

Supplies for Microstructural Analysis



LECO
EMPOWERING RESULTS

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Sectioning

The goal of sectioning is to cut a representative sample from a part without causing microstructural damage. In short, a clean, straight, and cool cut. To accomplish this, metallographic sectioning is done in a water-cooled abrasive cut-off machine with a material-appropriate blade.

Abrasive Sectioning Blades

Abrasive sectioning blades are the most commonly used blades in metallurgical laboratories. Both aluminum oxide and silicon carbide provide excellent cuts at a low cost.

Abrasive Types

Aluminum Oxide (Al_2O_3) abrasive blades are very versatile and are used to section most types of ferrous materials, including cast irons, carbon steels, and stainless steels.

Silicon Carbide (SiC) blades pick up where aluminum oxide blades leave off, being the choice for sectioning non-ferrous materials like aluminum, copper, nickel, and titanium alloys.

Bond Type

LECO blades use three types of bonding materials, rubber, resin, and a rubber-resin mix. Rubber bonded blades are the traditional choice to give high quality cuts, but emit an odor that some users may find offensive. Resin blades give good cuts without the odor associated with rubber bonded blades. The rubber-resin mix bonding agent is used to obtain the benefits of each bonding material.

Reinforcement

Large sectioning blades are available with internal fiberglass reinforcement to improve lateral strength while sectioning delicate, complex, or non-homogeneous samples.

Selecting an Abrasive Sectioning Blade

Selecting an abrasive sectioning blade for your laboratory means finding a balance between cut quality and life of the blade. All abrasive blades will wear when cutting to deliver fresh abrasive particles to your sample for a good cut. Soft blades will wear more quickly than hard blades, but provide a better cut of hard material. Hard blades will cut softer material more effectively.

The abrasive sectioning blades in this catalog are organized by the Rockwell C hardness (HRC) of the material they are optimized to section most efficiently. Each has a range listed, but may be able to work outside of the range. Not all cuts are the same, so please consult your LECO sales representative to help you find the best fit for your application.

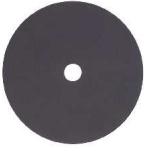
LECO Cut-Off Blade Guide

Selecting a blade size for LECO Sectioning Machines depends on the maximum size blade diameter the saw can use, combined with the diameter of the arbor hole in the center of the blade.

Instrument	Maximum Size	Arbor Hole
VC-50	5.0 in (130 mm)	0.5 in (12.7 mm)
SX100	10.0 in (250 mm)	1.25 in (25.4 mm)
MSX205	8.0 in (200 mm)	1.00 in (25.4 mm)
MSX250	12.0 in (300 mm)	1.25 in (25.4 mm)
MSX255	12.0 in (300 mm)	1.25 in (25.4 mm)
MSX305	14.0 in (350 mm)	1.25 in (25.4 mm)
MSX432	17.0 in (432 mm)	1.25 in (25.4 mm)

Sectioning

Sectioning Blades • 4 in (100 mm) diameter with 0.5 in (12.7 mm) arbor hole



BOND TYPE: RS - Resin; RB - Rubber; RR - Resin Rubber

Recommended Use	Abrasive	Thickness	Bond	Qty	Part No
General Purpose	Al ₂ O ₃	0.010 in (0.25 mm)	RB	10	811-146

Sectioning Blades • 5 in (125 mm) diameter with 0.5 in (12.7 mm) arbor hole



BOND TYPE: RS - Resin; RB - Rubber; RR - Resin Rubber

Recommended Use	Abrasive	Thickness	Bond	Qty	Part No
General Purpose	Al ₂ O ₃	0.025 in (0.61 mm)	RS	10	812-515

Sectioning Blades • 6 in (150 mm) diameter with 1.0 in (25.4 mm) arbor hole



BOND TYPE: RS - Resin; RB - Rubber; RR - Resin Rubber

Recommended Use	Abrasive	Thickness	Bond	Qty	Part No
<35 HRC	Al ₂ O ₃	0.040 in (1.00 mm)	RS	10	809-315
40-55 HRC	Al ₂ O ₃	0.040 in (1.00 mm)	RS	10	809-314
50-65 HRC	Al ₂ O ₃	0.040 in (1.00 mm)	RS	10	809-313
Nonferrous	SiC	0.040 in (1.00 mm)	RS	10	809-316

Sectioning Blades • 7 in (175 mm) diameter with 1.0 in (25.4 mm) arbor hole



BOND TYPE: RS - Resin; RB - Rubber; RR - Resin Rubber

Recommended Use	Abrasive	Thickness	Bond	Qty	Part No
<35 HRC	Al ₂ O ₃	0.024 in (0.6 mm)	RB	10	809-136
30-45 HRC	Al ₂ O ₃	0.047 in (1.2 mm)	RS	10	809-319
40-55 HRC	Al ₂ O ₃	0.047 in (1.2 mm)	RS	10	809-318
50-65 HRC	Al ₂ O ₃	0.047 in (1.2 mm)	RS	10	809-317
Nonferrous	SiC	0.047 in (1.2 mm)	RS	10	809-320

Sectioning Blades • 8 in (200 mm) diameter with 1.0 in (25.4 mm) arbor hole



BOND TYPE: RS - Resin; RB - Rubber; RR - Resin Rubber

Recommended Use	Abrasive	Thickness	Bond	Qty	Part No
<35 HRC	Al ₂ O ₃	0.024 in (0.6 mm)	RB	10	809-141
30-45 HRC	Al ₂ O ₃	0.059 in (1.5 mm)	RS	10	809-323
40-55 HRC	Al ₂ O ₃	0.059 in (1.5 mm)	RS	10	809-322
50-65 HRC	Al ₂ O ₃	0.059 in (1.5 mm)	RS	10	809-321
Nonferrous	SiC	0.059 in (1.5 mm)	RS	10	809-324

Sectioning

Sectioning Blades • 9 in (230 mm) diameter with 1.25 in (32 mm) arbor hole



BOND TYPE: RS - Resin; RB - Rubber; RR - Resin Rubber

Recommended Use	Abrasive	Thickness	Bond	Qty	Part No
<35 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RB	10	811-049-010
30-45 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RS	10	811-043-010
40-55 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RS	10	811-035-010
60+ HRC	Al ₂ O ₃	0.075 in (1.9 mm)	RR	10	810-309-010

Sectioning Blades • 10 in (250 mm) diameter with 1.25 in (32 mm) arbor hole



BOND TYPE: RS - Resin; RB - Rubber; RR - Resin Rubber

Recommended Use	Abrasive	Thickness	Bond	Construction	Qty	Part No
<35 HRC	Al ₂ O ₃	0.087 in (2.2 mm)	RS	Reinforced	10	833-101-133
<35 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RS		10	811-356-010
30-45 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RS		10	811-073-010
30-45 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RB		10	811-067-010
40-55 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RB		10	811-059-010
50-65 HRC	Al ₂ O ₃	0.070 in (1.8 mm)	RR		10	808-673
50-65 HRC	Al ₂ O ₃	0.059 in (1.5 mm)	RS		10	812-231
60+ HRC	Al ₂ O ₃	0.075 in (1.9 mm)	RR		10	810-310-010
Nonferrous	SiC	0.075 in (1.9 mm)	RR		10	810-313-010
Nonferrous	SiC	0.040 in (1.0 mm)	RB		10	811-077-010

Sectioning Blades • 12 in (300 mm) diameter with 1.25 in (32 mm) arbor hole



BOND TYPE: RS - Resin; RB - Rubber; RR - Resin Rubber

Recommended Use	Abrasive	Thickness	Bond	Qty	Part No
<35 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RS	10	811-355-010
<35 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RB	10	811-097-010
30-45 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RS	10	811-089-010
40-55 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RB	10	811-081-010
50-65 HRC	Al ₂ O ₃	0.070 in (1.8 mm)	RR	10	808-674
50-65 HRC	Al ₂ O ₃	0.070 in (1.8 mm)	RS	10	811-546
60+ HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RB	10	811-065-010
60+ HRC	Al ₂ O ₃	0.075 in (1.9 mm)	RR	10	810-311-010
Nonferrous	SiC	0.075 in (1.9 mm)	RR	10	810-314-010
Nonferrous	SiC	0.040 in (1.0 mm)	RB	10	811-102-010

Sectioning

Sectioning Blades • 14 in (350 mm) diameter with 1.25 in (32 mm) arbor hole



BOND TYPE: RS - Resin; RB - Rubber; RR - Resin Rubber

Recommended Use	Abrasive	Thickness	Bond	Construction	Qty	Part No
<35 HRC	Al ₂ O ₃	0.090 in (2.3 mm)	RB		10	811-977-010
<35 HRC	Al ₂ O ₃	0.090 in (2.3 mm)	RB		10	811-978-010
30-45 HRC	Al ₂ O ₃	0.090 in (2.3 mm)	RB		10	811-976-010
30-45 HRC	Al ₂ O ₃	0.098 in (2.5 mm)	RS		10	809-347
30-45 HRC	Al ₂ O ₃	0.098 in (2.5 mm)	RS	Reinforced	10	809-326
40-55 HRC	Al ₂ O ₃	0.062 in (1.6 mm)	RB		10	811-975-010
50-65 HRC	Al ₂ O ₃	0.090 in (2.3 mm)	RS		10	812-232
50-65 HRC	Al ₂ O ₃	0.090 in (2.3 mm)	RR		10	808-675
50-65 HRC	Al ₂ O ₃	0.098 in (2.5 mm)	RS		10	809-346
50-65 HRC	Al ₂ O ₃	0.098 in (2.5 mm)	RS	Reinforced	10	809-325
Nonferrous	SiC	0.098 in (2.5 mm)	RS		10	809-349
Nonferrous	SiC	0.098 in (2.5 mm)	RS	Reinforced	10	809-328

