

A guide for Petrography and applications for high quality specimens



Buehler, the Source for Materials Preparation, Testing and Analysis

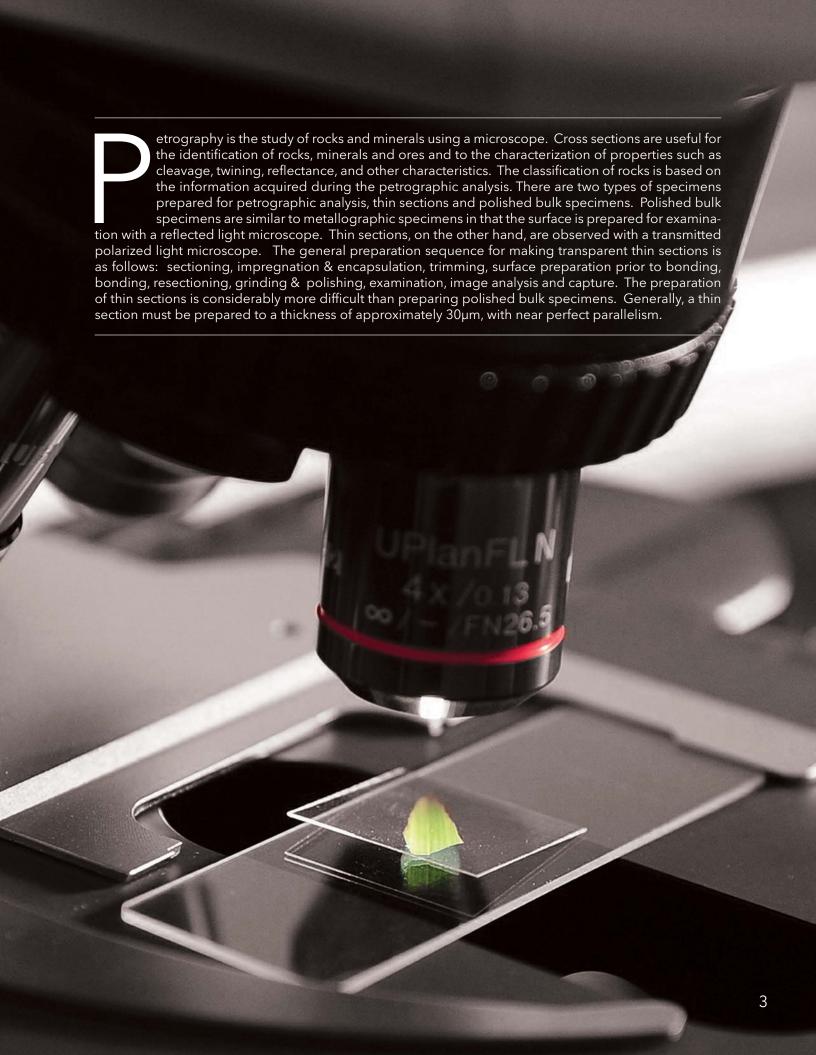
Buehler is a division of Illinois Tool Works (ITW), and is based in Lake Bluff, Illinois. ITW is a global, Fortune 200 company and global industrial manufacturer of value-added consumables and specialty equipment with related service businesses. Buehler is a premier manufacturer of scientific equipment and supplies for use in materials analysis with offices in nine countries, sales distribution in over 100 countries, and over 45 Buehler Solutions Centers.

Buehler was founded in 1936 by Swiss immigrant, Adolph I. Buehler, who saw a need for metallographic sample preparation equipment and optical inspection instruments for the steel and automotive industries in the Midwest USA. Eighty years later Buehler is well established as the world's leading supplier of materials preparation and analysis instruments, equipment, consumable supplies and application solutions.

Buehler employees and operations are committed to delivering quality and environmentally responsible products guided by ISO 9001 Quality Management Principles and ISO 14001 Environmental Managements Systems. Buehler innovates solutions and offers expert service and support throughout the materials preparation and analysis market.







