

# LOW FIRE GLAZES

GLAZES



FW 2000  
Clear



FW 2001  
White



FW 2002  
Midnight



FW 2003  
Garnet



FW 2004  
Cobalt



FW 2005  
Lemon



FW 2006  
Tangerine



FW 2007  
Grape



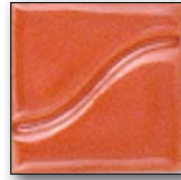
FW 2008  
Sky



FW 2009  
Bubblegum



FW 2010  
Jade



FW 2011  
Watermelon



FW 2012  
Chocolate



FW 2013  
Battleship



FW 2014  
Ruby



FW 2015  
Ivy



FW 2016  
Lilac



FW 2017  
Mulberry



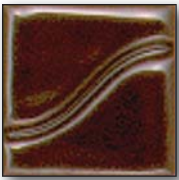
FW 2018  
Key Lime



FW 2019  
Rose



FW 2020  
Sun



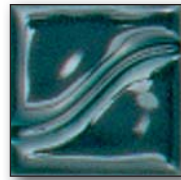
FW 2021  
Mahogany



FW 2022  
Pewter



FW 2023  
Forest



FW 2024  
Teal



FW 2025  
Camel



FW 2026  
Blueberry



FW 2027  
Aqua



FW 2028  
Marigold



FW 2029  
Sand



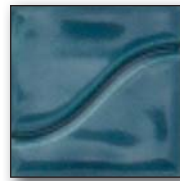
FW 2030  
Plum



FW 2031  
Fern



FW 2032  
Sunflower



FW 2033  
Cerulean



FW 2034  
Periwinkle



FW 2035  
Sapphire



FW 2036  
Turquoise



FW 2037  
Apricot



FW 2038  
Peacock



FW 2039  
Violet



FW 2040  
Hyacinth



FW 2041  
Fawn



FW 2042  
Blush



FW 2043  
Chartreuse



FW 2044  
Blond



FW 2045  
Bone



FW 2046\*  
Spruce

# LOW FIRE GLAZES

## GLAZEWERKS® FIREWARE® Gloss Glazes — Cone 06 - 04

Fireware® Glazes are lead-free gloss glazes designed for the artist in everyone. Fireware® Glazes provide an artist's palette of true, bright colors for creating exciting and colorful ceramic art. These low-fire glazes are formulated non-toxic for safe use in studios and classrooms. All are dinnerware safe if properly applied and fired. The glazes should be applied to bisqueware by brushing on three even flowing coats. Allow the glaze to dry between coats. Glazes may overlap by allowing each to dry before the next is applied. Fire to cone 06 or 04. Packaged in pints and gallons; there are also three sampler kits available containing twelve 4-oz. jars of the glaze colors.

Cat. No.	Name	Opacity/ Translucency	Pint	Gallon	Cat. No.	Name	Opacity/ Translucency	Pint	Gallon
FW2000	Clear	TP	\$6.58	\$29.59	FW2024	Teal	O	\$9.15	\$49.78
FW2001	White	O	7.49	36.55	FW2025	Camel	TL	8.14	41.78
FW2002	Midnight	O	8.72	46.42	FW2026	Blueberry	STL	9.62	52.46
FW2003	Garnet	TL	9.24	50.01	FW2027	Aqua	TL	8.12	41.68
FW2004	Cobalt	STL	8.28	42.94	FW2028	Marigold	TL	9.05	48.99
FW2005	Lemon	TL	8.15	41.87	FW2029	Sand	STL	7.50	37.35
FW2006	Tangerine	TL	9.96	55.55	FW2030	Plum	TL	10.52	56.76
FW2007	Grape	STL	9.43	51.31	FW2031	Fern	O	7.49	36.55
FW2008	Sky	TL	9.73	52.84	FW2032	Sunflower	TL	10.95	56.88
FW2009	Bubblegum	TL	9.06	49.14	FW2033	Cerulean	STL	8.21	42.37
FW2010	Jade	TL	9.14	49.71	FW2034	Periwinkle	O	8.13	41.71
FW2011	Watermelon	TL	11.11	70.63	FW2035	Sapphire	STL	8.72	46.44
FW2012	Chocolate	STL	8.01	40.78	FW2036	Turquoise	STL	9.91	53.78
FW2013	Battleship	STL	9.81	53.19	FW2037	Apricot	TL	8.62	45.32
FW2014	Ruby	STL	14.25	89.96	FW2038	Peacock	O	9.64	52.69
FW2015	Ivy	STL	8.64	45.84	FW2039	Violet	O	10.09	55.73
FW2016	Lilac	TL	9.75	52.87	FW2040	Hyacinth	O	9.50	51.36
FW2017	Mulberry	STL	10.12	55.76	FW2041	Fawn	TL	7.49	36.58
FW2018	Key Lime	TL	8.41	43.92	FW2042	Blush	TL	7.61	37.97
FW2019	Rose	TL	9.26	50.01	FW2043	Chartreuse	TL	10.41	56.12
FW2020	Sun	TL	8.77	46.78	FW2044	Blond	TL	9.06	49.19
FW2021	Mahogany	O	10.09	66.66	FW2045	Bone	TL	8.81	47.16
FW2022	Pewter	TL	9.39	50.13	FW2046	Spruce	TL	7.74	38.64
FW2023	Forest	O	8.62	45.63					