Sectioning Blades • 17 in (432 mm) diameter with 1.25 in (32 mm) arbor hole



BOND TYPE: RS - Resin; RB - Rubber; RR - Resin Rubber

Recommended Use	Abrasive	Thickness	Bond	Construction	Qty	Part No
<35 HRC	Al ₂ O ₃	0.118 in (3.00 mm)	RS		10	809-356
<35 HRC	Al ₂ O ₃	0.118 in (3.00 mm)	RS	Reinforced	10	809-335
30-45 HRC	Al ₂ O ₃	0.118 in (3.00 mm)	RS		10	809-355
30-45 HRC	Al ₂ O ₃	0.118 in (3.00 mm)	RS	Reinforced	10	809-334
50-65 HRC	Al ₂ O ₃	0.118 in (3.00 mm)	RB		10	809-354
50-65 HRC	Al ₂ O ₃	0.118 in (3.00 mm)	RB	Reinforced	10	809-333
Nonferrous	SiC	0.118 in (3.00 mm)	RS		10	809-357
Nonferrous	SiC	0.118 in (3.00 mm)	RS	Reinforced	10	809-336

Cubic Boron Nitride (CBN) Resin Bonded Sectioning Blades



Recommended for very hard ferrous materials (e.g. tool steels), these bonded blades are composed of a metal core and outer rim. The rim consists of a resin mixture with abrasives cured under high temperatures and pressure to bond this material together. These blades offer long life and durability while the resin bonding creates a cool and straight cut with a superior finish.

Size	Arbor Hole	Thickness	Qty	Part No
8 in (200 mm)	1.00 in (25.4 mm)	0.047 in (1.2 mm)	1	809-443
10 in (250 mm)	1.25 in (32 mm)	0.047 in (1.2 mm)	1	809-444
12 in (300 mm)	1.25 in (32 mm)	0.059 in (1.5 mm)	1	809-446
14 in (350 mm)	1.25 in (32 mm)	0.080 in (2.0 mm)	1	809-445

Sectioning

Diamond Blades



Recommended for Cermets/Ceramics

Size	Arbor Hole	Thickness	Qty	Part No
4 in (100 mm)	0.5 in (12.7 mm)	0.012 in (0.30 mm)	1	801-137
5 in (125 mm)	0.5 in (12.7 mm)	0.014 in (0.36 mm)	1	801-136
5 in (125 mm)	0.5 in (12.7 mm)	0.025 in (0.64 mm)	1	802-439
7 in (175 mm)	1.0 in (25.4 mm)	0.024 in (0.6 mm)	1	809-150
8 in (200 mm)	1.0 in (25.4 mm)	0.025 in (0.64 mm)	1	833-101-121
9 in (230 mm)	1.25 in (32 mm)	0.050 in (1.3 mm)	1	812-535
10 in (250 mm)	1.25 in (32 mm)	0.050 in (1.3 mm)	1	812-536
12 in (300 mm)	1.25 in (32 mm)	0.050 in (1.3 mm)	1	812-537
14 in (350 mm)	1.25 in (32 mm)	0.085 in (2.2 mm)	1	812-538

Rust Inhibitors



Description	Pkg Size	Part No
Tech Cool SYN, Neutral pH, Microbial Growth Control; 25:1 Ratio	1 quart (946 mL)	812-542
Tech Cool SYN, Neutral pH, Microbial Growth Control; 25:1 Ratio	1 gallon (3.78 L)	812-541
Tech Cool SYN, Neutral pH, Microbial Growth Control; 25:1 Ratio	5 gallon (19 L)	812-540

Accessories



Description	Pkg Size	Qty	Part No
Back Vise Plate for sectioning small samples when using cam-lock vises		1	809-165
Front Vise Plate for sectioning small samples when using cam-lock vises		1	809-164
Clamping Kit for Vises		1	807-597
Dressing Stick for 4 in or 5 in diamond blades		1	801-724
Filter Bag Replacements (MSX-250/255/300)		10	811-651-123
Filter Sheet (MSX305-Series)		1	809-545-131
Filter Sheet (MSX432-Series)		10	809-345-892
Precision Diamond Saw Cutting Oil	1 pint (473 mL)	1	811-022
Precision Diamond Saw Cutting Oil	1 quart (946 mL)	1	811-023
Precision Diamond Saw Cutting Oil	1 gallon (3.78 L)	1	811-024
Spindle and Table Grease for MSX-Series Sectioning Machines	14.5 oz (411 g)		812-431
Blotters (Card Stock Paper Spacers) may be used between the sectioning blade and each sectioning saw flange to act as both a spacer and a cushion. Please consult ANSI B 7.1 for details concerning their use. Free upon request.	Fits 32 mm Arbor Hole		168-097

Mounting Supplies - Compression

Bakelite Thermosetting Powder



Standard, all purpose mounting media

Color	Pkg Size	Part No
Black	1 lb (0.454 kg)	811-110
Black	5 lb (2.27 kg)	811-111
Black	20 lb (9.07 kg)	812-122
Black	275 lb drum (125 kg)	811-111-275
Red	1 lb (0.454 kg)	811-117
Red	5 lb (2.27 kg)	811-118
Red	50 lb (23 kg)	811-651-391
Red	250 lb drum (113 kg)	811-153-250
Green	1 lb (0.454 kg)	811-122
Green	5 lb (2.27 kg)	811-123
Green	250 lb drum (113 kg)	811-154-110
Mottled (Green/Brown)	5 lb (2.27 kg)	811-128

Epoxy Thermosetting Powder



Best edge retention media for use with mounting presses

Description	Color	Pkg Size	Part No
Glass Filler	Black	1 lb (0.454 kg)	812-235
Glass Filler	Black	5 lb (2.27 kg)	812-238
Glass Filler Fine Grain	Black	5 lb (2.27 kg)	812-241
Glass Filler	Green	5 lb (2.27 kg)	811-141
Mineral Filler	Black	5 lb (2.27 kg)	811-645

Conductotherm 3000 Thermosetting Powder



Conductive media for use with electron microscopy and electrolytic polishing and etching

Description	Pkg Size	Part No
Black Graphite/Polymer; Conductive	2.2 lb (1000 g)	812-233

Diallyl Phthalate Thermosetting Powder



Very good edge retention; Copper-filled media for electron microscopy and electrolytic polishing and etching

Description	Color	Pkg Size	Part No
Mineral Filler	Blue	1 lb (0.454 kg)	811-134
Mineral Filler	Blue	5 lb (2.27 kg)	811-135
Mineral Filler	Blue	50 lb (22.7 kg)	811-633
Glass Filler	Blue	5 lb (2.27 kg)	811-137
Glass Filler	Blue	50 lb (22.7 kg)	811-277
Copper Filler; Conductive	Copper	1 lb (0.454 kg)	811-138
Copper Filler; Conductive	Copper	5 lb (2.27 kg)	811-139

Mounting Supplies - Compression

Lucite Thermoplastic Powder



Cures transparent to see sample in mount

Color	Pkg Size	Part No
Clear	1 lb (0.454 kg)	811-132
Clear	5 lb (2.27 kg)	811-133
Clear	50 lb (22.7 kg)	811-625

Preforms • Thermosetting



Compressed Bakelite to avoid the mess of traditional mounting materials, and to create mounts of a consistent height

Size	Color	Qty	Part No
1.0 in	Black	100	811-301
1.25 in	Black	100	811-305
1.25 in	Red	100	811-317
1.25 in	Green	100	811-329
1.5 in	Black	100	811-309
1.5 in	Red	100	811-321
1.5 in	Green	100	811-333
2.0 in	Black	100	811-316

Accessories



Description	Pkg Size	Qty	Part No
Carnauba Wax Mold Release	16 oz (454 g)	1	811-651-460-HAZ
Silicone Spray Mold Release	12 oz can	1	811-655-879-HAZ
Release Agent - (similar to paste wax)	32 oz (946 mL)	1	811-269-HAZ
Replacement Carbide Point (for engraver)		1	804-099
Cotton Gloves (fit either hand); pair		1	800-635
Electric Engraver for marking samples		1	804-191

Mounting Supplies - Castable

LECOSET 100 Kits/Acrylic

Cure Time: (Air or Pressure Vessel) 12 to 15 minutes
Peak Cure Temperature: 190 °F to 210 °F (88 °C to 99 °C)
Edge Retention: (Air Cure) Fair (Pressure Vessel) Good
Color: (Air Cure) Opaque White (Pressure Vessel) Transparent (Clear)



