



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

METAL-BOND Series



Traditional

Grinding

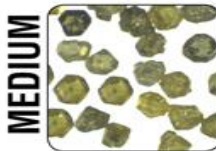
LANDS Superabrasives supplies a series of carefully engineered metal-bond synthetic diamonds. Each type has individual characteristics that provide a wide range of possible applications for the tool makers.



LS200 | LS230

Very friable metal-bond diamond powder with irregular shaped crystals. It features an excellent price/quality ratio for some specific non-demanding metal-bond applications.

Available Sizes: Mesh 30-500



LS240 | LS250 | LS260

A regular-shaped, medium-tough diamond. This semi-blocky crystal with angular shapes is considered the standard product for the widest variety of metal bond and electroplating applications.

Available Sizes: Mesh 80-500



LS270 | LS290

Premium strong and blocky crystals that will hold up under severe working conditions featuring a very low rate of fracture during the grinding process. The LS290 features the toughest crystal in the series. Its shape is (cubo)octahedral with virtually no inclusions. The LS290 is the preferred product in the most demanding applications, highest sintering temperatures and grinding pressure.

Available Sizes: Mesh 80-500





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METAL-BOND *Series*



Traditional

Sawing

LANDS Superabrasives supplies a series of carefully engineered metal-bond synthetic diamonds. Each type has individual characteristics that provide a wide range of possible applications for the tool makers.

LOW

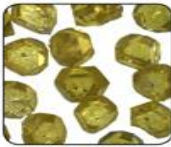


LS400 | LS430

These qualities feature blocky and mostly regular shape crystals of medium toughness, recommended for use in low to medium temperature metal-bond systems. Rougher surface of crystals results in superior bond retention in both sintered and electroplating applications.

Available Sizes: Mesh 30-80; other sizes upon request

MEDIUM

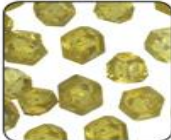


LS450 | LS460 | LS470

This saw blade range features a majority of cubo-octahedral crystals with well developed, smooth faces. The very high relative toughness of these crystals makes it ideal for extremely hard working conditions in medium and high temperature bonds. *Recommended for use in most sawing, drilling and finishing applications.*

Available Sizes: Mesh 30-80; other sizes upon request

HIGH



LS480 | LS490

These grits consist of an almost entirely cubo-octahedral shaped crystals. This crystal is designed to perform in the most demanding applications without compromising removal rate or its strength integrity. This quality consists of specially selected, tough crystals, used for grinding of more wear resistant materials and is recommended where increased power is used and continuous cutting is required to avoid diamond glazing.

Available Sizes: Mesh 30-80; other sizes upon request

