

**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	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	1830.....Marigold Yellow (C)
1335.....Pea Green	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	1912.....Nude Grey
1422.....Aqua Marine Green	1915.....Dove Grey
1425.....Sapphire	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, or C.

**2 oz. packages:**

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

Standard .....	\$8.75
Group A.....	\$9.50
Group B.....	\$14.25
Group C.....	\$14.75
Group G (contains gold) .....	\$14.95

**Larger package sizes - Special order only:**

Available on special order.

**8 oz. packages:**

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

Standard .....	\$21.00
Group A.....	\$22.25
Group B.....	\$33.25
Group C.....	\$35.00
Group G (contains gold) .....	\$36.00

**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.....\$124.00



**Copper Shapes**

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

A101..... Circle: 1/2".....	\$0.73
A155..... Drop with hole: 9/16".....	0.73
A156..... Oval with hole: 7/8" x 1".....	1.08
A159..... Oval with hole: 7/8" x 1 1/2".....	1.08
A165..... Ring: 1".....	0.73
A215..... Heart: 15/16" x 1 1/16".....	1.08
A215H..... Heart with hole: 15/16" x 1 1/16".....	1.72
A242..... Palette: 2 15/16".....	3.27
A247..... Parallelogram: 1 1/2" x 2 3/4".....	1.64
A248..... Pendant: 1 3/8" x 2".....	1.72
A250..... Pendant: 1 1/2".....	1.45
A259..... Cross: 1 3/8" x 2 1/8".....	0.92
A274-1..... Froggie: 1 1/4".....	1.64
A279-1..... Unicorn: 1 13/16".....	1.45
A280..... Sea Horse: 1 1/2".....	1.51
A281..... Sea Horse: 2 1/2".....	1.45
A282..... Sea Horse: 3".....	1.64
A285..... Moby Dick: 3".....	1.72
A288..... Wild Duck: 2".....	1.72
A294..... Cutlass: 2 1/2".....	1.28
A299..... Butterfly fish: 1 5/8".....	1.28
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".....	1.45
A309..... Seagull: 2 5/8".....	1.45
A310..... Turtle: 1 7/8".....	1.45
A313..... Bat: 1 1/2".....	1.72
A333..... Butterfly: 1 1/4".....	1.72
A335..... Whale: 1 5/8".....	1.45
A338..... Dachsund: 2 1/8".....	1.45
A341..... Penguin: 1 3/4".....	1.72
A342..... Butterfly: 1 3/4".....	1.45
A352..... Seagull: 2 1/2".....	1.72
A353..... Maple Leaf: 2" x 2 1/8".....	1.64
A356..... Cross: 1 1/16" x 1 7/16".....	1.28
A370..... Elephant: 1 1/2".....	1.45
A371..... Donkey: 1 1/4".....	1.45
A371-1..... Teddy Bear: 1 3/8".....	1.45
A371-2..... Piggie: 1 9/16".....	1.72
A373..... Small Star: 7/8".....	0.92
A373-1..... Large Star: 1 3/4".....	1.23
A386..... Cross: 3/4" x 1 1/4".....	0.92
A811..... Bird: 2 1/16".....	1.45
A812..... Parrot: 2 1/4".....	1.45
A812-1..... Hummingbird: 1 3/4".....	1.45

Guage Chart		
B&S Guage	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

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.



**BULK COPPER SHAPES :**  
 - 20% off when ordering Lb. quantities of the above shapes.  
 - Please inquire for availability

**COPPER SHAPES**

- Re: **BULK PRICES**

- see below for 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
A159..... Oval with hole: 7/8" x 1 1/2".....	80
A165..... Ring: 1".....	105
A215..... Heart: 15/16" x 1 1/16".....	100
A215H..... Heart with hole: 15/16" x 1 1/16".....	100
A242..... Palette: 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
A274-1 .... Froggie: 1 1/4".....	122
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
A333..... Butterfly: 1 1/4".....	162
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
A353..... Maple Leaf: 2" x 2 1/8".....	36
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
A373-1 .... Large Star: 1 3/4".....	64
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**

18 or 19 gauge copper.

