Monocrystalline Micron Diamond

Saint-Gobain micron diamond is available in a full range of types, strengths, particle sizes, shapes and surface chemistries. For more than 50 years, the industry-leading Warren Superabrasives, brand has delivered the highest quality micron diamond specifically engineered to customer needs. In addition to our standard products, we make a large number of specialty products to customer specifications for dicing, slicing, sawing, cutting, grinding, lapping and polishing applications including nickel- and copper-coated micron products.

MBP

MBP is a premium, high purity, metal bond, monocrystalline synthetic diamond powder exclusively designed for the manufacture of Polycrystalline Diamond (PDC) cutting inserts. It has extremely low intrinsic and surface impurities due to rigid processing controls with conductivity below 1 micro Siemens. MBP is thermally stable with high impact resistance and can be used in many applications requiring these characteristics.

MBP2

MBP2 is similar to MBP with the same tight controls on chemistry but it has slightly rounded particle edges that allow different packing densities. This diamond can be used as a sintering diamond for the fabrication of PDC cutting inserts and in applications calling for high strength particles where edge retention is critical.

MBMC

MBMC is the highest quality metal bond micron type available. Key applications include precision dicing, slicing, sawing, cutting, grinding, lapping and polishing where consistent particle shape and clean surfaces are required and cost is not the primary selection factor. Additional applications include high precision, electroplated and vitrified bonds particularly suited for electronics materials machining.