

Enamels for Copper

Medium Temperature / Medium Expansion Enamels for Copper.(Can also use on Gold and Silver) Lead free. 80 mesh enamel.

Transparent Enamels

<i>Clear Transparent</i>	<i>Greenish Blue - Aqua</i>
2010.....Soft Fusing Clear	2510.....Cascade Blue (A)
2020.....Clear for Silver	2520.....Aqua Blue (A)
2030.....Medium Fusing Clear	2530.....Water Blue (A)
2040.....Hard Fusing Clear	<i>Blue</i>
<i>Brown - Beige</i>	2610.....Sky Blue (A)
2110.....Ivory Beige	2615.....Periwinkle Blue (A)
2115.....Mars Brown	2620.....Bonnet Blue (A)
2120.....Otter Brown	2625.....Winter Blue (A)
2130.....Hazel Brown	2650.....Heron Blue (A)
2140.....Ruset Brown	2660.....Nitric Blue (A)
2170.....VanDyke Brown	2680.....Prussian Blue (A)
2190.....Chestnut Brown	<i>Purple</i>
<i>Yellow - Greenish Yellow</i>	2715.....Rose Purple
2210.....Egg Yellow (C)	2720.....Harold Purple (G)
2215.....Soft Yellow (C)	2740.....Savor Purple (G)
2220.....Chartreuse	2745.....Passion Purple (G)
2222.....Flax Yellow	2755.....Concord Grape Purple (G)
2230.....Lime Yellow	2760.....Mauve Purple
<i>Green</i>	2780.....Managanese Purple
2305.....Nile Green	<i>Pink - Red - Orange</i>
2310.....Peppermint Green	2810.....Geranium Pink (G)
2320.....Spring Green	2820.....Pink (Direct on copper) (G)
2325.....Gem Green	2825.....China Pink (G)
2335.....Peacock Green	2830.....Orange Red Ruby (G)
2340.....Glass Green	2835.....Rose Pink (G)
2350.....Grass Green	2840.....Mandarin Orange (C)
<i>Bluish Green - Turquoise</i>	2850.....Sunset Orange (C)
2410.....Copper Green	2880.....Woodrow Red (C)
2420.....Sea Green	<i>Grey</i>
2430.....Beryl Green	2910.....Elan Grey
2435.....Turquoise	2915.....Oil Grey

Opaque Enamels

<i>Whites</i>	<i>Greenish Blue - Aqua</i>
<i>Low Acid Resistance</i>	1505.....Pastel Greenish Blue
1010.....Undercoat White	1510.....Ozone Blue
<i>High Acid Resistance</i>	1515.....Horizon Blue
1020.....Titanium White	1520.....Calamine Blue (A)
1030.....Foundation White	1522.....French Blue (A)
1040.....Quill White	1525.....Aqua Blue (A)
1045.....Antique White	1530.....Twilight Blue (A)
1050.....Mat White	1540.....Wedgewood Blue (A)
<i>Brown</i>	1560.....Bluejay Blue (A)
1110.....Pastel Brown	<i>Blue</i>
1124.....Cork Brown	1605.....Isle Blue (A)
1125.....Nut Brown	1608.....Storm Blue (A)
1140.....Chamois Brown	1610.....Sky Blue (A)
1150.....Woodrow Brown	1615.....Atlantic Blue (A)
1170.....Elk Brown	1620.....Daphne Blue (A)
1175.....Moca Brown	1645.....Harvest Blue (A)
1180.....Briarwood Brown	1650.....Yacht Blue (A)
1190.....Peat Brown	1660.....Ultramarine Blue (A)
<i>Beige - Light Yellow</i>	1685.....Cobalt Blue (A)
1202.....Off White	<i>Pink - Purple</i>
1208.....Cream	1705.....Petal pink (G)
1211.....Candy Yellow	1708.....Pastel Pink (G)
1224.....Melon Yellow	1710.....Tallow Pink (G)
1225.....Lemon Yellow	1715.....Clover Pink (G)
1237.....Butter Yellow (C)	1720.....Mauve Purple (G)
1238.....Ivory	1745.....Fox Glove Purple (G)
1239.....Mellow Yellow	1750.....Orchid (G)
1240.....Pine Yellow	1760.....Iris Purple (G)
<i>Green</i>	1780.....Grape Purple (G)
1305.....Pastel Green	<i>Orange - Red - Yellow</i>
1308.....Lichen Green	1810.....Buttercup Yellow (C)
1315.....Willow Green	1820.....Goldenrod Yellow (C)
1319.....Bitter Green (C)	1830.....Marigold Yellow (C)
1335.....Pea Green (C)	1840.....Sunset Orange (C)
1345.....Hunter's Green	1850.....Pumpkin Orange (C)
1360.....Jungle Green	1860.....Flame Orange (C)
1380.....Mistletoe Green	1870.....Orient Red (C)
1390.....Alpine Green	1880.....Flame Red (C)
<i>Bluish Green - Turquoise</i>	1890.....Victoria Red (C)
1405.....Pastel Bluish Green	<i>Grey - Black</i>
1410.....Robin's Egg Blue	1905.....Pastel Grey
1415.....Sea Foam Green	1910.....Pussywillow Grey
1420.....Mint Green (C)	1912.....Nude Grey
1422.....Aqua Marine Green	1915.....Dove Grey
1425.....Sapphire (C)	1920.....Stump Grey
1430.....Spruce Green (A)	1940.....Steel Grey
1440.....Delft Blue Green (A)	1960.....Blue Grey
1465.....Peacock Blue Green (A)	1980.....Bluish Black (A)
	1995.....Black (A)
	1996.....Black (A)