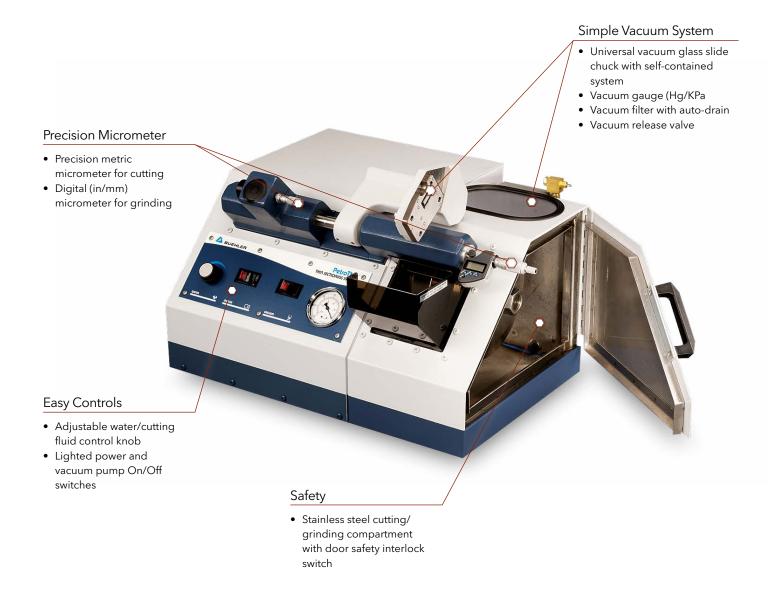
Petrography

Petrographic microscopy has played an essential role in geological and mineralogical research ever since the invention of the optical microscope. Since then, many other analysis techniques such as SEM, EDS, microprobe and x-ray diffraction microanalysis have been developed. Such methods are typically used to identify minerals and quantify a wide variety of their characteristics. The equipment described in this guide has been developed alongside the analysis techniques to ensure the production of high quality polished specimens of all types, including from minerals, clinker and refractory brick.

Buehler® offers a complete solution for preparation of thin sections, bulk mounts or as a powder such as mineral tailings. Each preparation method is dependent on the type of material and the examination method, and starts with proper sample sectioning and mounting.

PetroThin™ Thin Sectioning System

- \bullet Resections and grinds material within $\pm 5 \mu m$
- Single spindle design ensures parallelism of sample edges by eliminating the need to remove glass slide between steps





At a Glance

Specifications

- Features a universal vacuum glass slide chuck which accepts six different sized slides.
- A built-in pump provides a vacuum to insure the glass slide is held in place during preparation.
- Quick release valve allows an operator to remove a sample any time for microscopic inspection.
- Innovative, in-line filter system removes any moisture from the vacuum line during use. The filter jar is automatically drained each time the vacuum pump is turned off.
- A recirculation system (optional) is available for water sensitive materials that require

| Part Number | Voltage/Frequency |
|-------------|-------------------|
| 38-1450-160 | 115VAC, 60Hz |
| 38-1450-250 | 220VAC, 50Hz |

19in [483mm] 16in [406mm] 23.5in [597mm] 35.625in [905mm] with door open

Approx. Weight: 94 lbs [43kg]

| Voltage/Frequency | 115VAC @ 60Hz, 220VAC @ 50Hz, 1 phase | |
|--------------------|---|--|
| Motor Power | 1/3 Hp [250W] | |
| Wheel Diameter | 8in [203mm] | |
| Precision Grinding | ± 5μm | |
| Wheel Speed | 34-1450-160: 220rpm; 38-1450-250: 2100rpm | |
| Compliance | CE | |

PetroBond[™] Thin Sectioning System Consumables

| Part Number | Part Number |
|-------------|--|
| 11-4278 | Continuous Rim Diamond Blade 8 x 0.045 x 1in [203 x 1 x 25mm] |
| 11-4280 | Continuous Rim Cubic Boron Nitride Blade 8 x 0.055 x 1in [203 x 1 x 25mm] (recommended for cutting ferrous metals) |
| 40-4508 | Diamond Cup Grinding Wheel 8 x 0.25 x 1in [203 x 6 x 25mm] |
| 40-4510 | Dressing Stick 0.5 x 0.5 x 4in [13 x 13 x 102mm] |



$PetroBond^{^{\intercal}}Thin\ Section\ Bonding\ Fixture$

- Controls adhesive thickness by evenly distributing adhesive between specimen and glass slide during curing
- Holds up to 12 glass slides

Part Number

38-1490



Sectioning

The AbrasiMet cutter allows the rapid sectioning of larger blocks of material down to a size suitable for mounting to a glass slide, or encapsulation. The bronze bonded blade is durable and versatile, and is recommended for most petrographic applications.

