



TSP - Thermally Stable Polycrystalline Diamond

- Can be manufactured into a variety of sizes and shapes that can be inserted into cutting tools, drilling bits, reamers, wire drawing dies, and other wear-resistant components.
- Drill bits and reaming shells made with TSP diamonds are suitable for drilling in soft rocks with hardness below 7 degrees, such as lime rock, marble, shale, etc; and in medium to hard rocks with coarse grains, such as sedimentary rock.
- Results obtained in drilling medium to hard rocks and non-uniform abrasive formations are much better than those obtained with drill bits impregnated or surface-set with single, natural diamond crystals.
- DIDCO's TSP diamond offers high thermal stability.
- The relative wear resistance of the TSP diamond body remains the same under high temperature conditions.

[click here](#) to access more on TSP



PDC Composite - DIDCO Polycrystalline Diamond Composite

- Manufactured using top quality synthetic diamond grit, sintered together by way of extremely high temperature and pressure to create a polycrystalline diamond (PCD) layer.
- During the high temperature/pressure process the sintered diamond grit is bonded (typically) to a tungsten carbide substrate to deliver absolute quality.
- PDC Cutters: used worldwide in drill bits for oil and gas exploration. >
- Used primarily in the tooling industry for machining non-ferrous metals, composite materials, and wear resistant parts.

[click here](#) to access more on PDC



CVD Diamond - Chemical Vapor Deposition

- A commercially and economically viable alternative to natural diamond in the workplace.
- Available in Optical, Thermal and Mechanical Grades
- able to be grown in a controlled environment to desired thicknesses of up to ~2mm.
- CVD diamond wafers can also be cut into a variety of shapes and polished to achieve mirror-like finishes if required.

[click here](#) to view CVD Diamond Grades & Applications



- Synthetic Diamond Grit & Powder
- Saw Grade Quality Grit
- Grinding Quality Grit
- DEG Series: Grinding Grit
- DRS, DRX, DRV and DRV-G: Grinding Grit
- Synthetic Diamond Micron Powder
- Dm-RB for Resin Bond Systems
- Dm-MB for Metal Bond Systems

[click here](#) to view more on Synthetic Diamond & Grit Powder

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