Pricing:

Enamels are priced reflecting the cost of raw materials used to make specific colors. Enamels that do not have a letter following the number and name are "Standard". All others should be priced according to the letter A, B, C, or G (gold).

2 oz. packages:

Pre-packaged in 2 oz. (56.7 gram) packages.

Standard	\$13.19
Group A.....	\$14.39
Group B.....	\$21.39
Group C.....	\$22.19
Group G (contains gold)	\$24.59

Larger package sizes - Special order only:

Available on special order.

8 oz. packages:

Pre-packaged in 8 oz. (225 gram) packages.

Standard	\$31.59
Group A.....	\$33.79
Group B.....	\$50.39
Group C.....	\$52.79
Group G (contains gold)	\$57.29

5 lb. jars:

Bulk quantities in 5 lb jars are also available. Ask for pricing on these. Special order only.

Sample Kit "C":

Ink color charts never duplicate the effects of enamels on metal. This is particularly true of transparent colors, where background color and thickness of application strongly influence the final results. In order to help you select the color you want, a sample pack is available, which contains the complete palette of copper enamels.

Kit contains: 169 colors which are an assortment of opaque & transparent enamels, 1/2 to 1 oz. of each enamel.

Sample Kit C.....\$213.00

Copper Shapes

These shapes are formed from 18 guage copper. Price is per shape.