AbrasiMet[™] 250 with PetroCut[™] Kit

Adding a PetroCut Vise Table to an AbrasiMet 250 converts the general purpose cutter into a highly competent Petrographic or Geological cutting tool.

| Part Number | Voltage/Frequency | Compatible Recirculating System (not included) |
|--------------|-------------------|--|
| 10-10106-260 | 200-240VAC, 60Hz | 10-2165-260 |
| 10-10106-460 | 440-480VAC, 60Hz | 10-2165-460 |
| 10-10106-250 | 200-240VAC, 50Hz | 10-2165-250 |
| 10-10106-400 | 380-400VAC, 50Hz | 10-2165-400 |



Approx. Weight: 300 lbs [136kg]

Part Number Accessories and Consumables

| 10-10106-000 | PetroCut Vise Table and 2 Rock Clamps |
|--------------|--|
| 10-10106-001 | Rock Clamp Kit (includes 2 Rock Clamps and posts suitable for mounting samples on PetroCut Vise Table) |
| 11-4710E | 250x1.2x32 Diamond Blade, Bronze Bonded, for Ceramics and Petrographic Samples |
| 10-3531 | Speed Vise Kit, small |
| 10-3523 | Speed Vise Kit, large |



IsoMet[™] Low Speed Cutter

Precision cutters are recommended where smaller or more delicate materials need to be sectioned. Cuts can be made very close to the area of interest with minimal damage, which can greatly reduce grinding and polishing times in subsequent stages.

- Compact cutter uses gravity feed system to provide constant feed rate
- Maximum blade size 5in
- Produces minimum deformation
- ±5µm or ±0.0001in positioning via manual micrometer
- 0-300rpm

(Includes 4in [102mm] IsoMet Blade for general sectioning, assorted weights, dressing stick, IsoCut™ Fluid, flanges and the following chucks: single saddle, irregular specimen and wafer)

| Part Number | Voltage/Frequency | Micrometer Scale |
|-------------|-------------------|------------------|
| 11-1280-160 | 115VAC, 50/60Hz | in |
| 11-1280-250 | 230VAC, 50/60Hz | um |
| 11-1280-170 | 115VAC, 50-60Hz | um |



Approx. Weight: 25 lbs [11.3kg]



IsoMet[™] 1000

- Simple to operate, gravity fed membrane panel controls
- Rotating vise for larger samples
- Optional table saw attachment
- 0.17Hp motor
- 100-975rpm

(Includes 6in [152mm] IsoMet Blade for sectioning electronic substrates, assorted weights, dressing stick, Cool 2 Fluid, flanges and the following chucks: single saddle, irregular specimen and wafer)

| Part Number | Voltage/Frequency | | |
|-------------|--------------------|--|--|
| 11-2180 | 85-264VAC, 50/60Hz | | |



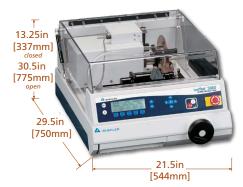
Approx. Weight: 56 lbs [25kg]

IsoMet[™] 5000

- Simple to operate, automatic precision cutter
- SmartCut™ adjusts feed rate to eliminate damage to system or sample
- Rotating vise for larger samples
- IsoMet 5000 includes cup grinding capabilities, 35 preprogrammed
- and 20 customizable methods
- Compatible with external recirculating system
- Maximum blade size 8in

(Includes 7in [178mm] IsoCut™ Blade for sectioning ferrous alloys and superalloys, 7in abrasive wheels, T-slot table, automatic dressing system, dressing stick, Cool 2 Fluid, 1 set of flanges and the following chucks: irregular specimen, single saddle and 1.25in [32mm] round specimen)

| IsoMet 5000 | Voltage/Frequency |
|--|--------------------|
| 11-2780 with internal recirculation system | 85-264VAC, 50/60Hz |
| 11-2775 with external recirculation system | 85-264VAC, 50/60Hz |



Approx. Weight: 130 lbs [56kg]

PRECISION SECTIONING CONSUMABLES

Precision Sectioning Blades for IsoMet[™] Cutters, 0.5in [12.7mm] Arbor (qty 1) [Part Number / Blade Thickness]



^{*} All Blades come with a Dressing Stick included. The Part Numbers shown in the table can be used for re-ordering the Dressing Sticks.