TP - Transparent

TL - Translucent

STL - Semi-Translucent

O - Opaque

### Sampler Kits

Cat. No.	Description	Price per Kit
FW2154	Kit A Twelve 4 oz. jars: Garnet, Lemon, Tangerine, Grape, Sky, Bubblegum, Jade, Watermelon, Chocolate, Battleship, Ivy, Cerulean	\$43.50
FW2155	Kit B Twelve 4 oz. jars: Ruby, Lilac, Mulberry, Key Lime, Rose, Sun, Mahogany, Pewter, Forest, Teal, Camel, Blueberry	43.50
FW2156	Kit C Twelve 4 oz. jars: Aqua, Marigold, Sand, Plum, Fern, Apricot, Violet, Fawn, Periwinkle, Turquoise, Blush, Blond	43.50
GWFWTB	Sample Tile Board	40.00

Free with GLAZEWERKS® Fireware® purchase of \$400.00 or more! (after discounts) (Allow 3-4 weeks for delivery)

GLAZEWERKS® Discount Schedule    \$100 - 199 = 10%    \$200 - 299 = 15%    \$300 & up = 20%

\* All GLAZEWERKS® Fireware® Gloss Glazes are certified Nontoxic and approved for use by all ages except: FW 2046 - Contains Soluble Copper, Approved for use by grades 7-12.

Every effort has been made to insure the accuracy of the glaze colors shown. Actual results may vary due to the clay body used, application technique and firing cycle.

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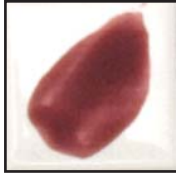
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# LOW FIRE GLAZES

GLAZES



MK2902  
Medici Midnight



MK2903  
Malaga Maroon



MK2904\*  
Cordoba Cobalt



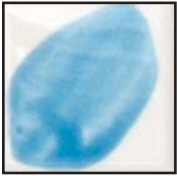
MK2905  
Livorno Lemon



MK2906  
Oran Orange



MK2907  
Granada Grape



MK2908  
Seville Sky



MK2910  
Jedda Jade



MK2911  
Madrid Melon



MK2912  
Capri Coffee



MK2913  
Cherasco Charcoal



MK2914  
Roma Red



MK2916  
Verona Violet



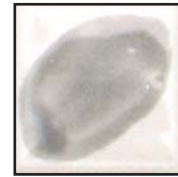
MK2918  
Lecce Lime



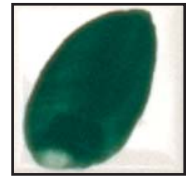
MK2919  
Pisa Pink



MK2921  
Bologna Brown



MK2922  
Tuscany Taupe



MK2923  
Genoa Green



MK2924  
Toledo Teal



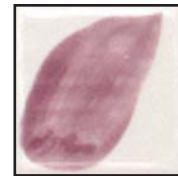
MK2926  
Iglesias Indigo



MK2927  
Turin Turquoise



MK2928  
Savona Sun



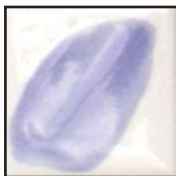
MK2930  
Forli Fuschia



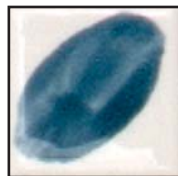
MK2931  
Florence Fern



MK2932  
Busto Butterscotch



MK2934  
Belluno Blue Fleck



MK2935  
Abruzzo Azure



MK2936  
Mediterranean Blue



MK2937  
Naples Nectarine



MK2940  
French Riviera



MK2942  
Samos Salmon



MK2943\*  
Chania Chartreuse



MK2944  
Trento Tan



MK2947  
Barcelona Blue



MK2900  
White Base

# LOW FIRE GLAZES

## GLAZEWERKS® Maiolica Glazes — Cone 05 - 04

Apply the Maiolica white base by dipping or pouring (one coat only). The white base may also be applied by brushing on three (3) even, flowing coats. Allow the piece to dry between coats when brushing. Once the base glaze is dry to the touch, the Maiolica colors are then painted on the base with one (1) coat. The colors are generally applied by brushing, one color at a time, allowing to dry between colors. One color may be layered over another. All Maiolica glazes can be thinned with water for translucency or thickened with Epsom salt (magnesium sulfate) to increase opacity. Fire to cone 05 or 04.