Description	Resin	Hardener	Qty	Part No
Small Kit	2.2 lb (1000 g) Powder (812-125)	16.9 oz (500 mL) Liquid (812-123-HAZ)	1	812-129-HAZ
Medium Kit	4.4 lb (2000 g) Powder (812-126)	33.8 oz (1000 mL) Liquid (812-124-HAZ)	1	812-130-HAZ
Extra Large Kit	13.2 lb (6000 g) Powder (812-128)	101.4 oz (3 L) Liquid; (three pkg of 812-124-HAZ)	1	812-132-HAZ

LECOSET 7008 Kits/Acrylic

Cure Time: (Air) 10 to 12 minutes (Pressure Vessel) 10 minutes
Peak Cure Temperature: 190 °F to 210 °F (88 °C to 99 °C)
Edge Retention: (Air Cure) Fair (Pressure Vessel) Good
Color: (Air Cure) Transparent (Pressure Vessel) Transparent (Clear)



Description	Resin	Hardener	Qty	Part No
Medium Kit	2.2 lb (1 kg) Powder (813-099)	16.9 oz (500 mL) Liquid (813-113-HAZ)	1	813-115-HAZ
Large Kit	4.4 lb (2 kg) Powder (Two 813-099)	33.8 oz (1 L) Liquid (813-114-HAZ)	1	813-116-HAZ

Long-Cure Epoxy Kits

Cure Time: (Air) 8 to 12 hours
Working Time: 30 to 60 minutes
Peak Cure Temperature: 165 °F to 175 °F (74 °C to 79 °C)
Edge Retention: Excellent
Color: Transparent (Clear)
Optional Oven Cure Temperature/Time: 150 °F to 180 °F (65 °C to 82 °C) 30 to 60 minutes
Applicable for vacuum cure



Description	Resin	Hardener	Qty	Part No
Small Kit	2 lb (907 g) Liquid (811-563-101)	4.7 oz (133 g) (812-518)	1	812-522
Large Kit	8 lb (3629 g) Liquid (811-563-103)	1 lb 2 oz (508 g) (812-519)	1	812-523

Mounting Supplies - Castable

Quick-Cure Epoxy Kits

Cure Time: (Air) 2 to 3 hours

Peak Cure Temperature: 180 °F to 200 °F (82 °C to 93 °C)

Edge Retention: Excellent

Color: Transparent (Clear)

Not applicable for vacuum cure



Description	Resin	Hardener	Qty	Part No
Small Kit	2 lb (907 g) 811-563-105	6.4 oz (182 g) 812-520	1	812-524
Large Kit	8 lb (3269 g) 811-563-107	1 lb 10 oz (737 g) 812-521	1	812-525

LECOSET 7000 Kits/Polyester

Cure Time: (Air) 6 to 10 minutes

Peak Cure Temperature: 190 °F to 210 °F (88° C to 99 °C)

Edge Retention: Excellent

Color: Opaque White

System: 3 parts



Description	Resin	Liquid 1	Liquid 2	Qty	Part No
Medium Kit	1 lb 10 oz Powder (750 g) (813-086)	16.9 oz (500 mL) (813-088-HAZ)	8.5 oz (250 mL) (813-087-HAZ)	1	813-005-HAZ
Large Kit	3 lb 5 oz Powder (1500 g)	33.8 oz. (1000 mL)	16.9 oz (500 mL)	1	813-056-HAZ

Castolite Kits/Polyester

Cure Time: (Air) 4 to 8 hours

Peak Cure Temperature: 170 °F to 190 °F (77 °C to 88 °C)

System: 2 parts

Edge Retention: Good

Color: Transparent (Clear)

Optional Oven Cure (Temperature/Time): 150 °F to 180 °F (65 °C to 82 °C) 20 to 30 minutes



Description	Resin	Hardener	Qty	Part No
Medium Kit	2.25 lb (1.02 kg.) 811-651-513-HAZ	0.50 oz (14.8 mL) 811-193-HAZ	1	811-651-514-HAZ
Large Kit	9 lb (4.1 kg) 811-651-516-HAZ	2 oz (59.1 mL) 811-194-HAZ	1	811-651-517-HAZ

Mounting Supplies - Miscellaneous

Ring Molds • Phenolic



Size	Qty	Part No
1.00 in (25 mm) OD	100	811-221
1.25 in (32 mm) OD	100	811-225
1.50 in (38 mm) OD	100	811-229
2.00 in (51 mm) OD	100	811-223

Silicone Rubber Molds



Size	Qty	Part No
25 mm (0.98 in) Round	5	811-651-230
30 mm (1.18 in) Round	5	811-651-231
32 mm (1.26 in) Round	5	811-651-232
40 mm (1.57 in) Round	5	811-651-233
50 mm (1.97 in) Round	5	811-651-234
25, 30, 32, 40, 50 mm Round	5	811-651-235
70 mm x 30 mm Rectangle (2.76 in x 1.18 in)	5	811-651-236
100 mm x 42 mm Rectangle (3.94 in x 1.65 in)	5	811-651-237
1.25 in Round (32 mm)	5	811-651-340
1.50 in Round (38 mm)	5	811-651-341

Mold Cups • Polypropylene



Size	Color	Qty	Part No
1.00 in ID (25 mm)	Blue	12	810-990-012
1.25 in ID (32 mm)	Blue	12	810-991-012
1.50 in ID (38 mm)	Blue	12	810-992-012
25 mm ID (0.98 in)	Blue	12	813-018-012
30 mm ID (1.18 in)	Blue	12	813-019-012
40 mm ID (1.57 in)	Blue	12	813-020-012

Accessories



Description	Qty	Part No
Sample Clips (stainless steel)	100	810-485
Sample Clips (plastic/color coded)	100	810-815-310
Protective Specimen Caps 1.00 in ID	25	811-045
Protective Specimen Caps 1.25 in ID	25	811-046
Protective Specimen Caps 1.50 in ID	25	811-047
Protective Specimen Caps 2.00 in ID	25	811-655-896
Graduated Paper Cups 3.5 oz. (100 ml)	100	811-275
Graduated Plastic Mixing Cups 10 oz. (296 ml)	100	811-279
Wooden Spatulas	500	813-090
Mixing Kit including: 20 Paper Cups, 20 Wooden Spatulas, 1 Spoon, 12 ea. Mold Cups—1 in (25 mm) diameter, 12 ea. Mold Cups—1.25 in (32 mm) diameter	1	813-025
Storage Cabinet	1	841-100

LECO offers an extensive line of grinding discs, rolls, sheets, and belts to meet the needs of your laboratory.

Silicon Carbide is the economical choice for grinding applications in laboratories for the most common materials, including aluminum, copper, steel, and cast iron. Silicon carbide products are manufactured to orient the abrasive particles upright on the surface, making for an aggressive grinding process. 1200 Grit Slurry Coat products are manufacture for a less aggressive grinding process, and are excellent for a final grind or pre-polish step.

Zirconium Oxide and **Aluminum Oxide** are used for specialty applications such as spectrographic sample preparation or for increased material removal rates.

Diamond grinding discs are ideal for hard or abrasion resistant materials such as cermets, ceramics, and some tool steels.

LECO Grit Comparison Guide

LECO uses the ANSI designation for abrasive products from 50 to 1,200 grit. The guide below can be used as a reference when comparing the abrasive particle size between ANSI and FEPA standards.

ANSI DESIGNATION (USA)	FEPA DESIGNATION (EUROPE)	AVERAGE PARTICLE SIZE IN MICRONS	ANSI DESIGNATION (USA)	FEPA DESIGNATION (EUROPE)	AVERAGE PARTICLE SIZE IN MICRONS
—	P24	740	—	P360	41
24	—	715	320	—	36
30	—	638	—	P400	35
—	P30	622	—	P500	30
36	—	535	360	—	29
—	P36	524	—	P600	26
40	—	428	400	—	24
—	P40	412	—	P800	22
50	—	351	500	—	20
—	P50	326	—	P1000	18
60	—	268	600	—	16
—	P60	260	—	P1200	15
—	P80	197	—	P1500	13
80	—	192	800	—	12
—	P100	156	—	P2000	10
100	—	141	1000	P2400	9
—	P120	127	1200	P2500	8
120	—	116	1200 Fine	—	8
—	P150	97	1500	P4000	5
150	—	93			
180	P180	78			
220	—	66			
—	P220	65			
—	P240	59			
240	—	54			
—	P280	53			
—	P320	46			

Electrostatic Coating	Slurry Coating
	
Reference 1	Reference 2

Grinding - Abrasive Discs

Silicon Carbide • 8 in (200 mm) diameter • Plain Back • Production Grade



Grit	Qty	Part No
60 grit	100	810-217-300
120 grit	100	810-219-300
180 grit	100	810-221-300
240 grit	100	810-223-300
320 grit	100	810-225-300
400 grit	100	810-227-300
600 grit	100	810-229-300

Silicon Carbide • 8 in (200 mm) diameter • Adhesive Back • Production Grade



Grit	Qty	Part No
60 grit	100	810-285-300
120 grit	100	810-259-300
180 grit	100	810-261-300
240 grit	100	810-263-300
320 grit	100	810-265-300
400 grit	100	810-267-300
600 grit	100	810-269-300

