DIAMOND SUSPENSIONS & PASTES

Diamond is routinely used for the preparation of most materials due it its high removal rates. Available in a wide range of micron sizes, carriers, and diamond type, MetaDi diamond products are a versatile preparation tool.

Best-In-Class Repeatability

Strict quality control for particle size and shape ensures a reproducible surface finish.

Avoid Contamination

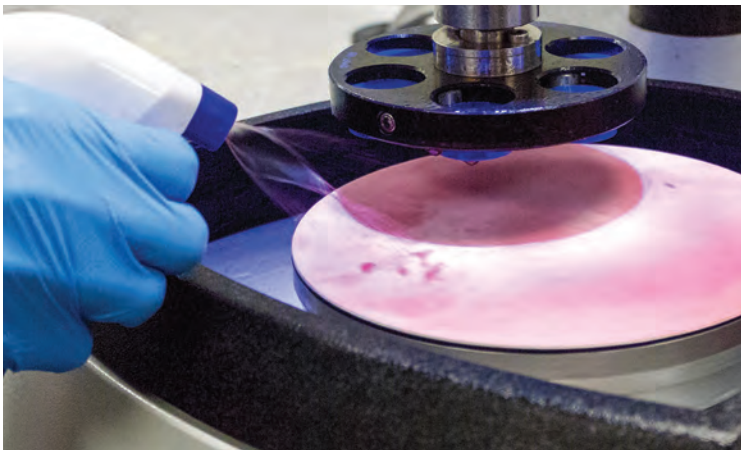
Color coding by micron size helps prevent cross contamination.

Ensure Safety & Compliance

MetaDi Supreme is nontoxic, noncombustible, and environmentally safe.

MetaDi Diamond Suspensions

- High concentration diamond is uniformly suspended for ease-of-use and consistent application.
- Apply using a spray bottle or go hands free—integrate into your grinder/polisher with the Burst Dispensing System.
- Available in polycrystalline, monocrystalline, and oil-based monocrystalline (for water sensitive materials).



MetaDi Diamond Pastes

- Materials such as very soft alloys, pure metals, or refractory metals are prone to diamond embedding, so a paste is better suited for polishing.
- Pair with a lubricant like: MetaDi Fluid or AutoMet Oil (for water sensitive materials).
- Available in natural monocrystalline, synthetic monocrystalline, and a blend of natural and synthetic polycrystalline.

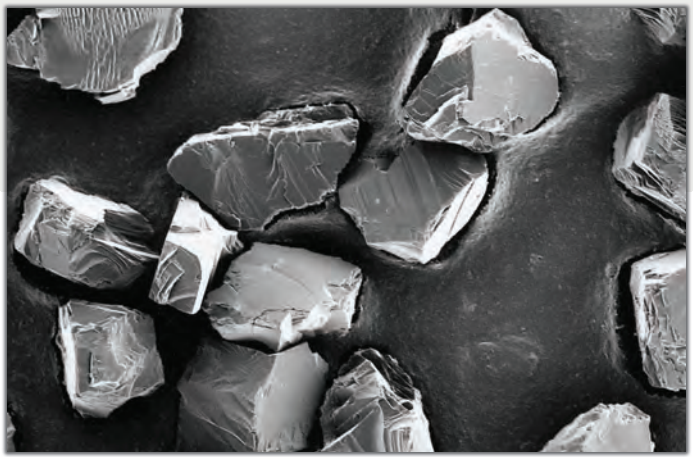
Monocrystalline vs. Polycrystalline

Material removal rate directly impacts the speed of each process step. A higher removal rate means moving on to the next step more quickly, allowing faster analysis and increasing throughput.

Because of its multi-faceted shape, polycrystalline diamond removes material faster and produces less deformation than monocrystalline.