F76	Button: 3/4"	\$0.60
F201	Square: 3/4"	0.40
F203	Square: 1"	0.50
F205	Square: 1 1/4"	0.87
F206	Square: 1 1/2"	1.00
F207	Square: 2"	1.78
F298	Circle: 3/8"	0.40
F300	Circle: 5/8"	0.77
F303	Circle: 1"	0.48
F305	Circle: 1 1/4"	1.86
F307	Circle: 1 1/2"	1.14
F311	Circle: 2"	2.03
F408	Domed Triangle: 7/8" x 3/4"	0.50
F409	Domed Triangle: 1.5" x 1.5"	0.91
F417	Salmon: 2"	1.09
F455	Dove: 1 5/8"	1.22
F504	Half-moon: 1"	0.46
F700	Maple Leaf: 1 1/2" x 1 7/8"	1.26
F747	Drop with Hole: 1 3/4"	0.42
F807	Heart: 1 3/4"	2.27
F866	Rectangle: 1/2" x 2"	0.42
F890	Seagull: 2 1/2" x 3/4"	1.49
F893	Owl: 3/4" x 1 1/8"	1.53
F939	Flying goose: 1 3/4"	1.40
F954	Freeform: 2 1/2"	1.63
F955	Poodle: 1" x 1 1/4"	1.26
F964	Scotties: 1 1/4"	0.93
F965	Cat" 1 1/4" x 1 3/4"	1.38
F968	Rooster: 1 1/8"	0.93
F981	Oval: 1" x 3/4"	0.54
F982	Square: round corners: 7/8"	0.57
F987	Horse Head: 1 1/4"	0.57
F990	Double Heart: 7/8" x 1/2"	0.50
F992	Maple Leaf: 1" x 3/4"	0.50
F995	Heart: 1/2"	0.40
F997	Starfish: 1 3/8"	0.91
F1010	Drop: 1/2"	0.40
F1016	Oval: 3/4" x 1/2"	0.40
F1023	Oval: 1 3/8" x 1"	0.91
F1024	Goose: 1 3/4" x 3/4"	1.03
F1028	Apple: 1" x 1 1/4"	0.87
F1077	Square: round corners: 5/8"	0.47
F1079	Oval: 7/8" x 5/8"	0.46
F1082B	Oval: 1 1/4" x 1 1/2"	1.50

Note: the sizes of the copper shapes illustrated below are not the actual sizes, and are for illustration purposes only. For actual sizes, see the sizes listed to the left.

Gauge Chart		
B&S Gauge	Decimal Equivalent	Metric Equivalent
18 guage	.040 inches	1.00 mm
16 guage	.051 inches	1.29 mm
14 guage	.064 inches	1.58 mm



BULK COPPER SHAPES :
 - 20% off when ordering GROSS (144) quantities of the above shapes.
 - Please inquire for availability