Silicon Carbide • 10 in (250 mm) diameter • Plain Back • Production Grade



Grit	Qty	Part No
60 grit	100	812-374-300
120 grit	100	812-375-300
180 grit	100	812-376-300
240 grit	100	812-377-300
320 grit	100	812-378-300
400 grit	100	812-379-300
600 grit	100	812-380-300

Silicon Carbide • 10 in (250 mm) diameter • Adhesive Back • Production Grade



Grit	Qty	Part No
60 grit	100	812-367-300
120 grit	100	812-368-300
180 grit	100	812-369-300
240 grit	100	812-370-300
320 grit	100	812-371-300
400 grit	100	812-372-300
600 grit	100	812-373-300

Grinding - Abrasive Discs

Silicon Carbide • 12 in (300 mm) diameter • Plain Back • Production Grade



Grit	Qty	Part No
60 grit	100	810-291-300
120 grit	100	810-292-300
180 grit	100	810-293-300
240 grit	100	810-294-300
320 grit	100	810-295-300
400 grit	100	810-296-300
600 grit	100	810-297-300

Silicon Carbide • 12 in (300 mm) diameter • Adhesive Back • Production Grade



Grit	Qty	Part No
60 grit	100	810-245-300
120 grit	100	810-247-300
180 grit	100	810-249-300
240 grit	100	810-251-300
320 grit	100	810-253-300
400 grit	100	810-255-300
600 grit	100	810-257-300

Grinding - Abrasive Discs

Silicon Carbide • 8 in (200 mm) diameter • Plain Back • Premium Grade



Grit	Arbor Hole	Qty	Part No
60 grit		100	810-217-PRM
120 grit		100	810-219-PRM
180 grit		100	810-221-PRM
180 grit	0.5 in (13 mm)	100	810-235-PRM
240 grit		100	810-223-PRM
240 grit	0.5 in (13 mm)	100	810-237-PRM
320 grit		100	810-225-PRM
320 grit	0.5 in (13 mm)	100	810-239-PRM
400 grit		100	810-227-PRM
400 grit	0.5 in (13 mm)	100	810-241-PRM
600 grit		100	810-229-PRM
600 grit	0.5 in (13 mm)	100	810-243-PRM
800 grit		100	810-035-100
1200 grit		100	810-036-100
1200 grit slurry coat		100	810-036-500

Silicon Carbide • 8 in (200 mm) diameter • Adhesive Back • Premium Grade



Grit	Qty	Part No
120 grit	100	810-259-PRM
180 grit	100	810-261-PRM
240 grit	100	810-263-PRM
320 grit	100	810-265-PRM
400 grit	100	810-267-PRM
600 grit	100	810-269-PRM
800 grit	100	810-033-100
1200 grit	100	810-034-100
1200 grit slurry coat	100	810-034-500

Silicon Carbide • 10 in (250 mm) diameter • Plain Back • Premium Grade



Grit	Qty	Part No
60 grit	100	812-201-PRM
120 grit	100	812-203-PRM
180 grit	100	812-205-PRM
400 grit	100	812-211-PRM
240 grit	100	812-207-PRM
320 grit	100	812-209-PRM
600 grit	100	812-213-PRM
800 grit	100	812-217-200
1200 grit	100	812-219-200
1200 grit slurry coat	100	812-221

Grinding - Abrasive Discs

Silicon Carbide • 10 in (250 mm) diameter • Adhesive Back • Premium Grade



Grit	Qty	Part No
60 grit	100	812-202-PRM
120 grit	100	812-204-PRM
180 grit	100	812-206-PRM
240 grit	100	812-208-PRM
320 grit	100	812-210-PRM
400 grit	100	812-212-PRM
600 grit	100	812-214-PRM
800 grit	100	812-218-200
1200 grit	100	812-220-200
1200 grit slurry coat	100	812-222

Silicon Carbide • 12 in (300 mm) diameter • Plain Back • Premium Grade



Grit	Qty	Part No
60 grit	100	810-291-PRM
120 grit	100	810-292-PRM
180 grit	100	810-293-PRM
240 grit	100	810-294-PRM
320 grit	100	810-295-PRM
400 grit	100	810-296-PRM
600 grit	100	810-297-PRM
800 grit	100	810-856-100
1200 grit	100	810-857-100
1200 grit slurry coat	100	810-857-500

Silicon Carbide • 12 in (300 mm) diameter • Adhesive Back • Premium Grade



Grit	Qty	Part No
60 grit	100	810-245-PRM
120 grit	100	810-247-PRM
180 grit	100	810-249-PRM
240 grit	100	810-251-PRM
320 grit	100	810-253-PRM
400 grit	100	810-255-PRM
600 grit	100	810-257-PRM
800 grit	100	810-858-100
1200 grit	100	810-859-100
1200 grit slurry coat	100	810-859-500

Grinding - Abrasive Discs

Aluminum Oxide • Plain Back



Size	Grit	Arbor Hole	Qty	Part No
12 in (300 mm) diameter	60 grit	0.5 in (13 mm)	100	812-002

Diamond Spot Pattern • 8 in (200 mm) diameter • Adhesive Back



Abrasive	Bond	Qty	Part No
250 micron	Metal	1	811-507
125 micron	Metal	1	811-508
74 micron	Metal	1	811-509
40 micron	Metal	1	811-510
20 micron	Metal	1	811-511
10 micron	Metal	1	811-512

Diamond Spot Pattern • 12 in (300 mm) diameter • Adhesive Back



Abrasive	Bond	Qty	Part No
250 micron	Resin	1	811-516
125 micron	Metal	1	811-517
74 micron	Metal	1	811-518
40 micron	Metal	1	811-519
20 micron	Metal	1	811-520
10 micron	Metal	1	811-521

Zirconium Oxide • Adhesive Back



Size	Grit	Qty	Part No
8 in (200 mm) diameter	60 grit	25	812-021
8 in (200 mm) diameter	220 grit	25	812-024
12 in (300 mm) diameter	60 grit	25	812-045
12 in (300 mm) diameter	120 grit	25	812-046

Grinding - Abrasive Belts

Aluminum Oxide



For use with BG30 and BG32

Size	Grit	Qty	Part No
4 in (100 mm) x 36 in (915 mm)	50 grit	10	810-021
4 in (100 mm) x 36 in (915 mm)	80 grit	10	810-022
4 in (100 mm) x 36 in (915 mm)	120 grit	10	810-023
4 in (100 mm) x 36 in (915 mm)	180 grit	10	810-024
4 in (100 mm) x 36 in (915 mm)	240 grit	10	810-025
4 in (100 mm) x 36 in (915 mm)	320 grit	10	810-026

Silicon Carbide



For use with BG30 and BG32

Size	Grit	Qty	Part No
4 in (100 mm) x 36 in (915 mm)	50 grit	10	810-001
4 in (100 mm) x 36 in (915 mm)	80 grit	10	810-002
4 in (100 mm) x 36 in (915 mm)	120 grit	10	810-003
4 in (100 mm) x 36 in (915 mm)	180 grit	10	810-004
4 in (100 mm) x 36 in (915 mm)	220 grit	10	810-005
4 in (100 mm) x 36 in (915 mm)	320 grit	10	810-006
4 in (100 mm) x 36 in (915 mm)	400 grit	10	810-007
4 in (100 mm) x 36 in (915 mm)	600 grit	10	810-008

Zirconium Oxide



For use with BG30 and BG32

Size	Grit	Qty	Part No
4 in (100 mm) x 36 in (915 mm)	60 grit	5	810-487
4 in (100 mm) x 36 in (915 mm)	120 grit	5	810-499
4 in (100 mm) x 36 in (915 mm)	180 grit	5	810-489
4 in (100 mm) x 36 in (915 mm)	220 grit	5	810-493

Grinding - Abrasive Strips/Rolls

Silicon Carbide Rolls



For use with the DS20

Size	Grit	Qty	Part No
3 in (75 mm) width	120 grit	50 ft	810-086
3 in (75 mm) width	180 grit	60 ft	810-087
3 in (75 mm) width	240 grit	60 ft	810-088
3 in (75 mm) width	320 grit	75 ft	810-089
3 in (75 mm) width	400 grit	75 ft	810-090
3 in (75 mm) width	600 grit	75 ft	810-091
3-7/16 in (90 mm) width	240 grit	60 ft	810-734
3-7/16 in (90 mm) width	320 grit	75 ft	810-735
3-7/16 in (90 mm) width	400 grit	75 ft	810-736
3-7/16 in (90 mm) width	600 grit	75 ft	810-737

Silicon Carbide Strips • Adhesive Back



Size	Grit	Qty	Part No
3 in (75 mm) x 11.00 in (280 mm)	240 grit	100	810-161-PRM
3 in (75 mm) x 11.00 in (280 mm)	320 grit	100	810-162-PRM
3 in (75 mm) x 11.00 in (280 mm)	400 grit	100	810-163-PRM
3 in (75 mm) x 11.00 in (280 mm)	600 grit	100	810-164-PRM

CAMEO Magnetic Disc System

CAMEO Platinum



A reusable alternative to silicon carbide papers.