Cat. No.	Name	4 oz.	Pint	Gallon	Cat. No.	Name	4 oz.	Pint	Gallon
MK2900	White Base	n/a	\$ 7.00	\$29.37	MK2923	Genoa Green	\$ 3.65	\$ 10.58	n/a
MK2902	Medici Midnight	\$ 4.05	11.85	n/a	MK2924	Toledo Teal	4.49	13.83	n/a
MK2903	Malaga Maroon	4.40	13.17	n/a	MK2926	Iglesias Indigo	4.09	11.88	n/a
MK2904	Cordoba Cobalt	5.04	14.34	n/a	MK2927	Turin Turquoise	3.58	10.12	n/a
MK2905	Livorno Lemon	3.96	11.49	n/a	MK2928	Savona Sun	3.63	10.36	n/a
MK2906	Oran Orange	6.30	19.53	n/a	MK2930	Forli Fushia	4.43	13.55	n/a
MK2907	Granada Grape	4.48	13.66	n/a	MK2931	Florence Fern	3.12	7.93	n/a
MK2908	Seville Sky	4.53	14.22	n/a	MK2932	Busto Butterscotch	4.36	12.00	n/a
MK2910	Jedda Jade	3.96	11.68	n/a	MK2934	Belluno Blue Fleck	3.32	8.61	n/a
MK2911	Madrid Melon	6.86	22.04	n/a	MK2935	Abruzzo Azure	4.38	12.07	n/a
MK2912	Capri Coffee	3.42	9.07	n/a	MK2936	Mediterranean Blue	4.50	14.14	n/a
MK2913	Cherasco Charcoal	3.72	10.65	n/a	MK2937	Naples Nectarine	4.34	11.96	n/a
MK2914	Roma Red	6.51	20.45	n/a	MK2940	French Riviera	3.82	10.88	n/a
MK2916	Verona Violet	4.39	12.67	n/a	MK2942	Samos Salmon	3.21	8.23	n/a
MK2918	Lecce Lime	3.48	9.39	n/a	MK2943	Chania Chartreuse	4.08	11.86	n/a
MK2919	Pisa Pink	3.63	10.36	n/a	MK2944	Trento Tan	3.62	10.14	n/a
MK2921	Bologna Brown	3.36	8.77	n/a	MK2947	Barcelona Blue	3.55	9.75	n/a
MK2922	Tuscany Taupe	3.76	10.66	n/a					

### Sampler Kits

Cat. No.	Description	Price per Kit
MK2954	Kit A Two pints MK2900 and six 4 oz. jars: Medici Midnight, Malaga Maroon, Oran Orange, Granada Grape, Genoa Green, Abruzzo Azure	\$42.50
MK2955	Kit B Two pints MK2900 and six 4 oz. jars: Livorno Lemon, Seville Sky, Jedda Jade, Madrid Melon, Pisa Pink, Toledo Teal	42.50
MK2956	Kit C Two pints MK 2900 and six 4 oz. jars: Roma Red, Verona Violet, Bologna Brown, Turin Turquoise, Savona Sun, Florence Fern	42.50
GWMKTB	Sample Tile Board	40.00
Free with GLAZEWERKS® Maiolica purchase of \$400.00 or more! (after discounts) (Allow 3-4 weeks for delivery)		

GLAZEWERKS® Discount Schedule    \$100 - 199 = 10%    \$200 - 299 = 15%    \$300 & up = 20%

\* All GLAZEWERKS® Maiolica Glazes are certified Nontoxic and approved for use by all ages except: MK 2904 - Contains Soluble Cobalt, MK 2943- Contains Soluble Vanadium, Approved for use by grades 7-12.

