



BUEHLER® **METADI**® DIAMOND SUSPENSIONS

BUEHLER®

## **METADI® DIAMOND SUSPENSIONS**

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



# METADI® Diamond Suspensions

**Are monocrystalline, environmentally safe, and provide high removal rates for a wide variety of material sample preparation applications.**

- METADI Diamond Suspensions meet US. Department of Transportation Standards for non-flammable shipping
- Diamond particles are uniformly suspended for ease of use and consistent application
- Finely graded diamond abrasive particles are blocky and have sharp edges to ensure a clean and efficient cutting action
- Color-coded for ease of use
- Available in water- or oil-based configurations
- Water-based METADI Suspensions are nontoxic, noncombustible, and environmentally safe
- Water-based METADI Diamond Suspensions are preferred for routine applications due to higher removal rates and quick/easy cleaning of samples
- For materials that require added lubricity or exhibit undesirable reactions to water, environmentally safe oil-based suspensions are available
- Dispensable by the BUEHLER® METLAP® 2000 Fluid Dispenser, or other automatic dispensing systems
- Can be used with BUEHLER METLAP Platens or polishing cloths.
- Available in 0.1 to 45 micron diamond abrasive sizes
- Available in 16 oz. (0.47l) bottles with adjustable pump spray nozzle



Sharp edges of monocrystalline diamonds in METADI Diamond Suspensions ensure clean and efficient cutting action. Particle size 45 micron. SEM - 450x.



Silicon nitride prepared with METADI Diamond Suspension. As polished, DIC - 400x.

# METADI<sup>®</sup> SUPREME

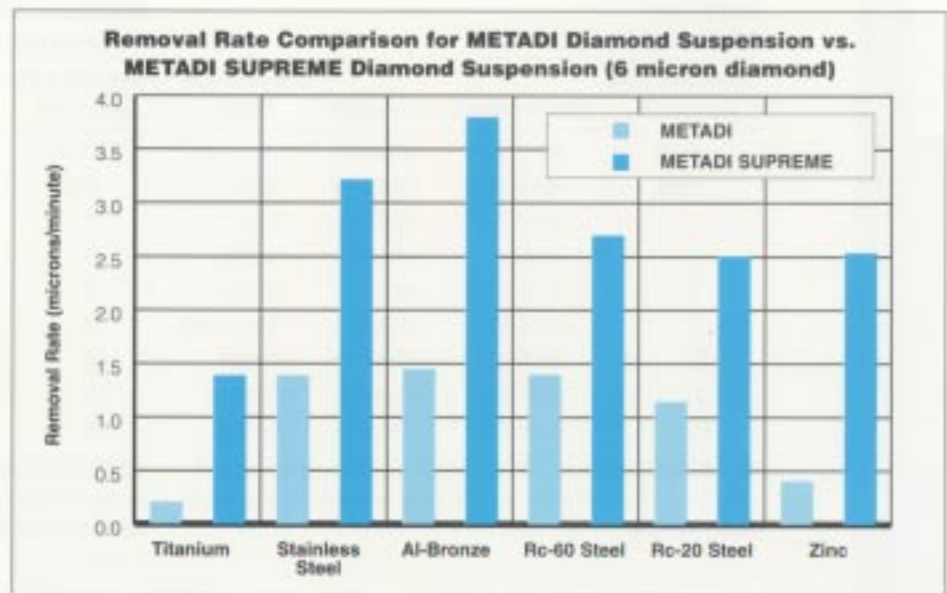
## Polycrystalline Diamond Suspensions

**NEW**



**Provide minimal subsurface deformation, high removal rates, and uniform surface finishes on materials with varying compositions or hardnesses such as composites and ceramics.**

- METADI SUPREME Diamond Suspensions are nontoxic, noncombustible, and environmentally safe
- Polycrystalline diamond abrasive is spherical in shape with a greater number of cutting facets than monocrystalline diamond
- Reduced subsurface deformation
- Finest surface finishes
- Highest removal rates
- Ideal when working with samples composed of different materials or hardnesses
- Can be used with BUEHLER METLAP Platens or polishing cloths
- Dispensable by METLAP 2000 Fluid Dispenser, or other automatic dispensing systems
- Product labels conveniently color-coded by micron size
- Optional manual spray pump nozzle
- Available in 0.1 to 45 micron diamond abrasive sizes
- Available in 8 oz. (0.24l) plastic bottles with flip-top dispensing spouts



Spherical shaped polycrystalline diamonds of METADI SUPREME provide numerous cutting facets on the particle surface. Particle size 45 micron. SEM - 450x.



Tool steel prepared with METADI SUPREME Diamond Suspension. 2% nital etch, brightfield - 400x.



METADI Diamond Suspensions can be manually dispensed using the pump spray nozzle included with each bottle.



The METLAP 2000 Fluid Dispenser provides automatic dispensing capabilities for both the METADI and METADI SUPREME Diamond Suspensions.

## Ordering Information

### METADI® Diamond Suspensions

Diamond Size (micron)	Water-based	Oil-based	Suspension Color
0.10	40-6528	40-6538	Charcoal
0.25	40-6529	40-6539	Gray
1	40-6530	40-6540	Blue
3	40-6531	40-6541	Green
6	40-6532	40-6542	Yellow
9	40-6533	40-6543	Deep Red
15	40-6534	40-6544	Brown
30	40-6535	40-6545	Orange
45	40-6536	40-6546	Purple

All METADI Diamond Suspensions are packaged in 16 oz. (0.47l) bottles and supplied with an adjustable pump spray nozzle.

### METADI® SUPREME Polycrystalline Diamond Suspensions

Diamond Size (micron)	Water-based	Label Color
0.10	40-6628	Charcoal
0.25	40-6629	Gray
1	40-6630	Blue
3	40-6631	Green
6	40-6632	Yellow
9	40-6633	Deep Red
15	40-6634	Brown
30	40-6635	Orange
45	40-6636	Purple

All METADI SUPREME Polycrystalline Diamond Suspensions are packaged in 8 oz. (0.24l) plastic bottles with a flip-top dispensing spout.

## Accessories

**No. 40-2700 METLAP® 2000 Fluid Dispenser**, complete with GRP cabinet, touch-pad front panel with LED readouts, nozzle assembly including 4 nozzles (2 for water-based and 2 for oil-based fluids), fluid lines with check valves and air line, mains power cord and operating instructions. For use with 110-115V/60Hz/1 phase or 220-240V/50Hz/1 phase mains.

**No. 40-6650 Manual Spray Pump Nozzle**, for METADI SUPREME Polycrystalline Diamond Suspensions, 8 oz. bottles.

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SECTION**

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