NOTE: Must have Magnetic Disc to use CAMEO Discs.

Description	Size	Qty	Part No
Platinum 0 Brown (comparable to 60 to 120 grit)	200 mm (8 in)	1	812-421
Platinum 0 Brown (comparable to 60 to 120 grit)	250 mm (10 in)	1	812-420
Platinum 0 Brown (comparable to 60 to 120 grit)	300 mm (12 in)	1	812-419
Platinum 1 Blue (comparable to 120 to 180 grit)	200 mm (8 in)	1	812-341
Platinum 1 Blue (comparable to 120 to 180 grit)	250 mm (10 in)	1	812-337
Platinum 1 Blue (comparable to 120 to 180 grit)	300 mm (12 in)	1	812-333
Platinum 2 Green (comparable to 220 to 280 grit)	200 mm (8 in)	1	812-342
Platinum 2 Green (comparable to 220 to 280 grit)	250 mm (10 in)	1	812-338
Platinum 2 Green (comparable to 220 to 280 grit)	300 mm (12 in)	1	812-334
Platinum 3 Yellow (comparable to 400 grit)	200 mm (8 in)	1	811-651-103
Platinum 3 Yellow (comparable to 400 grit)	250 mm (10 in)	1	811-651-104
Platinum 3 Yellow (comparable to 400 grit)	300 mm (12 in)	1	811-651-105
Platinum 4 Red (comparable to 600 grit)	200 mm (8 in)	1	811-651-106
Platinum 4 Red (comparable to 600 grit)	250 mm (10 in)	1	811-651-107
Platinum 4 Red (comparable to 600 grit)	300 mm (12 in)	1	811-651-108

CAMEO Pre-Polish



Require the use of CAMEO diamond suspensions for coarse polishing.

NOTE: Must have Magnetic Disc to use CAMEO Discs.

Description	Size	Qty	Part No
Gold Pre-Polish Disc [Cu and Al Alloys]	200 mm (8 in)	1	812-343
Gold Pre-Polish Disc [Cu and Al Alloys]	250 mm (10 in)	1	812-339
Gold Pre-Polish Disc [Cu and Al Alloys]	300 mm (12 in)	1	812-335
Silver Pre-Polish Disc [Ferrous Alloys]	200 mm (8 in)	1	812-344
Silver Pre-Polish Disc [Ferrous Alloys]	250 mm (10 in)	1	812-340
Silver Pre-Polish Disc [Ferrous Alloys]	300 mm (12 in)	1	812-336

CAMEO Diamond Suspension - Monocrystalline

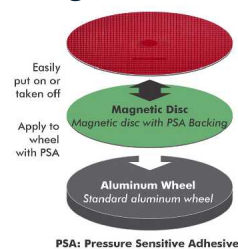


Diamond abrasive suspension designed specifically for use with CAMEO Gold and Silver Pre-Polish Discs.

Abrasive	Pkg Size	Qty	Part No
1 micron	250 mL (8.5 oz)	1	812-354
1 micron	gallon (3.8 L)	1	812-514
3 micron	250 mL (8.5 oz)	1	812-355
3 micron	gallon (3.8 L)	1	812-513
6 micron	250 mL (8.5 oz)	1	812-356
6 micron	gallon (3.8 L)	1	812-512
9 micron	250 mL (8.5 oz)	1	812-357
9 micron	gallon (3.8 L)	1	812-511

CAMEO Magnetic Disc System

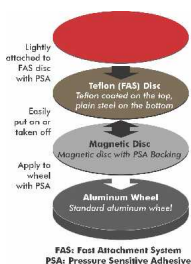
Magnetic Discs



Provides a magnetic base to attach CAMEO and Teflon Discs to the grinder/polisher wheel.

Size	Qty	Part No
200 mm (8 in)	1	812-381
250 mm (10 in)	1	812-382
300 mm (12 in)	1	812-383

Teflon Discs



A reusable disc that allows PSA backed grinding and polishing discs to be used with the magnetic disc.

Size	Qty	Part No
200 mm (8 in)	1	812-364
250 mm (10 in)	1	812-363
300 mm (12 in)	1	812-362

CAMEO Accessories



Description	Qty	Part No
BOXLAM Storage Cabinet, 6 Shelves	1	812-365
LAM300 Storage Cabinet, 11 Shelves	1	811-651-446

Metallographic polishing is a process that typically needs three consumable products to produce the desired finish for microscopic evaluation and hardness testing.

Polishing Cloth

Polishing cloths provide the surface for the polishing operation. A variety of cloths are available to match the polishing application. Hard woven cloths are best suited for coarse polishing, and soft flocked cloths work best for final polishing. See the table below to find the best LECO cloth for your application.

Abrasive

The abrasive does the real work in metallographic polishing. Whether a paste, spray, or liquid suspension, LECO has the right abrasive in the right size for any polishing application.

Lubricant

Polishing lubricants help the polishing cloth and abrasive work together to polish the sample by ensuring an equal distribution of the abrasives on the cloth.

Cloth	≥ 9 to 15 μm	≥ 6 to 9 μm	≥ 3 to 6 μm	≥ 1 to 3 μm	≥ 0.05 to 1 μm
Nylon	X	X			
Canvas	X	X			
PAN-W	X	X	X		
Crème Silk	X	X	X		
Ultra Silk	X	X	X		
Silk	X	X	X		
White Technotron	X	X	X	X	
Gold Technotron	X	X	X	X	X
Red Felt		X	X	X	
Billiard		X	X	X	
Imperial				X	X
Lecloth				X	X
Le-Vel				X	X
Brown Technotron				X	X

Polishing Cloths

Nylon



A hard woven cloth perfect for coarse polishing. For use with abrasives 6 μ m and up.

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	810-648
8 in (~200 mm)	Plain Back	10	810-462
10 in (~250 mm)	Adhesive	10	812-223
12 in (~300 mm)	Adhesive	10	810-645
12 in (~300 mm)	Plain Back	10	810-511

Canvas



Woven canvas material for coarse polishing. For use with abrasives 6 μ m and up.

Size	Backing	Qty	Part No
8 in (~200 mm)	Plain Back	10	810-469

PAN-W



Dense non-woven textile excellent for coarse and intermediate polishing. For use with abrasives 3 μ m and up.

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	809-501
10 in (~250 mm)	Adhesive	10	809-504
12 in (~300 mm)	Adhesive	10	809-505

Crème Silk



Woven satin polishing cloth for use in coarse and intermediate polishing. For use with abrasives 3 μ m and up.

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	812-449
10 in (~250 mm)	Adhesive	10	812-450
12 in (~300 mm)	Adhesive	10	812-451

Ultra Silk



Woven artificial silk with a rigid backing for coarse and intermediate polishing. For use with abrasives 3 μ m and up.

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	812-437
10 in (~250 mm)	Adhesive	10	812-438
12 in (~300 mm)	Adhesive	10	812-439

Polishing Cloths

Silk



A woven silk for coarse and intermediate polishing. Plain Back only. For use with abrasives 3 μm and up.

Size	Backing	Qty	Part No
12 in (~300 mm)	Plain Back	10	810-516

White Technotron



Durable woven artificial silk with a wide range of polishing applications. For use with abrasives 1 μm and up.

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	812-452
10 in (~250 mm)	Adhesive	10	812-453
12 in (~300 mm)	Adhesive	10	812-454

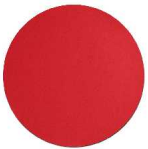
Gold Technotron



A durable, versatile woven satin cloth for all polishing applications and abrasive sizes.

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	812-446
10 in (~250 mm)	Adhesive	10	812-447
12 in (~300 mm)	Adhesive	10	812-448

Red Felt



A flocked felt for intermediate polishing. For use with abrasives from 1 to 9 μm .

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	810-647
8 in (~200 mm)	Plain Back	10	810-466
10 in (~250 mm)	Adhesive	10	812-225
12 in (~300 mm)	Adhesive	10	810-644
12 in (~300 mm)	Plain Back	10	810-515

Billiard



A green flocked cloth for intermediate polishing. For use with abrasives from 1 to 9 μm .

Size	Backing	Qty	Part No
8 in (~200 mm)	Plain Back	10	810-465

Polishing Cloths

Imperial



A fine polishing cloth that pairs excellently with colloidal silica. For use with abrasives 3 μ m and under.

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	810-545-010
10 in (~250 mm)	Adhesive	10	812-226-010
12 in (~300 mm)	Adhesive	10	810-546-010

Lecloth™



Medium napped cloth for fine polishing. For use with abrasives 3 μ m and under.

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	810-497
8 in (~200 mm)	Plain Back	10	810-470
10 in (~250 mm)	Adhesive	10	812-224
12 in (~300 mm)	Adhesive	10	810-543

Le-Vel



Medium napped cloth ideal for fine polishing. For use with abrasives 3 μ m and under.

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	812-497
10 in (~250 mm)	Adhesive	10	812-498
12 in (~300 mm)	Adhesive	10	812-499

Brown Technotron



Durable flocked cloth for fine polishing. For use with abrasives 3 μ m and under.

