



BUEHLER®

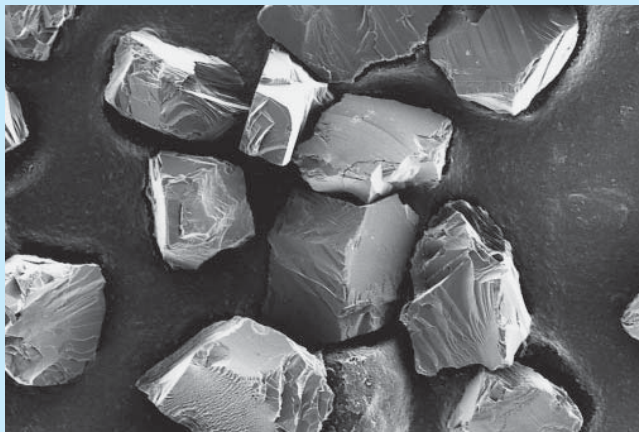
MetaDi® Diamond Suspensions

- **Superior Polishing Results**
- **Environmentally Safe Pump Dispensing - No CFC**
- **Nontoxic, Noncombustible, Water-based Formulations**
- **Suitable for Manual or Automatic Dispensing**
- **Monocrystalline and Polycrystalline Formulations**

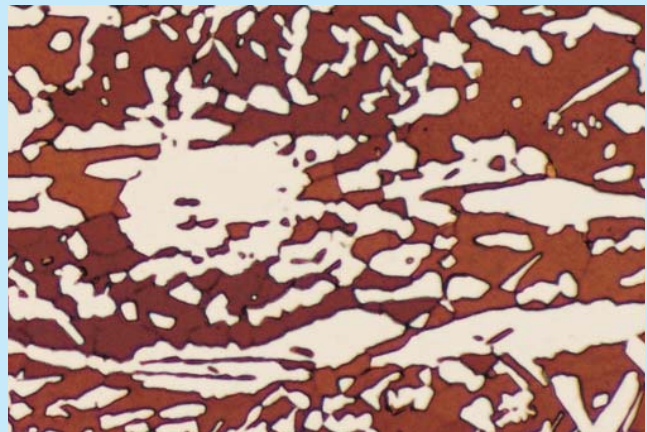
MetaDi[®] Monocrystalline Diamond Suspensions

Are environmentally safe and provide high removal rates for a wide variety of material specimen preparation applications.

- MetaDi[®] Diamond Suspensions are made of virgin, natural diamond, graded for particle size as well as shape
- MetaDi Diamond Suspensions are the industry standard for routine metallographic, petrographic, and ceramographic applications due to high removal rates and quick, easy cleaning of specimens
- Diamond particles are uniformly suspended for ease-of-use and consistent application
- The finely graded diamond abrasive particles are blocky and have sharp edges to ensure a clean and efficient cutting action
- Color-coded by micron size for ease-of-use
- The water based carrier is formulated to keep the diamond from loading up and to maintain cutting efficiency
- MetaDi Suspensions are nontoxic, noncombustible, environmentally safe and meet the US Department of Transportation standards for nonflammable shipping
- Dispensable by the Buehler[®] PriMet[®] 3000 Modular Dispensing System, and other automatic dispensing systems
- Can be used with ApexHercules[®] and polishing cloths
- Available in 1 to 15 micron diamond abrasive sizes
- Available in 1 pt (0.47ℓ) and 1 gal. (3.8ℓ) plastic bottles with adjustable pump spray nozzle



Sharp edges of monocrystalline diamonds in MetaDi[®] Diamond Suspensions ensure clean and efficient cutting action.



