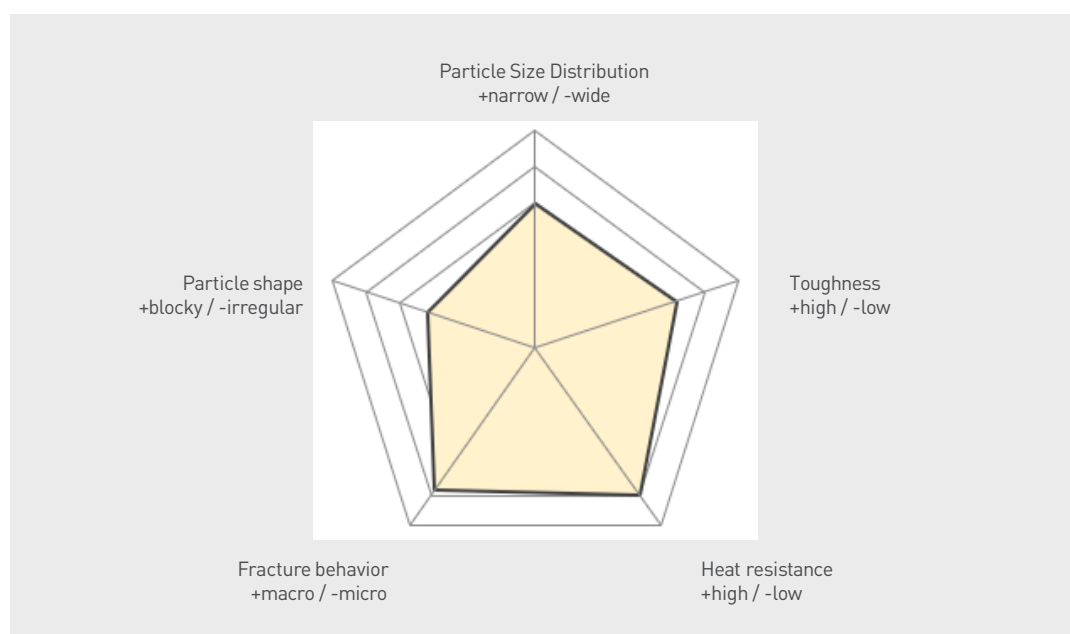
NATURAL MICRON DIAMOND POWDER



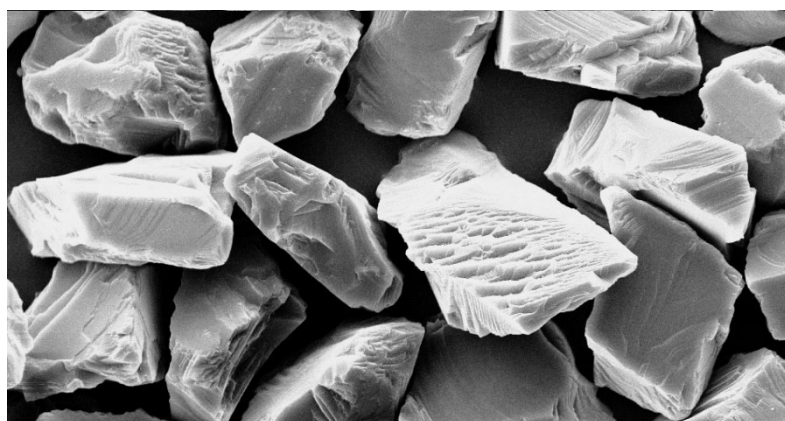
DIADUST® PM | NATURAL

PM is preferred in some applications requiring very free cutting properties, as well as for the production of some electrometallic tools and wheels. PM is also used in some polishing applications, for diamond cutting and the fine polishing of diamond drawing dies. Natural diamond offers better defined cleavage planes and fractures under less pressure to produce new, sharp cutting edges. The absence of metallic inclusions reduces its electrical conductivity. This is why natural diamond powder is the most widely used for electroplated tools.

PRODUCT CHARACTERIZATION



PROPERTIES	PM
GRADING	normal
SYNTHESIS	natural
CRYSTAL STRUCTURE	monocrystalline
PARTICLE SHAPE	irregular
FRACTURING MODE	macro-fracture
IMPACT RESISTANCE	medium
PURITY	> 98%
BONDING SYSTEMS	EP, MB
DENSITY	3.52 g/cm ³



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MID-POINT	PM
43.0	PM 30-60
36.0	PM 30-40
30.0	PM 20-40
24.0	PM 20-30
21.0	PM 15-25
14.0	PM 10-20
10.6	PM 8-15
9.50	PM 8-12
8.00	PM 6-12
8.00	PM 6-10
6.80	PM 5-10
5.75	PM 4-8
5.75	PM 4.5-7
4.80	PM 4-6
4.00	PM 3-6
3.00	PM 2-4
2.80	PM 2.25-3.5
2.38	PM 2-3
2.00	PM 1-3
1.41	PM 1-2
1.00	PM 0-2
0.71	PM 0.5-1
0.50	PM 0-1
0.35	PM 0.25-0.5
0.21	PM 0-0.5
0.13	PM 0-0.25