



Synthetic Diamonds – Natural Diamonds – CBN Cubic Boron Nitride – Synthetic Diamond Powder for Polishing – Technical Consulting

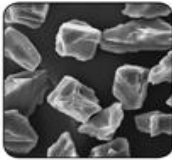
MICRON Series



Micron

LANDS Superabrasives supplies a full range of virgin synthetic micronized diamond powders. This material is graded to severe standards, ensuring a narrow size distribution and no oversize particles.

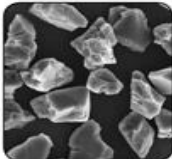
LS600F



LS600F is a uniform, blocky, friable resin-bond micron powder without slivers and irregular shapes. This material will perform to the high standards required in industry today. Excellent results in grinding, lapping, polishing of cemented carbides, special steels, glass, natural stone, hard metal dies, plastics and hard materials.

Available Sizes: 0-1/4 to 54-80; other sizes upon request

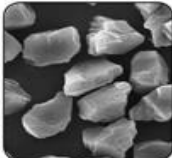
LS6BXF



LS6BXF has specifications that cover a wider range for a more aggressive crystal on the same workpiece as the LS600F. This resin-bond diamond uses a similar feedstock material as the LS600F while incorporating variations on the milling and crushing steps resulting in a distinct different product when it comes to grinding, lapping and polishing.

Available Sizes: 0-1/4 to 54-80; other sizes upon request

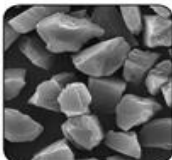
LS600T



LS600T is precision graded and features a blocky, tough, metal-bond crystal. This product was originally developed for metal-bond applications but today is used for the polishing, lapping and grinding of ultra hard materials. This micron product is used in processing diamond and PCD dies and tools, ceramics, hard alloys, precious and semi-precious stones.

Available Sizes: 0-1/4 to 54-80; other sizes upon request

LS6BXT



In applications that require wider specifications in size ranges, shape and crystal structure, the LS6BXT is the product of choice. Although the source base material is similar to that of the LS600T, variations in the milling/crushing steps of the micronizing process results in a distinctly different product when it comes to grinding, lapping and polishing.

Available Sizes: 0-1/4 to 54-80; other sizes upon request





Synthetic Diamonds – Natural Diamonds – CBN Cubic Boron Nitride – Synthetic Diamond Powder for Polishing – Technical Consulting

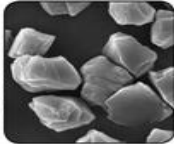
MICRON Series



Micron

LANDS Superabrasives supplies a full range of virgin synthetic micronized diamond powders. This material is graded to severe standards, ensuring a narrow size distribution, and no oversize particles.

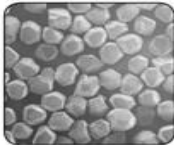
LS700T



LS700T Optical Micron is a metal-bond diamond. A superior aspect-ratio guarantees a blocky, regular shaped material that can be micronized to the narrowest size distribution and the elimination of oversized particles. It is the ultimate product for precision lapping and grinding for optical materials, glass, memory-chips, and silicon wafers.

Available Sizes: 0-1/4 to 20-40

LS800T



LS800T is a synthesized crystal (opposed to the milled crystals of the LS600 and LS700 series). This is a true crystallized powder for use in ultra precision grinding and lapping of electronics parts.

Available Sizes: 400/500, 500/600, 600/800 Mesh

LS600X

LS600X is a micron powder created by explosion-method instead of produced through milling and crushing. This product is well graded and the preferred choice for extreme applications. The LS600X reduces roughness to a nanometer/angstrom scale. Applications: Silicon, Gallium Arsenide, Sapphire, Ruby NaCl, KBr.

Available Sizes: 0-1/4 to 20-40





Synthetic Diamonds – Natural Diamonds – CBN Cubic Boron Nitride – Synthetic Diamond Powder for Polishing – Technical Consulting

MICRON Series



COATINGS / TREATMENTS

Any of the poreducts in the Micron Series can be *treated for use in electroplating*. These treated products are designated with the suffix "E", for example LS800T-E.

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, aid in thermal conductivity, and give protection within the bond against thermal degradation. The nickel cladding also helps in heat dissipation protecting the base so it can withstand the highest RPM speeds, grinding forces, and temperatures.

LANDS offers the following coatings for micron powder products, in sizes of 10 micron and up. Other sizes available upon request.

Standard Nickel (30-56-60%): Ideal for high force grinding.

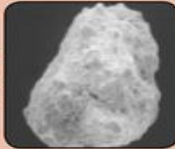
Spiky Nickel (30-56-60%): Enhanced bond retention/heat dissipation ideal for tungsten carbide grinding applications.

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

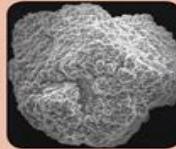
Standard Silver (50%): Dry grinding applications, low-pressure.

Standard Copper (50%): Dry grinding applications.

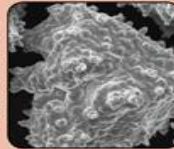
SILVER



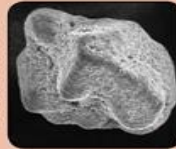
COPPER



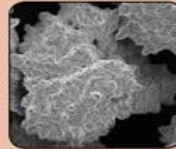
NODULAR NI



STANDARD NI



SPIKY NI



LS605F-Ag



LS605FC



LS605FN