IsoMet[™] 5000 Accessories

Irregular Specimen Chuck

Adjusts to hold irregular shaped specimens up to 1in [25mm] in diameter



11-2686

Large Bone Chuck

Ideal for clamping bone, plastics, or other semi-rigid specimens up to 2in [50mm] in diameter



11-2494

Large, Single Saddle Chuck Holds specimens up to 2in [50mm] from 2 points



11-2285

IsoMet[™] 1000 Accessories

Glass Slide Chuck

Holds 27 x 46mm, 1 x 2in, or 1×3 in glass slides



11-2484

Wafer Chuck

Use mounting wax (40-8150) to glue specimens to wafer chuck



11-2486 1.75 x 2.5in [44 x 64mm]

Glass Slide Chuck Holds 2 x 3in glass slides



IsoMet[™] Low Speed Cutter & Accessories

Wafer Chuck

Use mounting wax, 40-8150 or 40-8145 to glue specimens to wafer chuck. 1.125 x 2in [29 x 51mm]



11-1186

Single Saddle Chuck

Holds specimens up to 0.75in [19mm] in diameter



11-1187

Vacuum Chuck for Glass Slides Holds specimens mounted to glass slides to chuck to chuck with



11-1188 27 x 46mm

vacuum force

Irregular Specimen Chuck

Adjusts to hold irregular shaped specimens up to 1in [25mm] in diameter



11-1185

IsoMet[™] Precision Cutter Accessory

Aluminum Flange Set



 11-1192
 1.38in [35mm]

 11-1191
 1.75in [44mm]

 11-2679
 2.5in [64mm]

 11-2282
 3in [76mm]

 11-2283
 4in [102mm]

 11-2284
 5in [127mm]



Bonding, Impregnations & Encapsulation

Cast N' Vac 1000 Vacuum System

- Designed to process multiple samples simply and efficiently
- Large Chamber accommodates large samples

Features

- Large vacuum chamber with space for 11, 1.5in molds
- Built in rotating turn table with unique dispensing mechanism
- The rugged vacuum pump supplies ample vacuum pull down to quickly evacuate trapped air from any porous specimen.
- Patented, high strength plastic chamber maintains vacuum throughout the impregnation period by means of a simple O-ring seal

(Includes 100 graduated paper cups, 12 SamplKups™, 100 vacuum table liners, Drierite dehydrating agent and vacuum gauge)

| Part Number | Voltage/Frequency |
|---------------|-------------------|
| 20-1382-160 | 115VAC, 60Hz |
| 20-1382-250 | 220VAC, 50Hz |
| 20-1382-250E* | 220VAC, 50Hz |

^{*}Available only in Europe and Asia



Approx. Weight: Vacuum: 11 lbs [5kg]; Pump: 28 lbs [13kg]

Accessories 20-2835 Drierite Dehydrating Agent 20-2845 Vacuum Table Liners (qty 100)

Mounting Consumables & Accessories

EpoThin[™] 2

| | Cure Time | Peak Exotherm | Shrinkage | Viscosity | Pot Life | Shore D Hardness | Reccomended Accessories |
|---|----------------------------|------------------|-----------|-----------|----------|---------------------|---|
| Transparent, very low viscosity epoxy for filling pores | 9hrs @ room temperature | <86°F [30°C] | Small | Very Low | 60min | ~78 | Cast N' Vac, Disposable Mounting Cups |

| Small Resin & Hardner | | | Large Resin & Hardner | |
|--|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| Material | Resin | Hardener | Resin | Hardener |
| EpoThin™ 2 mix ratio 2:1 by volume | 20-3440-032 32oz [0.95ℓ] | 20-3442-016 16oz [0.48ℓ] | 20-3440-128 128oz [3.8ℓ] | 20-3442-064 64oz [1.9ℓ] |

SamplKup[™] (qty 12)

- Best dimensional stability
- Suitable for use with all Buehler castable systems
- Not for use in ovens



20-9178 1in 20-8180 1.25in 20-9181 1.5in 20-9184 2in 20-9177 25mm 20-9179 30mm 20-9182 40mm 20-9183 50mm Paper Cups & Stirring Sticks

20-8177-100 5oz Paper Cups, Non-Graduated (qty 100) *
20-8176-100 8oz Plastic Cups, Graduted (qty 100)
20-8175 Wooden Stirring Sticks (qty 1000)