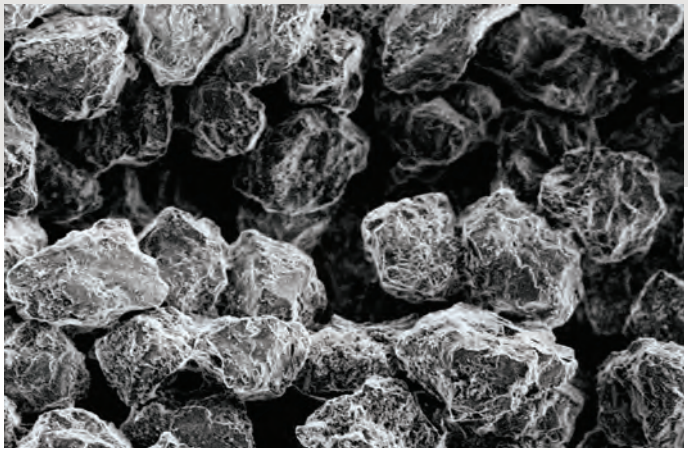
MetaDi | Monocrystalline

- Cost effective
- Sharp, blocky particles
- Best for ceramics

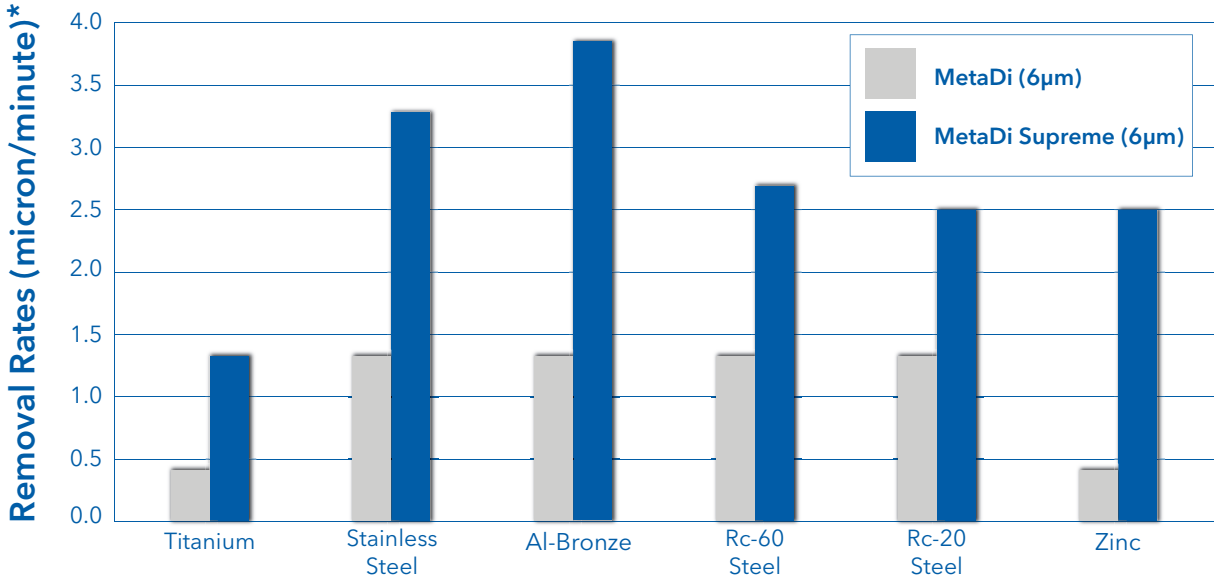


MetaDi Supreme | Polycrystalline

- Faster preparation times
- Reduced deformation
- Only small amount needed for high quality polish



Removal Rate of MetaDi vs. MetaDi Supreme



**Actual results may vary depending on material, cloth, and preparation parameters.*

POLISHING ORDERING INFO

For full product listing, refer to the Buehler Product Catalog.

MetaDi™ Diamond Suspensions

MetaDi Supreme Polycrystalline Suspension

Color	Diamond Size	8oz [0.24L]*	32oz [0.95L]	1gal [3.8L]
Charcoal	0.05µm	40-6627		
Grey	0.25µm	40-6629		40-6629-128
Blue	1µm	40-6630	40-6630-032	40-6630-128
Blue	1µm Fine	40-6630F	40-6630F-032	40-6630F-128
Green	3µm	40-6631	40-6631-032	40-6631-128
Green	3µm Fine	40-6631F	40-6631F-032	40-6631F-128
Yellow	6µm	40-6632	40-6632-032	40-6632-128
Deep Red	9µm	40-6633	40-6633-032	40-6633-128
Brown	15µm	40-6634	40-6634-032	40-6634-128
Orange	30µm	40-6635	40-6635-032	40-6635-128
Purple	45µm	40-6636		40-6636-128

MetaDi Monocrystalline Suspension

Color	Diamond Size	16oz [0.47L]*	32oz [0.95L]	1gal [3.8L]
Blue	1µm	40-6530	40-6530-032	40-6530-128
Green	3µm	40-6531	40-6531-032	40-6531-128
Yellow	6µm	40-6532	40-6532-032	40-6532-128
Deep Red	9µm	40-6533	40-6533-032	40-6533-128
Brown	15µm	40-6534	40-6534-032	40-6534-128

Dye-Free MetaDi Supreme Polycrystalline Suspension

Diamond Size	8oz [0.24L]*
1µm	40-6730
3µm	40-6731
6µm	40-6732
9µm	40-6733

MetaDi Monocrystalline Suspension Oil Based

Color	Diamond Size	16oz* [0.47L]
Blue	1µm	40-6540
Green	3µm	40-6541
Yellow	6µm	40-6542
Deep Red	9µm	40-6543
Brown	15µm	40-6544

MetaDi Combo, Suspension & Extender

Color	Diamond Size	32oz [0.95L]
Blue	1µm	40-5530-032
Green	3µm	40-5531-032
Yellow	6µm	40-5532-032
Deep Red	9µm	40-5534-032

MetaDi™ Diamond Pastes

MetaDi Ultra Polycrystalline Paste

Color	Diamond Size	20g
Blue	1µm	40-1-6301
Green	3µm	40-1-6303
Yellow	6µm	40-1-6305
Deep Red	9µm	40-1-6307
Brown	15µm	40-1-6309

This product is grey in color with color coded packaging

MetaDi Monocrystalline Paste *(Natural)*

Color	Diamond Size	5g	20g
Grey	0.25µm	40-6112	40-6102
Blue	1µm	40-6138	40-6128
Green	3µm	40-6152	40-6142
Yellow	6µm	40-6172	40-6162
Deep Red	9µm	40-6192	40-6182
Brown	15µm	40-6212	40-6202

MetaDi II Monocrystalline Paste *(Synthetic)*

Color	Diamond Size	5g	20g
Grey	0.25µm	40-6241	40-6240
Blue	1µm	40-6244	40-6243
Green	3µm	40-6247	40-6246
Yellow	6µm	40-6250	40-6249
Deep Red	9µm	40-6253	40-6252
Brown	15µm	40-6256	40-6255

**8oz and 16oz are supplied with spray nozzle*