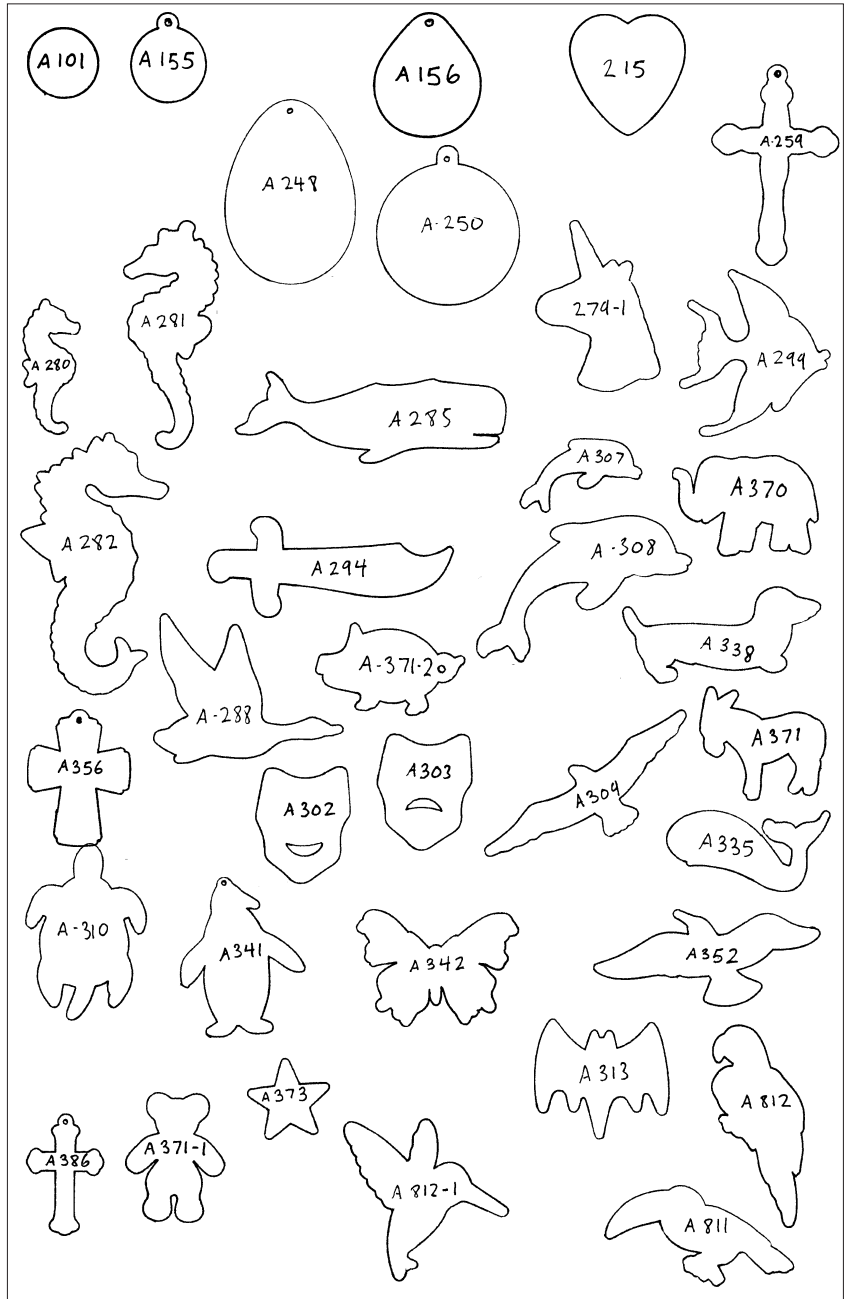
Copper Shapes

These shapes are formed from 18 guage copper. Price is per shape. Some shapes from this page may be discontinued.

A101.....	Circle: 1/2"	\$0.73
A155.....	Drop with hole: 9/16"	1.27
A156.....	Oval with hole: 7/8" x 1"	2.20
A215.....	Heart: 15/16" x 1 1/16"	2.20
A242.....	Palette: 2 15/16"	3.27
A248.....	Pendant: 1 3/8" x 2"	2.11
A250.....	Pendant: 1 1/2"	2.11
A259.....	Cross: 1 3/8" x 2 1/8"	0.92
A279-1	Unicorn: 1 13/16"	1.45
A280.....	Sea Horse: 1 1/2"	1.83
A281.....	Sea Horse: 2 1/2"	3.29
A282.....	Sea Horse: 3"	2.25
A285.....	Moby Dick: 3"	2.25
A288.....	Wild Duck: 2"	2.11
A294.....	Cutlass: 2 1/2"	1.28
A299.....	Butterfly fish: 1 5/8"	3.29
A302.....	Comedy: 1 1/4"	1.28
A303.....	Tragedy: 1 1/4"	1.28
A307.....	Dolphin: 1 3/8"	1.28
A308.....	Dolphin: 2 1/2"	2.11
A309.....	Seagull: 2 5/8"	2.11
A310.....	Turtle: 1 7/8"	3.29
A313.....	Bat: 1 1/2"	2.11
A335.....	Whale: 1 5/8"	1.45
A338.....	Dachhund: 2 1/8"	2.11
A341.....	Penguin: 1 3/4"	1.72
A342.....	Butterfly: 1 3/4"	2.11
A352.....	Seagull: 2 1/2"	1.72
A356.....	Cross: 1 1/16" x 1 7/16"	1.28
A370.....	Elephant: 1 1/2"	2.11
A371.....	Donkey: 1 1/4"	2.11
A371-1	Teddy Bear: 1 3/8"	3.29
A371-2	Piggie: 1 9/16"	2.11
A373.....	Small Star: 7/8"	1.41
A386.....	Cross: 3/4" x 1 1/4"	0.92
A811.....	Bird: 2 1/16"	1.45
A812.....	Parrot: 2 1/4"	2.11
A812-1	Hummingbird: 1 3/4"	3.29

Note: the sizes of the copper shapes illustrated below are not the actual sizes, and are for illustration purposes only. For actual sizes, see the sizes listed to the left.

Guage Chart		
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18 guage	.040 inches	1.00 mm
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 - Please inquire for availability

COPPER SHAPES

- see below for approx. number of pieces in a Lb.