*Use with Cast n' Vac 1000 for pouring



Grinders-Polishers

EcoMet[™] 250

- Membrane controls
- Manual use or upgrade with AutoMet 250 Power Head for semi-automatic use
- Durable construction, well lit, ergonomic platen removal
 Retractable water hose for washdown

| Operation | Base | Power Head | Voltage/Frequency |
|----------------|---------|-------------|--------------------|
| Manual | 49-7200 | n/a | 85-264VAC, 50/60Hz |
| Semi-Automatic | 49-7250 | AutoMet 250 | 85-264VAC, 50/60Hz |



Accessories for EcoMet[™] 250 & 250 Pro Grinder-Polishers

| 40-4061 | 8in [203mm] Aluminum Platen | 60-9080 | Disposable Bowl Liner (qty 5) |
|---------|---|-------------|-----------------------------------|
| 40-0500 | 10in [254mm] Aluminum Platen | 49-6111-160 | Recirculating Tank [160VAC, 60Hz] |
| 16-2071 | 8in [203mm] Apex™ MagnoDisc with MagnoFix | 49-6111-250 | Recirculating Tank [250VAC, 50Hz] |
| 16-2571 | 10in [254mm] Apex MagnoDisc with MagnoFix | 4961-250 | Splash Guard for AutoMet 250 |

EcoMet[™] 300

- Membrane controls
- Manual use or upgrade with AutoMet[™] 250 or 300 Power
- Durable construction, well lit, ergonomic platen removal
- Retractable water hose for washdown

| Operation | Base | Power Head | Voltage/Frequency |
|----------------|---------|-------------|---------------------|
| Manual | 49-7210 | n/a | 170-264VAC, 50/60Hz |
| Semi-Automatic | 49-7260 | AutoMet 300 | 170-264VAC, 50/60Hz |
| Semi-Automatic | 49-7255 | AutoMet 250 | 170-264VAC, 50/60Hz |



Accessories for EcoMet[™] 300 & 3000 Pro Grinder-Polishers

| 49-1777 | 12in [305mm] Aluminum Platen | 49-6111-160 | Recirculating Tank [160VAC, 60Hz] |
|---------|--|-------------|-----------------------------------|
| 16-3071 | 12in [305mm] Apex™ MagnoDisc with MagnoFix | 49-6111-250 | Recirculating Tank [250VAC, 50Hz] |
| 60-9081 | Disposable Bowl Liner (atv 5) | | - |



Slide Holders & Glass Slides

| Glass Slide Size | Slide Holder | Single Force Specimen Holder | Glass Slides |
|---------------------|---|--|--|
| 1 x 3in | 60-9120 (max 3 per specimen holder) | 60-9010 for AutoMet 250 60-9060 for AutoMet 300 | 40-8002-010 (qty 1440) |
| 2 x 3in | 60-9130 (max 2 per specimen holder) | 60-9060 for AutoMet 300 | |
| 27 x 46mm | 60-9100 (max 3 per specimen holder) | 60-9010 for AutoMet 250 60-9060 for AutoMet 300 | 40-8000-001 (qty 144) 40-8000-010 (qty 1440) |
| 27 x 46mm | 30-8005 hand-held holder | - | 40-8000-001 (qty 144) 40-8000-010 (qty 1440) |
| 28 x 48mm | 60-9140 (max 3 per specimen holder) | 60-9010 for AutoMet 250 60-9060 for AutoMet 300 | 19-0501 (qty 100) |

Single Force Specimen Holders

AutoMet™ 250 Power Head For use with 60-9005 Drive Adapter.

| Part Number | Style | Size | Capacity | Additional Accessories |
|------------------------|-------|------|----------|--|
| 60-9010 AutoMet 250 | | | | 63-1022 Retaining Rings |
| 60-9060 | | 1in | 6 | 60-9120 1 x 3in Glass Slide Holder 60-9130 2 x 3in Glass Slide Holder |
| AutoMet 300 | | | | 60-9100 27 x 46mm Glass Slide Holder 60-9140 28 x 48mm Glass Slide Holder |



Target Holders

- Designed for precise material removal to specified depths
- Includes one ceramic and one steel stop ring