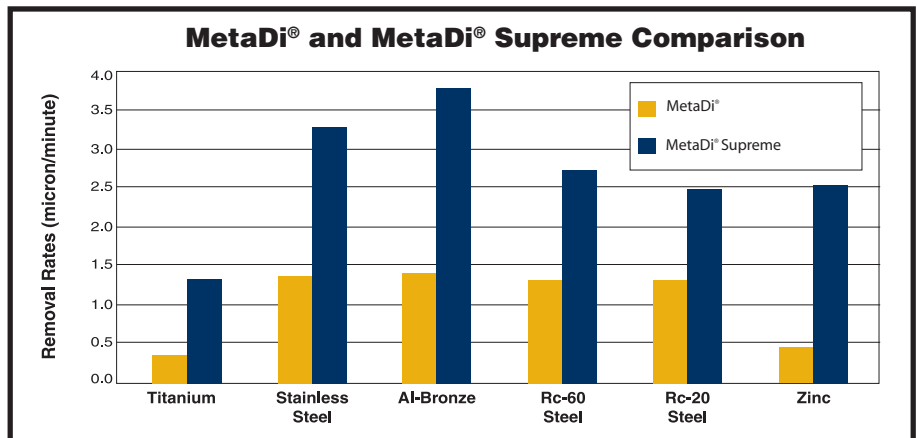
Dual phase duplex stainless steel prepared with 6 and 1 micron MetaDi[®] Diamond Suspension and polished. 400x.

MetaDi[®] Supreme Polycrystalline Diamond Suspensions

Provide highest removal rates, best surface finishes, and least subsurface deformation on metals and materials with varying compositions or hardness such as composites and ceramics.



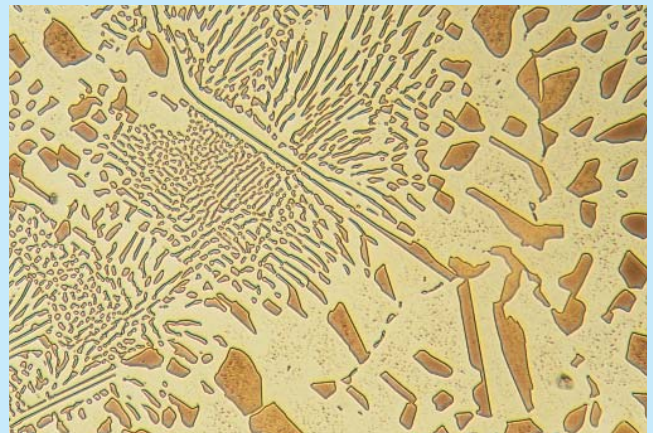
- MetaDi[®] Supreme can be used with fine grinding discs (ApexHercules H & S) and polishing cloths to reduce the number of preparation steps, reduce preparation time and improve cost per specimen
- Polycrystalline diamond abrasive is blocky in shape with a greater number of cutting facets than monocrystalline diamond
- Highest removal rates, finest surface finishes and lowest subsurface deformation
- Ideal when working with specimens composed of different materials or hardnesses
- Dispensable by PriMet 3000 Modular Dispensing System and other automatic dispensing systems
- MetaDi Supreme Diamond Suspensions are nontoxic, noncombustible, and environmentally safe
- Conveniently color-coded by micron size for ease-of-use
- Available in 0.05 to 45 micron diamond abrasive sizes
- Available in 8 oz. (0.24ℓ) plastic bottles with pump spray and 32 oz. (0.96ℓ) and 1 gal. (3.8ℓ) refills
- Also available in dye free



MetaDi[®] Supreme polycrystalline diamond removes material two times faster, or more, than MetaDi[®] monocrystalline diamond suspensions and results in less subsurface deformation.