Size	Backing	Qty	Part No
8 in (~200 mm)	Adhesive	10	812-455
10 in (~250 mm)	Adhesive	10	812-456
12 in (~300 mm)	Adhesive	10	812-457

Polishing Abrasives

Diamond Polishing Compound Paste • Monocrystalline

Diamond Paste in Syringe Applicators



Abrasive	Color	Pkg Size	Part No
0.1 micron	Gray	5 g	810-865
0.1 micron	Gray	15 g	810-866
0.5 micron	Gray	5 g	810-867
0.5 micron	Gray	15 g	810-868
1 micron	Ivory	5 g	810-869
1 micron	Ivory	15 g	810-870
3 micron	Yellow	5 g	810-871
3 micron	Yellow	15 g	810-872
6 micron	Orange	5 g	810-873
6 micron	Orange	15 g	810-874
9 micron	Green	5 g	810-912
9 micron	Green	15 g	810-913
15 micron	Blue	5 g	810-914
15 micron	Blue	15 g	810-915
30 micron	Red	15 g	810-880
45 micron	Brown	15 g	810-882

Diamond Polishing Suspension • Monocrystalline

Economical choice for most materials including cast iron, steels, aluminum, copper, etc.



Abrasive	Color	Pkg Size	Part No
0.5 micron	Gray	8 oz (240 mL) Spray Bottle	810-999-008
0.5 micron	Gray	16 oz (470 mL) Spray Bottle	810-999-016
1 micron	Ivory	8 oz (240 mL) Spray Bottle	810-998-008
1 micron	Ivory	16 oz (470 mL) Spray Bottle	810-998-016
1 micron	Ivory	1 gallon (3.8 L)	812-501
3 micron	Yellow	8 oz (240 mL) Spray Bottle	810-997-008
3 micron	Yellow	16 oz (470 mL) Spray Bottle	810-997-016
3 micron	Yellow	1 gallon (3.8 L)	812-502
6 micron	Orange	8 oz (240 mL) Spray Bottle	810-996-008
6 micron	Orange	16 oz (470 mL) Spray Bottle	810-996-016
6 micron	Orange	1 gallon (3.8 L)	812-503
9 micron	Green	8 oz (240 mL) Spray Bottle	810-995-008
9 micron	Green	16 oz (470 mL) Spray Bottle	810-995-016
9 micron	Green	1 gallon (3.8 L)	812-504
15 micron	Blue	8 oz (240 mL) Spray Bottle	810-994-008
15 micron	Blue	16 oz (470 mL) Spray Bottle	810-994-016
15 micron	Blue	1 gallon (3.8 L)	812-505

Polishing Abrasives

Diamond Polishing Suspension • Monocrystalline • Water Free



Abrasive	Pkg Size	Part No
0.25 micron	8 oz (240 mL)	810-946-002-HAZ
0.25 micron	16 oz (470 mL)	810-946-003-HAZ
0.25 micron	1 gallon (3.8 L)	810-946-001-HAZ
1 micron	8 oz (240 mL)	810-946-005-HAZ
1 micron	16 oz (470 mL)	810-946-006-HAZ
1 micron	1 gallon (3.8 L)	810-946-004-HAZ
3 micron	8 oz (240 mL)	810-946-008-HAZ
3 micron	16 oz (470 mL)	810-946-009-HAZ
3 micron	1 gallon (3.8 L)	810-946-007-HAZ
6 micron	8 oz (240 mL)	810-946-011-HAZ
6 micron	16 oz (470 mL)	810-946-012-HAZ
6 micron	1 gallon (3.8 L)	810-946-010-HAZ
9 micron	8 oz (240 mL)	810-946-014-HAZ
9 micron	16 oz (470 mL)	810-946-015-HAZ
9 micron	1 gallon (3.8 L)	810-946-013-HAZ
15 micron	8 oz (240 mL)	810-946-017-HAZ
15 micron	16 oz (470 mL)	810-946-018-HAZ
15 micron	1 gallon (3.8 L)	810-946-016-HAZ

Diamond Polishing Suspension • Polycrystalline

For use with hard materials such as ceramics, tool steels, and carbides



Abrasive	Pkg Size	Part No
0.5 micron	8 oz (240 mL) Spray Bottle	811-506-008
1 micron	8 oz (240 mL) Spray Bottle	811-505-008
1 micron	1 gallon (3.8 L)	812-506
3 micron	8 oz (240 mL) Spray Bottle	811-504-008
3 micron	1 gallon (3.8 L)	812-507
6 micron	8 oz (240 mL) Spray Bottle	811-503-008
6 micron	1 gallon (3.8 L)	812-508
9 micron	8 oz (240 mL) Spray Bottle	811-502-008
9 micron	1 gallon (3.8 L)	812-509
15 micron	8 oz (240 mL) Spray Bottle	811-501-008
15 micron	1 gallon (3.8 L)	812-510

Diamond Polishing Spray • Monocrystalline



Abrasive	Pkg Size	Part No
0.25 micron	4 oz (127 mL)	810-945-HAZ
1 micron	4 oz (127 mL)	810-944-HAZ
3 micron	4 oz (127 mL)	810-943-HAZ
6 micron	4 oz (127 mL)	810-942-HAZ
9 micron	4 oz (127 mL)	810-941-HAZ

Polishing Abrasives

Colloidal Silica Polishing Slurry



Abrasive	Pkg Size	Part No
0.08 micron	1 qt (950 mL)	812-110-300
0.08 micron	1 gal (3.8 L)	812-121-300

Cerium Oxide Suspension



Abrasive	Pkg Size	Part No
0.8 micron	6 oz (180 mL)	833-101-250

Chromium Oxide Slurry



Abrasive	Pkg Size	Part No
0.05 micron	6 oz (180 mL)	810-829
1.0 micron	6 oz (180 mL)	810-828

Aluminum Oxide Powder



Abrasive	Pkg Size	Part No
0.3 micron	8 oz (0.23 kg)	810-781
5 micron	1 lb (0.45 kg)	810-707
5 micron	5 lb (2.27 kg)	810-708
15 micron	5 lb (2.27 kg)	810-706

Aluminum Oxide Powder • Deagglomerated



Description	Abrasive	Pkg Size	Part No
Gamma B Alumina	0.05 micron	1 lb (0.45 kg)	810-778
Alpha A Alumina	0.3 micron	1 lb (0.45 kg)	810-782
Alpha C Alumina	1.0 micron	1 lb (0.45 kg)	810-786
Gamma B Alumina	0.05 micron	5 lb (2.27 kg)	810-779
Alpha A Alumina	0.3 micron	5 lb (2.27 kg)	810-783
Alpha C Alumina	1.0 micron	5 lb (2.27 kg)	810-787

Aluminum Oxide Slurry • Deagglomerated



Description	Abrasive	Pkg Size	Part No
Gamma B Alumina	0.05 micron	6 oz (180 mL)	810-826
Alpha A Alumina	0.3 micron	6 oz (180 mL)	810-827
Alpha C Alumina	1.0 micron	6 oz (180 mL)	810-819
Levigated Alumina	5.0 micron	6 oz (180 mL)	810-825
Gamma B Alumina	0.05 micron	1 gallon (3.8 L)	810-665
Alpha A Alumina	0.3 micron	1 gallon (3.8 L)	810-832
Alpha C Alumina	1.0 micron	1 gallon (3.8 L)	810-818
Levigated Alumina	5.0 micron	1 gallon (3.8 L)	810-842

Polishing Lubricants

Diamond Lapping Oil • Microid Extender • Water Free

For Use with All Diamond Compounds and Suspensions



Description	Pkg Size	Part No
Water Free	4 oz (120 mL)	811-001
Water Free	1 qt (950 mL)	811-003
Water Free	1 gallon (3.8 L)	811-004

Ultralap Diamond Extender • Alcohol Based • Water Free

Improved Material removal for use with all diamond compounds and suspensions



Description	Pkg Size	Part No
Alcohol Based, Water Free	4 oz (120 mL)	812-433-HAZ
Alcohol Based, Water Free	1 pt. (470 mL)	812-434-HAZ
Alcohol Based, Water Free	1 qt (950 mL)	812-435-HAZ
Alcohol Based, Water Free	1 gallon (3.8 L)	812-436-HAZ

Aqua Lube • Environmentally Friendly Extender • Water Soluble

Manufactured with less harsh ingredients for a safer and more environmentally friendly polishing process.



Description	Pkg Size	Part No
Water Soluble	1 pt. (470 mL)	812-528
Water Soluble	1 gallon (3.8 L)	812-527

Al-Blue Lube • Alcohol Based • Water Free

Formulated for use with water-free diamond suspensions



Description	Pkg Size	Part No
Alcohol Based, Water Free	1 pt. (470 mL)	810-946-021-HAZ
Alcohol Based, Water Free	1 qt (950 mL)	810-946-020-HAZ
Alcohol Based, Water Free	1 gallon (3.8 L)	810-946-019-HAZ

Sample Holders for Grinding/Polishing

Fixed Specimen Holders for PX300



Securely fix your samples for exceptionally flat grinding and polishing in LECO's fixed specimen holder available in a variety of sizes.

*Blank specimen holders are available for end-users to customize any sample shape and size. Specifications and part numbers may change. Consult LECO for latest information.