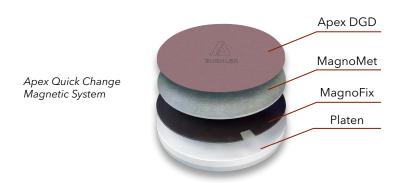
| Part Number | Description |
|-------------|---|
| 60-8100 | For 28 x 48mm glass slide (histolic holder) |
| 60-9049 | Specimen Holder for Target Holders (Drive Adapter required) |



Grinding & Polishing Consumables

Apex[™] Quick Change Magnetic System

A magnetic based system used in conjunction with either abrasive surfaces or polishing cloths. The first component, MagnoFix, is a long-life magnetic disc with pressure sensitive adhesive (PSA) backing on one side and can be used on any conventional platen. The MagnoMet or MagnoPad can be used between the MagnoFix and any PSA backed abrasive disc, polishing cloth, or other consumable of your choice.



| Туре | 8in [203mm] | 10in [254mm] | 12in [305mm] |
|---|-------------|--------------|--------------|
| Apex MagnoFix - PSA Backed Magnetic Disc (qty 1) | 16-2070 | 16-2570 | 16-3070 |
| Apex MagnoMet Metallic Plates (qty 5) | 16-2072 | 16-2572 | 16-3072 |
| Apex MagnoPad Teflon® Coated Metallic Plates (qty 5) | 16-2073 | 16-2573 | 16-3073 |

Apex[™] DGD (Diamond Grinding Discs)

- Excellent for ceramics, glass, TSC and more
- Consumable of choice for Z-axis controlled material removal
- Fixed abrasive surface providing long-wear, high removal rates and superb edge retention and flatness
- Use water only

Apex DGD (on MagnoMet Carrier) (qty 1)

| Micron | 8in [203mm] | 10in [254mm] | 12in [305mm] |
|--------|-------------|--------------|--------------|
| 165µm | 41-5008D | 41-5010D | 41-5012D |
| 125µm | 41-5108D | 41-5110D | 41-5112D |
| 70µm | 41-5208D | 41-5210D | 41-5212D |
| 45µm | 41-5308D | 41-5310D | 41-5312D |
| 30µm | 41-5408D | 41-5410D | 41-5412D |
| 15µm | 41-5508D | 41-5510D | 41-5512D |
| 9µm | 41-5608D | 41-5610D | 41-5612D |
| 6µm | 41-5708D | 41-5710D | 41-5712D |
| 3µm | 41-5808D | 41-5810D | 41-5812D |
| 0.5µm | 41-5908D | 41-5910D | 41-5912D |





Abrasive Powders

- For fine grinding on cast iron, tin or cloth-covered platens
 Mix with distilled water to desired consistency
- 5 lb [2.3kg] containers



Silicon Carbide Powder

| Grit Size ANSI [FEPA] | Micron | Part Number |
|--------------------------|--------|-----------------|
| 120 [P120] | 127µm | 40-6400-120-080 |
| 240 [P280] | 52µm | 40-6405-240-080 |
| 320 [P400] | 35µm | 40-6407-320-080 |
| 400 [P800] | 26µm | 40-6410-400-080 |
| 600 [P1200] | 15µm | 40-6415-600-080 |
| 1000 [P2000] | 10µm | 40-6418-000-080 |

Aluminum Oxide Powder

| Grit Size ANSI [FEPA] | Micron | Part Number |
|--------------------------|--------|-----------------|
| 400 [P800] | 26µm | 40-6425-400-080 |
| 600 [P1200] | 15µm | 40-6430-600-080 |
| _ | 13µm | 40-6612-125-080 |
| _ | 10µm | 40-6609-095-080 |
| _ | 5µm | 40-6605-050-080 |
| _ | 3µm | 40-6603-030-080 |

Premium Polishing Cloths

- Premium performance cloths for all material applications
 Engineered for long life and superior surface finish
- PSA Backed

| Cloth | Quantity | 8in [203mm] | 10in [254mm] | 12in [305mm] |
|-------------|----------|-------------|--------------|--------------|
| UltraPad™ | 10 | 40-7118 | 40-7120 | 40-7122 |
| UltraPol™ | 10 | 40-7448 | 40-7450 | 40-7452 |
| TexMet™ P | 5 | 40-7638 | 40-7640 | 40-7642 |
| TexMet C | 10 | 40-1108 | 40-1110 | 40-1112 |
| TriDent™ | 10 | 40-7518 | 40-7520 | 40-7522 |
| VerduTex | 10 | 40-8018 | 40-8020 | 40-8022 |
| MicroCloth™ | 10 | 40-7218 | 40-7220 | 40-7222 |
| MasterTex™ | 10 | 40-7738 | 40-7740 | 40-7742 |



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, paste is your best choice. However, if you are interested in a fully automated approach, diamond suspensions are required.