Description:	Pieces per pound:
A101..... Circle: 1/2"	500
A155..... Drop with hole: 9/16"	290
A156..... Oval with hole: 7/8" x 1"	140
A215..... Heart: 15/16" x 1 1/16"	100
A242..... Pallette: 2 15/16"	19
A247..... Parallelogram: 1 1/2" x 2 3/4"	31
A248..... Pendant: 1 3/8" x 2"	41
A250..... Pendant: 1 1/2"	42
A259..... Cross: 1 3/8" x 2 1/8"	115
A279..... Horsehead: 1 3/8"	88
A279-1 Unicorn: 1 13/16"	77
A280..... Sea Horse: 1 1/2"	224
A281..... Sea Horse: 2 1/2"	80
A282..... Sea Horse: 3"	41
A285..... Moby Dick: 3"	64
A288..... Wild Duck: 2"	65
A294..... Cutlass: 2 1/2"	68
A299..... Butterfly fish: 1 5/8"	80
A302..... Comedy: 1 1/4"	100
A303..... Tragedy: 1 1/4"	100
A307..... Dolphin: 1 3/8"	220
A308..... Dolphin: 2 1/2"	70
A309..... Seagull: 2 5/8"	108
A310..... Turtle: 1 7/8"	70
A313..... Bat: 1 1/2"	70
A335..... Whale: 1 5/8"	96
A338..... Dachsund: 2 1/8"	96
A339..... Scotties: 2 1/2"	112
A341..... Penguin: 1 3/4"	80
A342..... Butterfly: 1 3/4"	72
A352..... Seagull: 2 1/2"	82
A356..... Cross: 1 1/16" x 1 7/16"	98
A370..... Elephant: 1 1/2"	72
A371..... Donkey: 1 1/4"	106
A371-1 Teddy Bear: 1 3/8"	106
A371-2 Piggie: 1 9/16"	100
A373..... Small Star: 7/8"	282
A386..... Cross: 3/4" x 1 1/4"	260
A811..... Bird: 2 1/16"	100
A812..... Parrot: 2 1/4"	77
A812-1 Hummingbird: 1 3/4"	80

Other Shapes: stocked

Flat Shapes

Square: 12" x 12": 19 guage \$35.17

Switch Plates

F1027 Single Toggle (modern) \$10.79

F856 Single Toggle..... \$10.79

F857 Double Toggle \$14.69

F855 Duplex Receptacle..... \$10.79

Crackle Colors

These 8 oz packages of lead free enamel can be used for spraying or dipping and which can produce beautiful crackle effects when fired over other low expansion enamels such as 1020 white, and 1997 black. Just add water to the dry mix to use them on their own, or they can be inter-mixed to create any color you like.

533.....White.....	\$16.39
767.....Peacock Blue	\$16.39
769.....Goldenrod	\$16.39
770.....Princeton	\$16.39
771.....Flame Red.....	\$16.39
772.....Black	\$16.39
788.....Cocoa	\$16.39
790.....Imperial.....	\$16.39
791.....Hunter	\$16.39
799.....Sky Blue.....	\$16.39
800.....Petal	\$16.39
801.....Hyacinth.....	\$16.39
929.....Chartreuse	\$16.39
930.....Chinese Red	\$16.39
935.....Robin Egg Blue.....	\$16.39
936.....Beige	\$16.39
937.....Coral	\$16.39
940.....Mouse Grey	\$16.39

Jewel Effect Lumps

Lead free. For thick jewel like appearances when fired on enamel. Excellent for bead making. 8 oz packages.