Description	Part No
8-place Sample Holder for 1.00 in and 25 mm diameter samples	811-655-873
6-place Sample Holder for 1.25 in and 30 mm diameter samples	811-655-872
4-place Sample Holder for 1.50 in and 40 mm diameter samples	811-655-871
Blank Specimen Holder 5.75 in diameter*	811-655-867

Fixed Specimen Holders for PX400



Description	Part No
8-place Sample Holder for 1.00 in and 25 mm diameter samples	811-655-813
6-place Sample Holder for 1.25 in and 30 mm diameter samples	811-655-812
4-place Sample Holder for 1.50 in and 40 mm diameter samples	811-655-711
Blank Specimen Holder 5.75 in diameter*	811-655-814

Fixed Specimen Holders for PX500



Description	Part No
12-place Sample Holder for 1.00 in and 25 mm diameter samples	811-655-911
9-place Sample Holder for 1.25 in and 30 mm diameter samples	811-655-908
6-place Sample Holder for 1.50 in and 40 mm diameter samples	811-655-909
4-place Sample Holder for 2.00 in and 50 mm diameter samples	811-655-910
Blank Specimen Holder 6.94 in diameter*	811-655-710
Blank Specimen Holder 8.94 in diameter*	811-655-715

Sample Holders for Grinding/Polishing

Individual Specimen Holders for PX400/PX500



Secure samples without tools with individual samples holders for use with automatic versions of the PX400 and PX500

*Blank specimen holders are available for end-users to customize any sample shape and size. Specifications and part numbers may change. Consult LECO for latest information.

Description	Part No
6-Place Individual Sample Holders for 1.00 in and 25 mm diameter samples	811-655-566
6-Place Individual Sample Holders for 1.25 diameter samples	811-655-569
6-Place Individual Sample Holders for 1.50 in diameter samples	811-655-567
3-Place Individual Sample Holders for 2.00 in and 50 mm diameter samples	811-655-568
6-Place Individual Sample Holders for 30 mm diameter samples	811-655-570
6-Place Individual Sample Holders for 40 mm diameter samples	811-655-571
Blank Individual Sample Holder*	811-655-572

Specimen Leveling Plates



Description	Part No
Specimen leveling plate for PX300 and PX400 fixed specimen holders	811-655-818
Specimen leveling plate for PX500 fixed specimen holders	811-655-243
Specimen leveling plate for 811-655-715 fixed specimen holder	811-655-396

SS1000 Fixed Sample Holders



Description	Part No
8-place Sample Holder for 1.00 in diameter samples	804-085
6-place Sample Holder for 1.25 in diameter samples	804-088
4-place Sample Holder for 1.50 in diameter samples	804-091
2-place Sample Holder for 2.00 in diameter samples	806-793
Specimen Leveler for SS1000 Sample Holders	806-796

Optical Accessories

Bulbs



*Standard Bulb; †Only available in USA

Description	Used With	Part No
6V 15W Clear	M-400G-Series, M-400FF, M-400 CCTV, V-100A1, V-100A2, V-100C1, V-100C2	861-824
6V 18W	LM-Series, LV-Series, LMV-50V	863-280
6V 30W Lamp†	GX41, BX41	910-040-086
12V 50W*	PME-3, PMG-3	860-564
12V 100W Halogen*†	GX51/71, BX51/61, BX60, PME-3, PMG-3	861-111
75W Xenon (ozone-free)†	GX-Series/BX-Series	861-179
DDL 500 Hour 20V 150W	Schott Fostec DDL, H3000 Light Source	861-250-123
EJA 40 Hour 21V 150W	Schott Fostec EJA, H3000 Light Source	860-899
EKE 200 Hour 21V 150W	Schott Fostec EKE, H3000 Light Source	910-000-907

Macro-Vickers Hardness Test Blocks



All LECO test blocks are ASTM compliant and meet the traceability requirements of ISO 17025.

Other test blocks are available; consult your LECO representative. Part numbers, specifications, and prices are subject to change.

Description	Part No
10 kgf (HV 175-240)	863-359
10 kgf (HV 400-600)	863-360
10 kgf (HV 650-750)	863-361
30 kgf (HV 200-250)	863-783-854
30 kgf (HV 400-450)	863-783-855
30 kgf (HV 700-800)	862-592-007

Microindentation Hardness Test Blocks



All LECO test blocks are ASTM compliant and meet the traceability requirements of ISO 17025.

Other test blocks are available; consult your LECO representative. Part numbers, specifications, and prices are subject to change.

Description	Part No
Vickers, 500 gf, 500 HV range	862-406
Vickers, 500 gf, 700 HV range	862-528-105
Vickers, 300 gf, 700 HV range	862-535
Knoop, 500 gf, 500 HK range	862-405
Knoop, 500 gf, 700 HK range	862-528-104
Knoop, 300 gf, 700 HK range	862-528
Vickers & Knoop, 300 gf, 500 HV & 500 HK range	863-783-852
Vickers & Knoop, 500 gf, 500 HV & 500 HK range	863-783-853

Optical Accessories

Objective Lenses for LM & LV Series Hardness Testers



Description	Part No
Objective Lens, 50X with shims	863-222-110
Objective Lens, 40X with shims	863-223-110
Objective Lens, 20X with shims	863-224-110
Objective Lens, 10X with shims	863-225-110
Objective Lens, 5X with shims	863-226-110

Rockwell Hardness Test Blocks



All blocks compliant with ASTM E-18.

Other test blocks are available; consult your LECO representative. Part numbers, specifications, and prices are subject to change.

Description	Part No
HRC Low-Range Test Block <35	861-870
HRC Mid-Range Test Block ≥35 and <60	861-872
HRC High-Range Test Block ≥60	861-873
HRBW Low Range Test Block < 60	862-407
HRBW Mid Range Test Block ≥60 and <88	862-408
HRBW High Range Test Block ≥88	862-409
HR30N Low-Range Test Block <55	862-597
HR30N Mid-Range Test Block ≥55 and <77	861-837
HR30N High-Range Test Block ≥77	862-557
HR30TW Low Range Test Block <57	862-410
HR30TW Mid Range Test Block ≥57 and <70	862-411
HR30TW High Range Test Block ≥70	862-412

Rockwell Indenters



All Rockwell hardness indenters are compliant with ASTM E-18.

Description	Part No
Diamond Combo (N & C) Grade B	863-783-832
Diamond C Scale Grade B	863-783-833
Diamond N Scale Grade B	863-783-834
Holder with 1/16 in Carbide Ball Grade B	863-783-835
Holder with 1/8 in Carbide Ball Grade B	863-783-836
Holder with 1/4 in Carbide Ball Grade B	863-783-837
Holder with 1/2 in Carbide Ball Grade B	863-783-838

Rockwell Indenter Replacement Balls

Description	Part No
1/16 in Carbide Ball	862-414
1/16 in Carbide Balls, Set of 12	862-414-012
1/16 in Carbide Balls, Set of 25	862-414-025
1/8 in Carbide Ball	862-415
1/4 in Carbide Ball	862-416
1/2 in Carbide Ball	862-417

Optical Accessories

Reference Optical Stage Micrometers • No Documentation Provided



Description	Part No
Dual Use. Suitable for use with high magnification systems. Calibrated at 0.010 mm (10 μ m), 0.10 mm, 0.001 inch, and 0.01 inch increments. Appears as black lines on a white background in reflected light, and white lines on a dark background in transmitted	863-783-146
High Magnification Applications. A 1 mm full scale optimized for reflected light. Each increment is 0.010 mm (10 μ m). Appears as black lines on a white background. Glass insert in a 1" x 3" metal slide for durability. Only available in USA.	860-256
Low Magnification (Macro/Stereo) Applications. English and Metric scales. English scale is 5 inches long with graduations at each 0.010 inch. Metric scale is 125 mm long with graduations at each 0.10 mm. 2" x 6" glass plate.	861-249-101
Certified Stage Micrometer for DSX1000	863-784-604

Traceable Optical Stage Micrometers



Description	Part No
Dual Use. Suitable for use with high magnification systems. Calibrated at 0.010 mm (10 μ m), 0.10 mm, 0.001 inch, and 0.01 inch increments. Appears as black lines on a white background in reflected light, and white lines on a dark background in transmitted	863-783-146CERT
High Magnification Applications. A 1 mm full scale optimized for reflected light. Each increment is 0.010 mm (10 μ m). Appears as black lines on a white background. Glass insert in a 1" x 3" metal slide for durability. Only available in USA.	860-256-110
Low Magnification (Macro) Applications. English and Metric scales. English scale is 5 inches long with graduations at each 0.010 inch. Metric scale is 125 mm long with graduations at each 0.10 mm. 2" x 6" glass plate.	861-375-110

LM/R/RT-Series Hardness Tester Anvils



Description	Part No
Anvil, 64 mm Flat	862-503
Anvil, Large V	862-504
Anvil, Small V	862-518

LM/LV-Series Shared Accessories



Description	Part No
Digital Stage Micrometer Handle (Eng./Metric)	861-722-340
Eyepiece, 15X	863-227