**Flat Shapes**

Square: 12" x 12": 19 guage .....	\$27.95
Square: 12" x 12": 22 guage .....	\$16.75
Circle: 3".....	\$3.25
Circle: 4".....	\$3.95
Circle: 6".....	\$8.35
Circle: 8".....	\$14.75

**Switch Plates**

F856 ..... Single Toggle.....	\$4.95
F857 ..... Double Toggle .....	\$8.75
F907 ..... Triple Toggle.....	\$11.95
F855 ..... Duplex Receptacle.....	\$4.95

**Picture Frames**

F1057 ..... Picture frame: 4"x4".....	\$3.25
F1058 ..... Picture frame: 5"x5".....	\$4.95

**Crackle Colors**

Lead free. For spraying or dipping. Can produce crackle effects when fired over enamels on copper. Dry powder, add water to mix. Can be mixed to create any color you want. Lead free. Do not allow to dry out in the jar once mixed. 8 oz packages.

533..... White.....	\$9.95
767..... Peacock Blue .....	\$9.95
769..... Goldenrod .....	\$9.95
770..... Princeton .....	\$9.95
771..... Flame Red .....	\$9.95
772..... Black .....	\$9.95
788..... Cocoa .....	\$9.95
790..... Imperial .....	\$9.95
791..... Hunter .....	\$9.95
799..... Sky Blue.....	\$9.95
800..... Petal .....	\$9.95
801..... Hyacinth.....	\$9.95
929..... Chartreuse .....	\$9.95
930..... Chinese Red .....	\$9.95
935..... Robin Egg Blue.....	\$9.95
936..... Beige.....	\$9.95
937..... Coral .....	\$9.95
940..... Mouse Grey .....	\$9.95

**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.....	\$15.95
ALV-2 Assorted transparents .....	\$15.95
ALV-3 Assorted opaques.....	\$15.95
ALV-4 Variegated Venetian type.....	\$15.95
ALV-5 Easy Scrolling .....	\$15.95

**Opaque Enamel Threads**

Lead Free. Thin colored fibers for firing onto enamel for line effects or scrolling. 1 oz packages.

OTV-Black.....	\$6.75
OTV-White.....	\$6.75
OTV-Blue.....	\$6.75
OTV-Red.....	\$6.75
OTV-Turquoise .....	\$6.75
OTV-Green.....	\$6.75
OTV-Yellow .....	\$6.75
OTV-7 color mix.....	\$6.75

- 8 oz. packages available on special order: \$26.75 each

**Millifiore**

Small opaque flowerette glass chips from Italy. The same as you see in some glass paperweights. Sold as a mix of about 12 patterns. 1 ounce package contains approx. 50 to 100 pieces. varies depending on size of pieces

1 ounce pkg:.....	\$16.50
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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. When fired, the separation enamel is dissolved into and spreads apart the underlying enamel to result in marbelized effects. Dry and fire at 1450 F. for 2-3 minutes.

	1 oz	8 oz.
SE-2..... Separation Enamel.....	\$6.25	\$30.50

**Base Coats: Liquid**

BC-1070L..... White .....	pint.....	\$26.95
BC-303L..... Clear .....	pint.....	\$26.95

**Base Coats: Dry**

BC-1070..... White.....	2 oz .....	\$5.95
BC-1070..... White.....	8 oz .....	\$11.95
BC-303..... Clear.....	8 oz .....	\$11.95

**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 .....	\$26.95
LCE-2 Clear .....	pint .....	\$26.95
LCE-3 White .....	pint .....	\$26.95

**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.....	\$2.55..... \$7.45
A-2 .....	Agar Solution.....	\$1.99..... \$5.95
A-3 .....	Enamel Holding Agent .....	\$1.99..... \$5.95
A-4 .....	Squeegee Oil.....	\$4.45..... \$17.15
A-5 .....	Thinning Oil No. 5.....	\$6.85..... \$26.25

**Scalex: Metal Cleaner**

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 .....	\$4.50..... \$14.50

**Sparex: Metal Cleaner**

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

C-3.....	Sparex.....	\$10.75
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**Mica Sheets**

Mica Sheet: 4"x4"- MIC-2 .....	\$3.95 ea
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**M2 - Silver Foil**

Fine silver sheets. 3 1/4" x 3 1/4" square. Buy a book of 25 sheets or individual sheets.