ALV-1 Assorted mix.....	\$26.59
ALV-2 Assorted transparents	\$26.59
ALV-3 Assorted opaques.....	\$26.59
ALV-4 Variegated Venetian type.....	\$26.59
ALV-5 Easy Scrolling	\$26.59

Opaque Enamel Threads

These thin, colored fibers are excellent for firing onto enamel surfaces to add line effects or they are also great for use with scrolling techniques. (1oz pkg)

OTV-1 Black.....	\$11.25
OTV-2 White.....	\$11.25
OTV-3 Blue.....	\$11.25
OTV-4 Red.....	\$11.25
OTV-5 Turquoise	\$11.25
OTV-6 Green.....	\$11.25
OTV-7 Yellow	\$11.25
OTV-8 (8 color mix).....	\$11.25

Millifiore

Millifiore are small, opaque glass chips from Italy and they come in flower patterns and can often be seen in jewelry and glass paperweights. Sold as a mix of about 12 patterns. A package of 1 oz contains roughly 50 to 100 pieces although the exact number will vary depending upon the size of your pieces.

1 ounce pkg:.....	\$20.89
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Separation Enamel: Dry

Separation enamel is painted in a linear design over 2-3 coats of pre-fired opaque and/or transparent enamels, with transparents being the final coat. When fired, the separation enamel is dissolved into and spreads apart the underlying enamel to result in flowing, spreading and marbelized effects. Dry and fire at 1450 F. for 2-5 minutes.

	1 oz	8 oz.
SE-2..... Separation Enamel.....	\$20.99	\$52.99

Base Coats: Liquid

BC-1070L..... White	pint.....	\$39.89
BC-303L..... Clear	pint.....	\$39.89

Base Coats: Dry

BC-1070.....White.....	8 oz	\$14.69
BC-303.....Clear.....	8 oz	\$14.69

Counter Enamel: Liquid

Liquid form brushable enamels which are excellent for use as a counter enamel. Dries hard and able to handle, so you can completely enamel both sides of a piece in one firing, warpage free.

LCE-1 Black	pint.....	\$46.69
LCE-2 Clear	pint.....	\$46.69
LCE-3 White	pint.....	\$46.69

Adhesive Agents / Mixing Mediums

Klyr-fire is the standard adhesive of the enamelling arts. Agar is an organic gum from the ocean. Non-foaming. Excellent for spraying. Holding agent is a water based binder. Squeegee oil is a special oil blend which fires ash free. Good silk-screening medium. Thinning Oil No. 5 is an oil which disperses a high percentage of powder. Paints very well and has good drying characteristics.

	4 oz.	pint
A-1	Klyr Fire.....	\$4.39..... \$10.59
A-2	Agar Solution.....	\$3.89..... \$7.39
A-3	Enamel Holding Agent	\$3.89..... \$7.89
A-4	Squeegee Oil.....	\$22.15
A-5	Thinning Oil No. 5.....	\$22.15

Scalex: Oxide Inhibitor

Inhibitor for the prevention of scale formation on exposed metal surfaces as enameled items are being fired. Paint it on thin, let it dry. Scalex falls off as fired items cool, exposing a clean metal surface. Sold in liquid form.

	4oz	Pint
C-4.....	Scalex	\$5.39..... \$14.99

Sparex: Metal Cleaner

A dry commercial compound to be mixed with water for cleaning and pickling copper prior to enamelling. 2.5 lb package.

C-3.....	Sparex.....	\$16.49
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Mica Sheets

This natural mineral comes in 4" square sheets and enables you to fire lump enamel directly upon it to make small spheres of glass or they can be used as the backing material for flat plique-a-jour work.

Mica Sheet: 4"x4"	\$8.79 ea
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M2 - Silver Foil

Fine silver sheets. 3 1/4" x 3 1/4" square. Call for availability. Prices are subject to change!

Book of 25 sheets.....	\$50.65
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Gold Leaf Foil:

Fine gold sheets (imitation gold) are sold by the book of 25 sheets (5 1/2" x 5 1/2" per sheet). Call for availability. Prices are subject to change!

Book of 25 sheets.....	\$22.45
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M5F - Silver Cloissone Wire Flat

Fine silver flat wire for use in cloissone. 18 ga. x 30 ga. (.040" x .010") 4 foot coil

.....	\$32.49
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M4F - Copper Cloissone wire Flat

Flat copper wire for cloissone. 18 ga. x 30 ga. (0.40" x .030") Sold in a 50 foot coil.