Optical Accessories

LM-Series Microindentation Hardness Tester Accessories



Description	Part No
Vickers Indenter	863-230
Knoop Indenter	863-231
Precision Vise, 50 mm	863-248
Precision Vise, 100 mm	863-249
Micro Specimen Sample Holder (AMH-style)	863-460-120
Specimen Self-Leveling Device	862-690
Kit Multi-Sample Holder 1.25 in AMH	863-783-216
Plate 1.25 in AMH	863-783-213
Kit Multi-Sample Holder 1.50 in AMH	863-783-217
Plate 1.50 in AMH	863-783-214
Kit Multi-Sample Holder 2.00 in AMH	863-783-218
Plate 2.00 in AMH	863-783-215
Universal Inclining Device	863-251
Dust Cover	863-276
Metric Stage Micrometer Handle (Analog)	863-295
English Stage Micrometer Handle (Analog)	863-296
Specimen Leveling Press Package	861-157

LR/LCR-Series Rockwell Hardness Tester Accessories



Description	Part No
Anvil, 60 mm Flat	863-242
Anvil, Large "V"	863-243
Anvil, Small "V"	863-244
Anvil, 9 mm Spot	863-245
Table Round, 200 mm	863-253
Sample Clamping Fixture	863-493
Jominy Test Table	863-254

LV-Series Macroindentation Hardness Tester Accessories



Description	Part No
Universal Inclining Device, 30 mm	863-250
Vickers Indenter	863-357
Knoop Indenter	863-358
Vise, 50 mm	863-388
Vise, 100 mm	863-389
Round Table, 200 mm	863-398
Metric Stage Micrometer Handle (Analog)	863-386
English Stage Micrometer Handle (Analog)	863-387
Metric 50x50 Stage	863-362

Optical Accessories

R/RT-Series Rockwell Hardness Tester Accessories

Description	Part No
Anvil, 12 mm Spot	862-520
Anvil, 6.5 mm Spot	862-561

V100-Series Macro-Vickers Hardness Tester Accessories



Description	Used With	Part No
Vickers Indenter	Any V-100-Type Tester	862-592-110

Ordering Information/General Terms

Ordering, Customer Assistance, and all Other Inquiries



Order Online NOTE: Available to USA customers only.

- Visit **www.lecodirect.com** to register for an account



Phone

800-292-6141 or
269-985-5496



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*for purchase orders or
pricing information*

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for general inquiries



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Terms and Conditions

- Terms: Net 30 days with approved credit.
- Prices shown are US dollars, F.O.B. St. Joseph, Michigan. Freight charges are prepaid and added to the invoice.
- Sales taxes will be added where applicable.
- Returns must be approved in advance; re-stocking fee may be applied. Return Material Authorization (RMA) is required for all returns. Contact LECO for RMA information.
- Disclaimer: LECO products are intended for use by professional laboratory personnel who are familiar with the handling of these materials. Our products are not for use in household, drug, medical, or cosmetic applications. The buyer and/or user assumes full responsibility for the safe handling, storage, application, and proper disposal of all products ordered from this catalog.
- Complete terms and conditions are included with quotations and invoices.
- **Prices, part numbers, and availability are subject to change without notice.**

Sectioning

SX100M



MSX250A



MSX432



SX100M Series

- Radial arm for manual sectioning at user-friendly working height
- Integrated 6.6 gallon recirculating tank
- Sloped floor for efficient coolant flow and minimal debris build-up
- Convenient, easy-to-operate control panel
- Electronic mechanical braking system

MSX Series

- Manual control and automatic oscillation or pulse sectioning
- Flexible model configurations with blades up to 17 in (432 mm)
- Optional integrated X- and Y-tables for parallel sections
- Optional filter bag kits for longer coolant operating life
- Side access ports to cut variable-length specimens
- Rugged steel design
- Recirculation tank included

Mounting



**Water
Recirculator**

MX500



MX400

MX Series

- Fully automatic mounting press with single- and dual-mounts in a variety of mold sizes
- Intuitive, easy-to-use touchscreen interface
- Simple, solid-steel closure design is durable, easy to clean, and avoids jamming
- Slim, 8-inch wide profile maximizes lab space
- Optional Water Recirculator to save water and keep MX units clean

PX400



PX500



PX400/500

- Intuitive, touch-screen software simplifies your grinding/polishing process
- Spiral bowl design prevents drain clogs
- Up to five programmable metered fluid dispensers to meet every polishing objective
- Rugged components withstand any environment
- Fixed and individual sample method models available

PX300



**PX300 with
Optional
Non-Motorized
Head**



PX300

- Solid and compact with a durable aluminum frame design
- Manual control of wheel speed, water spigot, and timer
- Water faucet with adjustable flow is flexible for ease of bowl cleaning
- Optional non-motorized head for multiple sample preparation

BG32



BG30



BG Series

- Coarse grinding
- Wet or dry applications
- Single- or dual-belt models
- Dust Collector and Water Recirculator available



DSX1000

DSX1000 Digital Microscope

- Combines micro and macro imaging in one versatile and easy to use package
- Capture and measure 3D images from 20 to 7000x magnification
- Powerful software to help capture the best image and create custom reports
- Available with a variety of options, and are compatible with IA44/PAX-it™ 2 Image Management software
- Available in the USA and Canada only

Olympus Optical Microscopes

- Inverted metallographs for production, quality control, and research
- Full range of upright stereo microscopes
- GX-, BX-, SZ-, and SZX-Series models available
- Full range of accessories including filters, reticles, digital cameras, and software
- Available in the USA and Canada only



GX-53



VX4

VX4 Optical Microscope

- Inverted brightfield metallograph with excellent optics and LED illumination
- Includes manual XY-stage and polarized light evaluation
- Camera port for simple camera integration

IA44/PAX-it™ 2 Image Management System

- Complete image analysis software with a powerful file archival system
- Search, sort, and organize images according to descriptive fields
- An ideal solution for measuring, archiving, and image analysis of materials
- Optional modules for grain size, nodularity, edge detection, layer thickness, and more



IA44/PAX-it

AMH55



AMH55 Hardness Testing System

- Cornerstone brand software for increased usability, simplified reporting, and streamlined analysis times
- Unique patented trace function
- Automatically measures impressions with various surface conditions, including scratched, etched, or unevenly illuminated surfaces
- Application-specific modules to expedite testing
- Available in Automatic, Semi-Automatic, and Lite configurations

LM-248AT



LM Series

- Microindentation, Knoop, and Vickers capabilities
- Analog and digital models
- Touch-screen capability on select models
- Durable design for reliable performance
- Optional auto turret
- All models conform to ASTM specifications

LV-810AT



LV Series

- Analog and digital models
- Macroindentation, Knoop, Brinell, and Vickers capabilities
- Touch-screen capability on LV810 models
- Optional auto turret
- All models conform to ASTM specifications

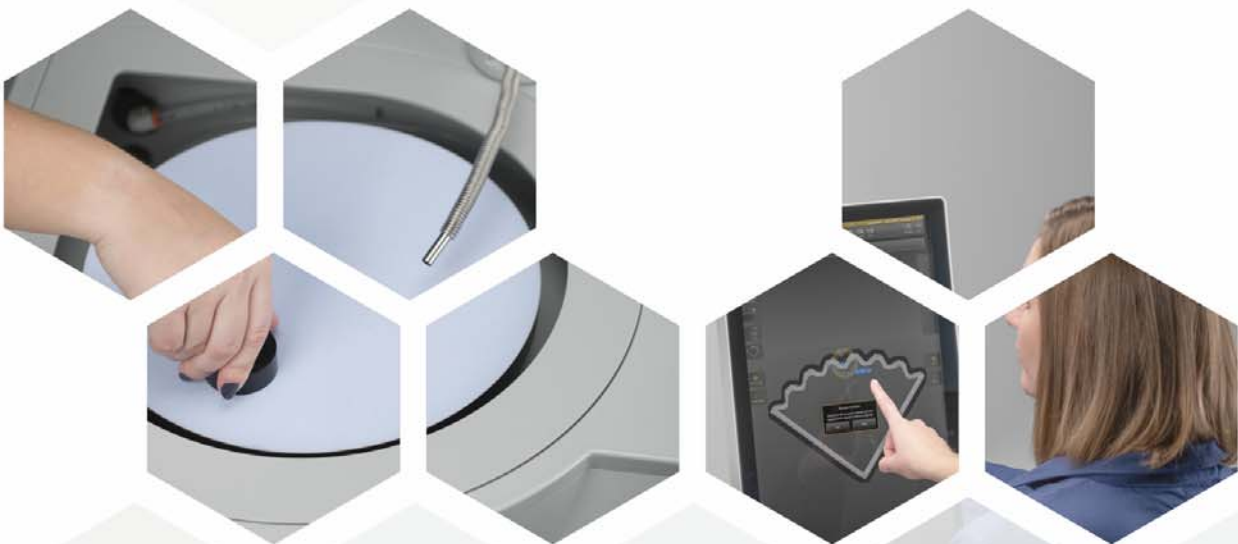
LCR500



LR/LCR Series Rockwell-Type

- Superficial & Rockwell scales
- Load Cell technology
- Highly accurate, reliable results
- Dead weight Rockwell-type units available
- Conforms to ASTM specifications

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