Silver Foil: per sheet.....	\$2.25
Book of 25 sheets.....	\$51.50

**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). One book covers over 750 square inches. Instructions are included in the package.

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 .....

.....	\$19.25
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**M4F - Copper Cloissone wire Flat**

Flat copper wire for cloissone. 18 ga. x 30 ga. (0.40" x .030") Available per meter or in 50 foot coil.

Per meter .....	\$1.95
50 foot coil .....	\$27.55

**Overglaze lustres**

Liquid metal lustres for adding detail on top of enamels.  
 Laguna Bright Gold: 2 gr ..... \$23.95  
 Laguna Palladium: 2 gr ..... \$23.95  
 Duncan Mother of Pearl: 1/2 oz ..... \$8.95

**Mesh Trivets**

Stainless steel mesh racks for firing pieces on. Non flaking Ni-chrome stainless. Supplied flat. To make legs to elevate rack, corners can be bent down in a vice.  
 480.....3" square .....\$4.25  
 481.....4" square .....\$4.60  
 482.....6" square .....\$12.50

**3 Point Metal Trivets**

Stainless steel metal trivets for supporting work during firing. Excellent for most sizes and shapes  
 #53.....2" point to point ..... \$3.85  
 #54.....2.75" point to point ..... \$5.30  
 #55.....3.5" point to point ..... \$5.65

**Sifters**

Lightweight plastic sifters with 60 mesh screen. Used to sift enamels onto copper.  
 No. 1.....1/2" sifter..... \$3.90  
 No. 2.....1" sifter..... \$4.95  
 No. 3.....2" sifter..... \$5.15

**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" ..... \$22.75  
 LS-32..... Siftaline tool: 1/32" ..... \$22.75

**Firing Forks**

Heavy gauge handling forks for removing items. Both are 21" in overall length.  
 HF-2145: Firing Fork - 4.5" tine x 5 1/2" .....\$25.95

**Scrolling Tools**

Equipped with protective shields. For working with front loading kilns.  
 SC-21: Heavy Duty Scrolling Tool - 21 inch: ..... \$35.50  
 K5: Pair Small Scrolling Tool: - pair of 9" tools\$11.50 per pair

**Hole Punches**

Hole Punch: 1 hole..... \$8.25

**Alundum Stones**

Stone for initial stoning. 6" x 1" x 1".  
 B6 stone: 150 grit.....\$15.75  
 B7 stone: 220 grit.....\$15.75

**Inlay Tools**

3 piece set. Small tools for inlay work. Metal handles.  
 IT-1 .....Spatula - 7" ..... \$7.00  
 IT-2.....Scriber - 6.5" ..... \$5.25  
 IT-3..... Spreader - 6.25" ..... \$5.25

**Other Tools:**

Tong: UT-1600 - 16" ..... \$11.00  
 Stainless tong with coil snap grip ensures firm grip  
 Glass Brush ..... \$41.50  
 Fibreglass stick brush. Plastic covering can be cut down to expose brush as used.  
 Bright Boy: scrubber..... \$10.00  
 Size: 2 1/4" x 1 1/8" x 3/8"  
 Jeweller's Saw Frame ..... \$28.75  
 Saw Blades: per dozen ..... \$4.75

**Kevlar Gloves**

Non asbestos woven kevlar gloves for protection when loading work in or out of the kiln.  
 Kevlar Gloves - 14" ..... \$54.00

**Leather Welding Gloves**

Not as much protection as the Kevlar gloves, but good for some situations. Lined interior.  
 Leather gloves.....\$21.00

**Dust Masks**

Disposable #8710 dust mask. Good basic protection when handling dusts of any kinds.  
 Dust mask.....\$1.99  
 Box of 20 masks.....\$37.81

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 of catalog

**129-FL Olympic Kiln (special order only)**

Special order: Allow 6-8 weeks for delivery. A solidly built front loading test kiln in which to do glaze tests or jewelry. Fires to cone 6, so it can handle porcelain and stoneware. It plugs into any standard household outlet. Inside dimensions are 11.25" wide, 9" deep and 6.5 to 9.5" high. Operates on normal 110 Volt household circuit. This kiln does not normally come with a kiln sitter. A kiln sitter is available on special order from the factory.

129 FL Kiln.....\$ call for pricing

Note: A side opening version of kiln is available on special order.