50 foot coil	\$39.89
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Overglaze lustres

Liquid metal lustres for adding detail on top of enamels.
 Laguna Bright Gold: 2 gr..... \$48.89
 Laguna Palladium: 2 gr..... \$48.89
 Duncan Mother of Pearl: 1/2 oz..... \$12.00

Mesh Trivets

Stainless steel mesh racks for firing your enamel pieces on. Non flaking Ni-chrome stainless. These trivets are supplied flat, but if you wish to make legs to elevate your rack, we suggest that you try bending the corners down in a vice.
 480.....3" square\$6.59
 481.....4" square\$7.49
 482.....6" square\$19.69

3 Point Metal Trivets

Stainless steel metal trivets for supporting work during firing. Excellent for most sizes and shapes
 #TPT-1 1.5" point to point \$5.99
 #TPT-2 2.0" point to point \$7.39
 #TPT-3 2.75" point to point \$9.39
 #TPT-4 3.5" point to point \$9.89

Sifters

Lightweight plastic sifters with 60 mesh screen. Used to sift our 80 mesh enamels onto copper.
 No. 1.....1/2" sifter..... \$7.69
 No. 2.....1" sifter..... \$9.39
 No. 3.....2" sifter..... \$10.59

Siftaline Tool

These specially made sifters can be used to sift a very fine line of enamel. Available in two sizes. Only 80 mesh or finer enamels should be used.
 LS-16 Siftaline tool: 1/16" \$33.89
 LS-32..... Siftaline tool: 1/32" \$33.89

Firing Forks

Heavy gauge handling forks for removing items. 21" in overall length.
 HF-2145: Firing Fork - 4.5" tine x 5 1/2" \$37.95

Scrolling Tools

Equipped with protective shields. For working with front loading kilns.
 K5: Pair Small Scrolling Tool: - pair of 9" tools.....\$15.29 per pair

Alundum Stones

Specifically designed stones for grinding glass. 6" x 1" x 1".
 B6 stone: 150 grit.....\$39.65
 B7 stone: 220 grit.....\$39.65

Inlay Tools

3 piece set. Small tools for inlay work. Metal handles.
 IT-1Spatula - 7" \$10.39
 IT-2.....Scriber - 6.5" \$6.15
 IT-3..... Spreader - 6.25" \$6.15

Glass Brush..... \$99.89
 Fibreglass stick brush. Plastic covering can be cut down to expose brush as used.

Bright Boy: scrubber..... \$26.19
 Size: 2 1/4" x 1 1/8" x 3/8"

Kevlar Gloves

Non asbestos woven kevlar gloves for the maximum protection when loading work in or out of the kiln.
 Kevlar Gloves - 14" \$105.00

Leather Welding Gloves

Not as much protection as the Kevlar gloves, but these still offer good protection and they are more flexible for easier handling.
 Leather gloves.....\$32.99

Dust Masks

Disposable #8710 dust mask. Good basic protection when handling dusts of any kinds.

Dust mask.....\$1.99
 Box of 20 masks.....\$37.80

Note: for information on respirators, see the main Greenbarn Catalogue

C-100-6 Cress Kiln

This small kiln is ideal for copper enameling, glass bending, and lost wax process. Comes complete with cycling input control and indicating pyrometer. Ready to plug into a regular 120 volt outlet for immediate operation, it has a maximum intermittent temperature of 2000°F. Specifications: 115 volt, 12 amp. Inside dimensions: 8 1/2" wide, 10" deep, 6 1/2" high. We carry these kilns in stock.

C-100-6 Kiln\$ see kiln section for pricing

Skutt Firebox 8x6 LT Kiln

A solidly built top loading kiln with 3 button computer control in which to do precious metal clay, ceramic glaze tests, glass work or jewellery. Fires to cone 6, so it can handle porcelain and stoneware. It plugs into a standard 120v household outlet, but it does require a 20Amp breaker. Inside dimensions are 8"L x 8"W and 6.5" high.

Firebox 8x6 LT Kiln.....\$ see kiln section for pricing