MetaDi[™] Diamond Suspensions and Pastes

MetaDi Supreme Polycrystalline Diamond Suspension

| Color | Diamond Size | 8oz [0.24ℓ] | 32oz [0.95ℓ] | 1gal [3.8ℓ] Refill |
|----------|--------------|-------------|--------------|--------------------|
| Charcoal | 0.05µm | 40-6627 | | |
| Grey | 0.25µm | 40-6629 | 40-6629-032 | 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 | 40-6636-032 | 40-6636-128 |



MetaDi Ultra Polycrystalline Diamond Paste, 20g

| Color | Diamond Size | Part 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



40-6016 MetaDi Fluid, 16oz [0.47ℓ] (water soluble) 40-6032 MetaDi Fluid, 32oz [0.95l] (water soluble) 40-6064-085 MetaDi Fluid, 85oz [2.51] (water soluble)

Final Polishing Suspension

Final polish solutions remove the final layer of surface deformation often invisible to the naked eye. Yet the removal of this deformation is essential when evaluating with high magnifications, polarized light, differential interference contrast as well as using EBSD techniques.

Material

Sol-gel alumina suspension

Characteristics

MasterPrep Alumina

• Excellent for minerals, ferrous metals, low melting point alloys, carbides, PWB's, precious metals and electronics

• 0.05µm







Microscopes

PetroVue[™] Thin Section Viewer

• Polarized light allows monitoring of thickness & uniformness of the specimen

| Part Number | Voltage/Frequency |
|-------------|-------------------|
| 30-8050-115 | 115VAC, 60Hz |
| 30-8050-220 | 220VAC, 50/60Hz |



Nikon® Eclipse LV100N POL Upright Microscope

- Upright microscope suitable for reflected and transmitted light applications ideal for petrography applications
- Available with Halogen Illumination (12V/50W) for BF, DIC, & POL
- Configured with precision circular stage and attachable XY stage
- Accomplished advanced polarizing microscopy under both reflected and transmitted illumination
- Epi Plan Fluor POL objectives provide superior chromatic aberration performance, high numerical apertures, and long working distance at all magnifications



| Part Number | Configuration | |
|-------------|---|--|
| 8746-01 | Nikon LV100N POL Upright Microscope in BF/DIC/POL - with Episcopic (reflected) and diascopic (transmitted) halogen illumination (8746-61 Epi/Dia Dual Kit required for simultaneous use) with 2 lamphouses, 50W bulbs, trinocular body with camera port (requires camera adapter), 10x eyepieces, rotating circular precision stage with attachable XY stage (35 x 25mm travel), 5-position nosepiece with 5x, 10x, 20x, and 50x Epi Plan Fluor POL objectives, flip-out condensor, NB11 and ND4 filters, ¼ wave plate, and dust cover. | |

Optional Additional Objectives for Nikon Eclipse LV100N POL Upright Microscope



NIMUE13050 - 5x NIMUE13100 - 10x NIMUE13200 - 20x

NIMUE13500 - 50x NIMUE13900 - 100x

Optional Additional Objectives for Nikon Eclipse LV100N POL Upright Microscope

8746-61 Epi/Dia Dual Kit Enables use of transmitted and reflected illumination simultaneously

• 12V/1000W Transformer

• Cable & Power Cord

Includes:



8749-11

Camera Adapter, C-Mount, 0.55x, LV-TV

Camera Adapter, C-Mount, 0.7x, LV-TV



8749-13

Camera Adapter, C-Mount, 1x, LV-TV

8749-12

Buehler Worldwide Locations





Solutions for Materials Preparation, Testing and Analysis

Authorised distributor

For customer service, call 1300-735-292 To fax an order, use 1800-067-639 To email an order, ordersau@thermofisher.com

In New Zealand:

For customer service, call 0800-933-966
To fax an order, use 0800-329-246
To email an order, ordersnz@thermofisher.com

