

标乐(Buehler)磨抛-金刚石抛光液（膏）采购指南

标乐美国出品-

DIAMOND POLISHING SUSPENSIONS & PASTES

Diamond is routinely used for the preparation of metals, ceramics and minerals due to the high removal rates. The cutting rate is even further enhanced when selecting polycrystalline diamond rather than monocrystalline. The increased number of facets on the polycrystalline structure enables efficient cutting and minimal deformation.

When working with water sensitive or soft materials that have a tendency to embed abrasive particles the paste is your best choice. However, if you are interested in a fully automated approach, diamond suspensions are required.

MetaDi® Supreme Polycrystalline Diamond Suspension

Color – Diamond Size	8oz [0.24ℓ]	32oz [0.95ℓ]	1gal [3.8ℓ] Refill
Charcoal – 0.05µm	40-6627		
Charcoal – 0.1µm	40-6628		
Grey – 0.25µm	40-6629		40-6629-128
Blue – 1µm	40-6630	40-6630-032	40-6630-128
Green – 3µm	40-6631	40-6631-032	40-6631-128
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



MetaDi® Monocrystalline Diamond Suspension

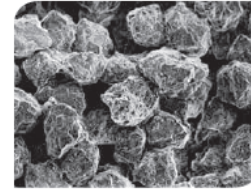


Color – Diamond Size	16oz [0.47ℓ]	32oz [0.95ℓ]	1gal [3.8ℓ]	16oz [0.47ℓ] Oil
Blue – 1µm	40-6530	40-6530-032	40-6530-128	40-6540
Green – 3µm	40-6531	40-6531-032	40-6531-128	40-6541
Yellow – 6µm	40-6532	40-6532-032	40-6532-128	40-6542
Deep Red – 9µm	40-6533	40-6533-032	40-6533-128	40-6543
Brown – 15µm	40-6534	40-6534-032	40-6534-128	40-6544

MetaDi® Ultra Polycrystalline Diamond Paste, 20g

Color – Diamond Size	Catalog Number
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® Fluid is recommended for use with all MetaDi® Pastes and most material applications*

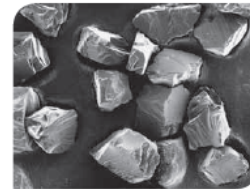


Angular, blocky-shaped polycrystalline diamond of MetaDi® Ultra provide numerous cutting facets on the particle surface, resulting in less deformation.

MetaDi® & MetaDi® II Monocrystalline Diamond Paste

Color – Diamond Size	Size	MetaDi® Heavy Concentration	MetaDi® II Medium Concentration
Grey – 0.25µm	5g	40-6112	40-6241
Grey – 0.25µm	20g	40-6102	40-6240
Blue – 1µm	5g	40-6138	40-6244
Blue – 1µm	20g	40-6128	40-6243
Green – 3µm	5g	40-6152	40-6247
Green – 3µm	20g	40-6142	40-6246
Yellow – 6µm	5g	40-6172	40-6250
Yellow – 6µm	20g	40-6162	40-6249
Deep Red – 9µm	5g	40-6192	40-6253
Deep Red – 9µm	20g	40-6182	40-6252
Brown – 15µm	5g	40-6212	40-6256
Brown – 15µm	20g	40-6202	40-6255

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Sharp edges of monocrystalline diamonds of MetaDi® Diamond Paste ensure clean and efficient cutting action.

Accessories for MetaDi®

60-3255	Applicator Bottle, 8oz [0.24ℓ]	40-8142-128	Polishing Oil, 1gal [3.8ℓ]
40-6650	Spray Pump for 8oz [0.24ℓ] bottles	60-3250-006	AutoMet® Lapping Oil, 6oz [0.18ℓ]
40-6016	MetaDi® Fluid, 16oz [0.47ℓ] (water soluble)	60-3250-128	AutoMet® Lapping Oil, 1gal [3.8ℓ]
40-6032	MetaDi® Fluid, 32oz [0.95ℓ] (water soluble)		
40-6064-085	MetaDi® Fluid, 85oz [2.5ℓ] (water soluble)		

Did You Know?

- Diamond paste products are best suited to materials prone to diamond embedding.
- Pastes are typically applied to a clean cloth by rotating the platen at approximately 50rpm and by placing the syringe tip about 2in [5cm] out from the center of the platen. Start dispensing the paste onto the cloth, resulting in a spiral pattern, if the bead is raised, too much product has been dispensed.
- Polishing Oil & AutoMet® Lapping Oil recommended for use with MetaDi® Pastes or materials sensitive to water.


7.4. MetaDi Combo Diamond Suspension plus Extender, monocrystalline

Diamond Suspension and Extender IN ONE, tight distribution of diamond grain size. *Designed only for use with dispensing systems*

in 950 mL plastic bottle (refill bottle)

1 µm	Diamond Suspension grey + Extender	40-5530-032	950 mL
3 µm	Diamond Suspension grey + Extender	40-5531-032	950 mL
6 µm	Diamond Suspension grey + Extender	40-5532-032	950 mL
9 µm	Diamond Suspension grey + Extender	40-5534-032	950 mL
15 µm	Diamond Suspension grey + Extender	40-5535-032	950 mL

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