



Diamond Lapping Slurry

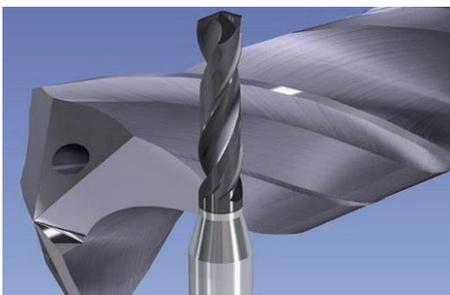
Boreas diamond grinding and polishing slurry have three different types of grinding and polishing slurry: polycrystalline, mono-crystal, and nano size. The diamond grinding liquid is prepared by fully mixing the diamond powder with dispersant liquid. It is a grinding product with excellent chemical and mechanical properties. The product has good dispersity, uniform particle size, complete specifications, and stable quality. It is widely used for grinding and polishing hard materials.

Features

- ◆ It is composed of single crystal diamond particles dispersed in the medium.
- ◆ High abrasive hardness, sharp cutting edge.

Applications

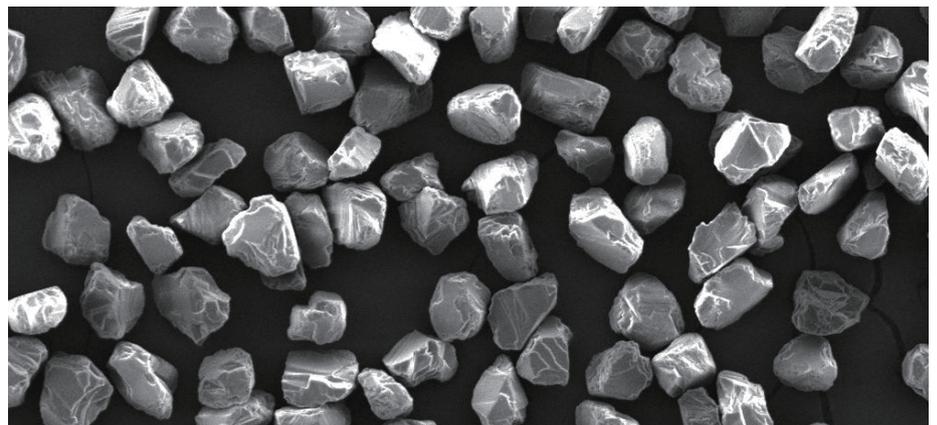
- ◆ Used for grinding and polishing some hard and brittle materials such as diamond, sapphire, zircon, optical glass and hard metal, etc.



Monocrystalline diamond lapping slurry

Monocrystalline diamond lapping slurry is our most cost-effective solution to hard lapping such as ceramic, cast iron, metal material, optical crystal, etc.

It is with good dispensability, uniformly particle size distribution, both water and oil based are available, and widely used for the hard materials lapping and processing.



Available Size

| | | | | |
|---------|---------|---------|--------|---------|
| 0.05μm | 0.08μm | 0.1μm | 0.25μm | 0.5μm |
| √ | √ | √ | √ | √ |
| 0-1μm | 1-2μm | 1-3μm | 2-4μm | 3-6μm |
| √ | √ | √ | √ | √ |
| 4-8μm | 5-10μm | 6-12μm | 8-16μm | 10-20μm |
| √ | √ | √ | √ | √ |
| 20-30μm | 30-40μm | 36-54μm | | |
| √ | √ | √ | | |

Special requirements can be customized.

√=Available

Features

- ◆ It consists of polycrystalline diamond particles dispersed in a medium.
- ◆ No wind edges are created during grinding, resulting in a good surface finish.

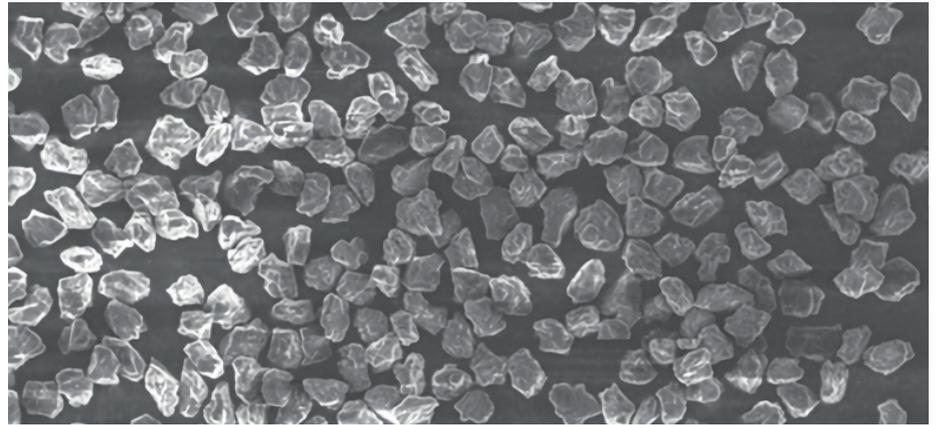
Applications

- ◆ Suitable for precision polishing of sapphire, hard disk, magnetic head and other materials.



Polycrystalline diamond lapping slurry

Polycrystalline diamond lapping slurry formulated with polycrystalline diamond powder and water/oil soluble carrier liquids to maximize cutting and polishing efficiency. Polycrystalline diamond slurry provides a high removal rate, fewer scratches, a stable grinding rate, and a uniform polishing surface. We can also customize slurry as per specific requirements by customers.



Available Size

| | | | | |
|-------------|-------------|--------------|--------------|--------------|
| 0.5 μ m | 0-1 μ m | 1-2 μ m | 1-3 μ m | 2-4 μ m |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| 3-6 μ m | 4-8 μ m | 5-10 μ m | 6-12 μ m | 8-16 μ m |
| ✓ | ✓ | ✓ | ✓ | ✓ |

Special requirements can be customized.

✓=Available

Applications

- ◆ Suitable for precision polishing of sapphire, hard disk, magnetic head and other materials.

Features

- ◆ It consists of polycrystalline diamond particles dispersed in a medium.
- ◆ No wind edges are created during grinding, resulting in a good surface finish.

Nano diamond lapping slurry

Nano diamond lapping slurry is a superior slurry for polishing, typically as a final step, providing excellent flatness and surface finish with minimal scratches.

Available Size

| | | | |
|--------------|--------------|-------------|--------------|
| 0.05 μ m | 0.08 μ m | 0.1 μ m | 0.25 μ m |
| ✓ | ✓ | ✓ | ✓ |

Special requirements can be customized.

✓=Available