



CBN Series

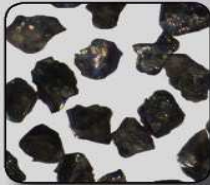


CBN Series

Black CBN for Resin-Bond and Metal-Bond Applications

LANDS Superabrasives supplies a carefully engineered CBN line offering the optimal product for resin-bond, metal-bond, vitrified bonds, and electroplated products.

BN2000



The most friable CBN crystal in the series, although relatively blocky—this product offers the highest friability in the CBN line. The BN2000 is an easily fracturing product used most often in resin-bonds where the wheel maker is looking for a combination of quick removal rate and the most economical crystal.

Available Sizes: 40/50 & 50/60, 60/80-400/500

BN2500



The staple product in the CBN series, this crystal combines high friability and sharp edge ideal for most resin-bond applications. Its high friability ensures controlled breakdown of the crystals. Strong bond retention results from its irregular shape and rough surface area.

Available Sizes: 40/50 & 50/60, 60/80-400/500

BN200V



Featuring a regular shaped but still sharp crystal which is used in both resin-bond and vitrified applications, this black crystal is recommended in more demanding applications where a tough crystal is required, especially in processing work-pieces with high steel alloys.

Available Sizes: 40/50 & 50/60, 60/80-400/500

BN3000



The toughest and most blocky crystal in the pure black CBN line although it can be used in resin-bonds—it would require a hardened resin-bond in order to get optimal tool life out of the crystal. Used primarily in vitrified and electroplating applications, it offers an extremely competitive product because of its ability to withstand the highest force.

Available Sizes: 60/80-400/500



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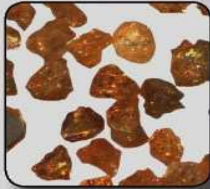


CBN Series

Amber CBN for Resin-Bond and Metal-Bond Applications

LANDS Superabrasives supplies a carefully engineered CBN line offering the optimal product for resin-bond, metal-bond, vitrified bonds, and electroplated products.

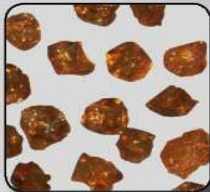
AN2000



The more friable CBN crystal in the amber series, this product features a semi-sharp product ideal for resin-bond applications. The AN2000 is most often used in resin-bonds where the wheel maker is looking for quick removal rate of softer weaker steel alloys.

Available Sizes: 40/50 & 50/60, 60/80-400/500

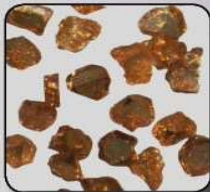
AN4000



A fully crystallized amber-red product featuring a blocky almost rounded crystal offering a higher TI level than the AN2000 product and used primarily in electroplating and metal-bond applications.

Available Sizes: 40/50 & 50/60, 60/80-400/500

AN5000



The most blocky and toughest crystal available. This crystal shines in the most vigorous applications that demand the highest grinding speeds, stock removal and impact with a toughness index 50% higher than standard CBN products. It is the ultimate choice when tool life is required.

Available Sizes: 30/40, 40/50, 50/60, 60/80-400/500





CBN Series



CBN Series

CBN for Metal-Bond and Vitrified Applications

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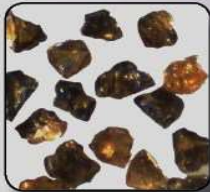
BN5000



This brown product features a sharp angular crystal shape and tends to fracture under load-pressure giving it free cutting characteristics under lower grinding power. The angular shape offers sharp edges suitable for applications demanding low pressure removal rate.

Available Sizes: 40/50 & 50/60, 60/80-400/500

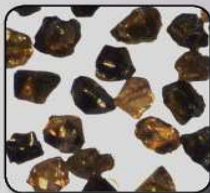
AN3000



The dark amber fully crystallized CBN is irregular in shape but offers excellent crystal strength and is a preferred product in high temperature applications both in resin-bonds and vitrified applications.

Available Sizes: 40/50 & 50/60, 60/80-400/500

AN300V



This dark amber fully crystallized CBN is more regular in shape, providing maximum crystal strength in its kind. This product is specifically sorted and tabled for use in high demanding vitrified bond applications.

Available Sizes: 40/50 & 50/60, 60/80-400/500

GN5000



This brownish gold highly crystallized material is blocky in shape and the ideal product to consider in high pressure and high temperature applications and offers benefits including high crystal strength and ability to withstand the highest temperatures and grinding power.

Available Sizes: 40/50 & 50/60, 60/80-400/500



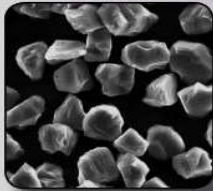
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Micronized CBN

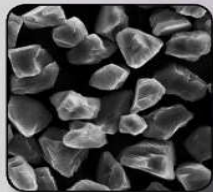
LANDS Superabrasives supplies a carefully engineered CBN line offering the optimal product for resin-bond, metal-bond, vitrified bonds, and electroplated products.



BN2600 | AN2600

This CBN product (Black | Amber) features a sharp angular crystal shape and tends to marco-fracture under load-pressure giving it free cutting characteristics under lower grinding power. The angular shape offers sharp edges suitable for applications demanding low pressure removal rate.

Available Sizes: 0-1/4 to 54-80



BN3600 | AN3600

This fully crystallized CBN product (Black | Amber) is irregular in shape but offers excellent crystal strength and is a preferred product in high temperature applications both in resin-bonds and Vitrified applications.

Available Sizes: 0-1/4 to 54-80



Natural and Synthetic Superabrasives - PDC Blanks - PCD/PCBN Tools
Specialized Diamond Tools - Process Automation - Technical Consulting



CBN Series



COATINGS / TREATMENTS

LANDS Superabrasives supplies a carefully engineered CBN line offering the optimal product for resin-bond, metal-bond, vitrified bonds, and electroplated products.

All the products in this series can be treated for use in electroplating. These treated products are then designated with the suffix "E", for example BN2000E.

Metal Coatings by Electrolysis and Electro-less coating help to improve the life of our CBN (and Diamond crystals). LANDS offers a full array of metal coatings. The coatings offer improved bond retention, an aid in thermal conductivity, and protection within the bond against thermal degradation. The nickel cladding aids in heat dissipation protecting the base so it can withstand the highest RPM speeds, grinding forces, and temperatures.

Standard 60% Nickel: Ideal for high force grinding.

Spiky 60% Nickel: Enhanced bond retention/heat dissipation ideal for tungsten-carbide grinding applications.

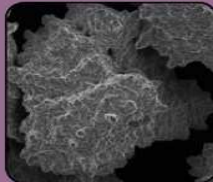
Nodular 60% Nickel: Tough Ni coating; better retention in polyimide resin-bonds.

Dual Layer 60% Ti/Ni: Ti preserves the crystal from oxidation and provides better heat dissipation between CBN crystal, Ni layer, and bond.

STANDARD 60% Ni



SPIKY 60% Ni



NODULAR 60% Ni