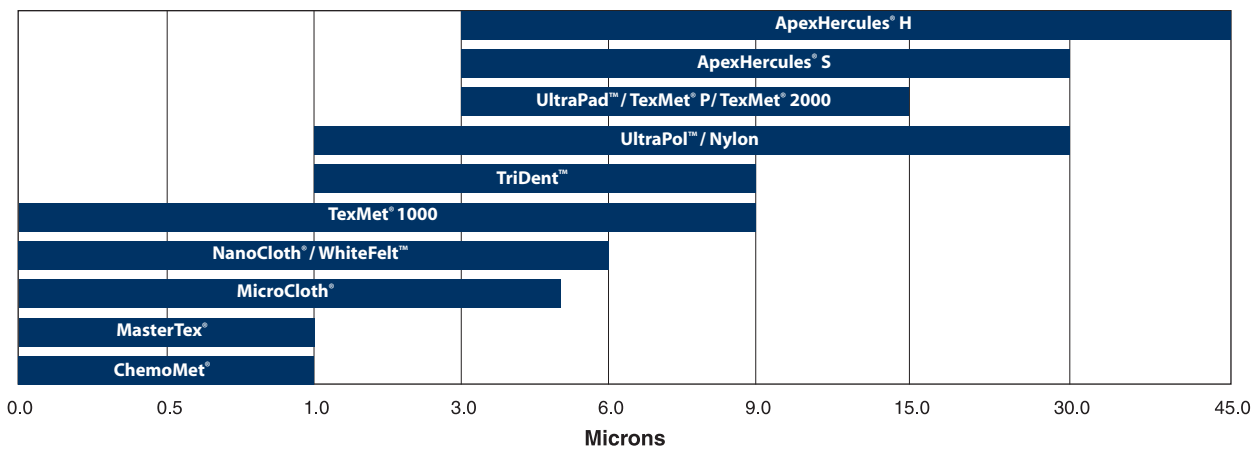


Angular, blocky-shaped polycrystalline diamonds of MetaDi[®] Supreme provide numerous cutting facets on the particle surface, resulting in less deformation.



Silver-28% copper sand cast eutectic prepared using 6, 3 and 1 micron MetaDi[®] Supreme and polished. The pure silver and copper phases which are extremely soft and prone to deformation are scratch and deformation free. 500x.

Typical Surface Selections to Abrasive Size



Ordering Information

MetaDi® Diamond Suspensions, 1 pt. (0.47ℓ)

Diamond Size	Color	Type	Catalog Number
1 micron	Blue	Water Based	40-6530
3 micron	Green	Water Based	40-6531
6 micron	Yellow	Water Based	40-6532
9 micron	Deep Red	Water Based	40-6533
15 micron	Brown	Water Based	40-6534

MetaDi® Supreme Polycrystalline Diamond Suspensions, 8 oz. (0.24ℓ)

Diamond Size	Color	Type	Catalog Number
0.05 micron	Charcoal	Water Based	40-6627
0.10 micron	Charcoal	Water Based	40-6628
0.25 micron	Gray	Water Based	40-6629
1 micron	Blue	Water Based	40-6630
3 micron	Green	Water Based	40-6631
6 micron	Yellow	Water Based	40-6632
9 micron	Deep Red	Water Based	40-6633
15 micron	Brown	Water Based	40-6634
30 micron	Orange	Water Based	40-6635
45 micron	Purple	Water Based	40-6636

MetaDi® Supreme Polycrystalline Diamond Suspensions, 32 oz. (0.96ℓ) Refill

Diamond Size	Color	Type	Catalog Number
1 micron	Blue	Water Based	40-6630-032
3 micron	Green	Water Based	40-6631-032
6 micron	Yellow	Water Based	40-6632-032
9 micron	Deep Red	Water Based	40-6633-032
15 micron	Brown	Water Based	40-6634-032

MetaDi® Supreme Dye Free Polycrystalline Diamond Suspensions, 8 oz. (0.24ℓ)

Diamond Size	Type	Catalog Number
1 micron	Water Based	40-6730
3 micron	Water Based	40-6731
6 micron	Water Based	40-6732
9 micron	Water Based	40-6733
15 micron	Water Based	40-6734

MetaDi® Supreme Dye Free Polycrystalline Diamond Suspensions, 32 oz. (0.95ℓ) Refill

Diamond Size	Type	Catalog Number
1 micron	Water Based	40-6730-032
3 micron	Water Based	40-6731-032
6 micron	Water Based	40-6732-032
9 micron	Water Based	40-6733-032
15 micron	Water Based	40-6734-032

For a complete listing of BUEHLER consumables, please refer to our Consumables Buyer's Guide. Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.

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