

SYNDUST CBN MICRON POWDERS

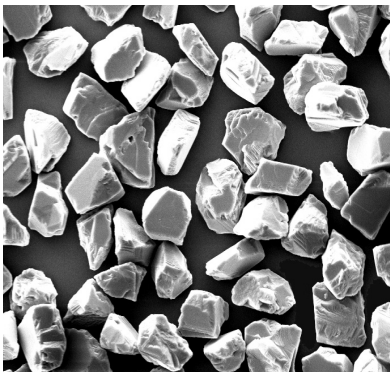
- Two CBN micron powders suitable for most standard applications on ferrous metals
- Standard size availability from stock for quick delivery
- Controlled grading quality for batch to batch consistency
- Quality guaranteed by Van Moppes ISO 9001 certification

CBN consists of crystals made from the elements of boron and nitrogen. Despite a nominally inferior hardness than diamond, CBN has the advantage of a higher thermal stability and it is compatible with ferrous metal grinding and polishing applications.

SYNDUST CBN-A

CBN-A is the standard, amber coloured, uncoated medium-tough CBN micron powder with good thermal stability, for maximum economy in electroplated and vitrified bonding systems, or for lapping and polishing applications on ferrous metals.

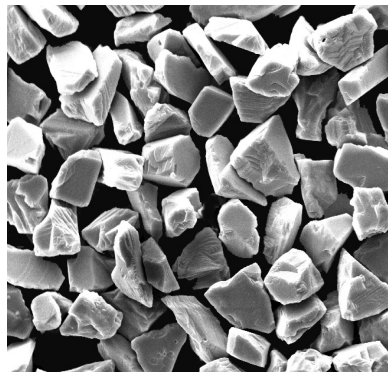
CBN-A 30-40 400X



SYNDUST CBN-B

CBN-B is a medium-tough, black coloured CBN micron powder. It is made of thermally stable, black monocrystalline CBN with macro-fracture characteristics. Its angular particle shape and long cutting edges provide excellent performance on hard tool steels, alloyed steels and super-alloys, or in demanding lapping and polishing applications.

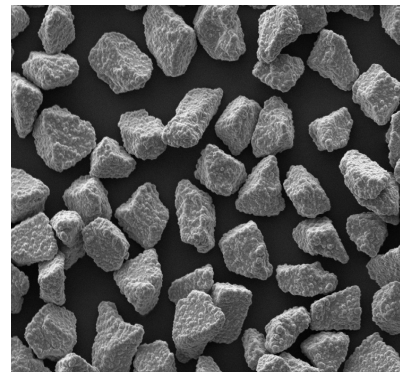
CBN-B 30-40 400X



SYNDUST CBN-B60Ni

CBN-B60Ni is the 60% nickel-coated version of CBN-B. It has excellent particle retention properties and is recommended for use in resin bonded wheels, for numerous ferrous metal wet grinding applications.

CBN-B-60Ni 30-40 400X





D50 - MEDIAN SIZE	CBN-A	CBN-B	CBN-B60Ni
46.0	CBN-A 40-50	CBN-B 40-50	CBN-B60Ni 40-50
36.0	CBN-A 30-40	CBN-B 30-40	CBN-B60Ni 30-40
29.0	CBN-A 22-36	CBN-B 22-36	CBN-B60Ni 22-36
24.0	CBN-A 20-30	CBN-B 20-30	CBN-B60Ni 20-30
19.0	CBN-A 15-25	CBN-B 15-25	CBN-B60Ni 15-25
14.0	CBN-A 10-20	CBN-B 10-20	
12.0	CBN-A 8-16	CBN-B 8-16	
8.0	CBN-A 6-12	CBN-B 6-12	
5.7	CBN-A 4-8	CBN-B 4-8	
4.0	CBN-A 3-6	CBN-B 3-6	
3.0	CBN-A 2-4	CBN-B 2-4	

PROPERTIES	CBN-A	CBN-B
GRADING	normal	normal
SYNTHESIS	HPHT	HPHT
CRYSTAL STRUCTURE	monocrystalline	monocrystalline
PARTICLE SHAPE	blocky to irregular	blocky to irregular
FRACTURING MODE	macro-fracture	macro-fracture
SURFACE STRUCTURE	angular	angular
IMPACT RESISTANCE	medium	medium
PURITY	> 98.0%	> 98.0%
BONDING SYSTEMS	EP, VI, MB	MB, EP, VI, PH, PO
DENSITY	3.48 g/cm ³	3.48 g/cm ³