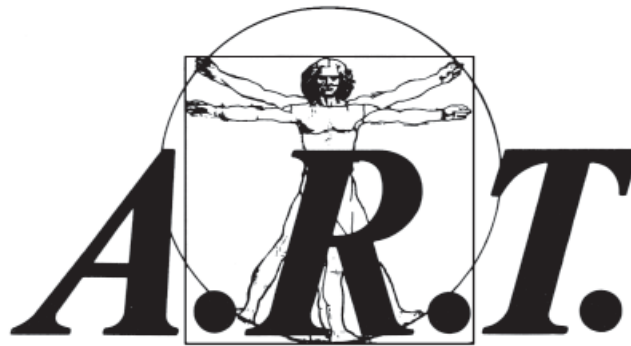
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## GLAZEWERKS® School Project Kits

FUN FORMULA: School Kits + Kids = CREATIVITY



Each Kit Contains 1 Pint white base  
and Six Customized GLAZEWERKS®  
Maiolica Color Glazes:

Livorno Lemon, Seville Sky, Jedda Jade,  
Madrid Melon, Pisa Pink, Toledo Teal

4 oz. Containers

Bisque Tiles 4 1/4" x 4 1/4" Ready to Use



12 Tiles - Cat. No. SCKT1 \$44.60

20 Tiles - Cat. No. SCKT2 \$68.00

For additional tiles and tile setters, see  
page 115, for additional Maiolica colors  
see pages 12 and 13.



### Directions for Use

Apply the Maiolica white base by dipping or pouring (one coat only). The white base may also be applied by brushing on three (3) even, flowing coats. Allow the tiles to dry between coats when brushing. Once the base glaze is dry to the touch, the Maiolica colors are then painted on the base with one (1) coat. The colors are generally applied by brushing, one color at a time, allowing to dry between colors. One color may be layered over another. Fire to cone 05 or 04. Since the tiles are already bisqued, there is no need for two firings.

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## A.R.T. Raku Glazes

A series of glazes developed expressly for raku firing. All of these glazes mature at 1850°F (cone 05) or higher. The color names describe the predominate colors that will normally appear in an average reduction firing. A completely different range of colors, such as silvers or bronzes may appear in heavier reduction firings.

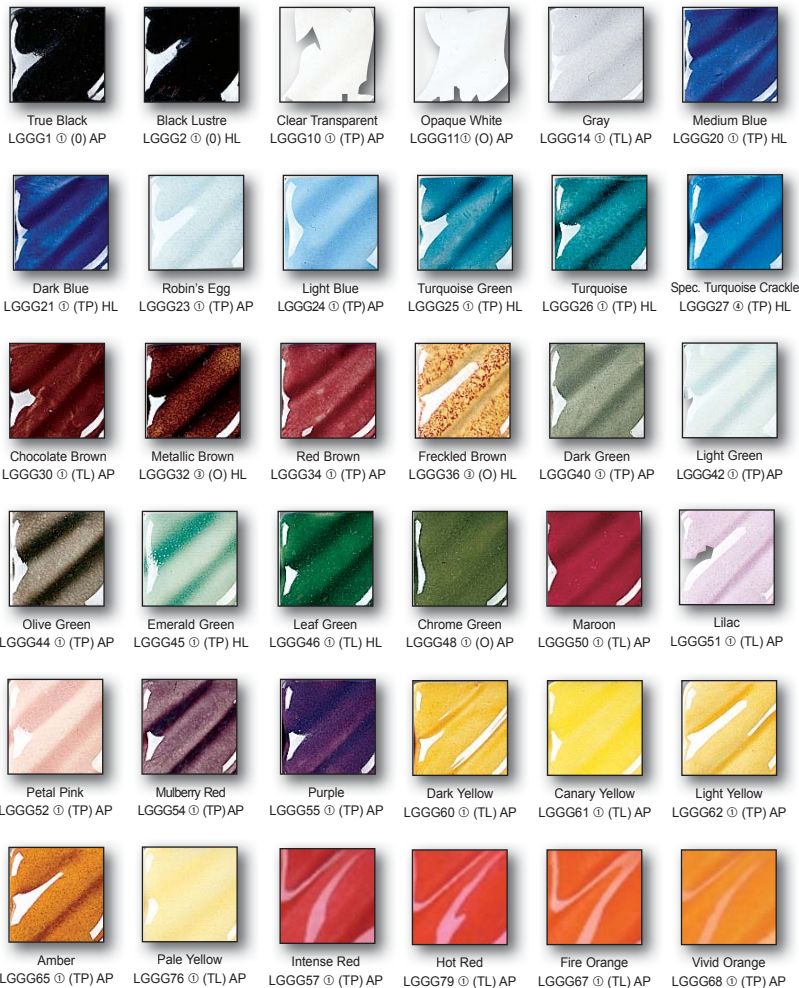
Cat. No.	Color	25 lbs.	5 lbs.	1 lb.
RAKUWC	White Crackle	\$ 79.67 (3.19)	\$18.12 (3.62)	\$ 5.31
RAKUCLEAR	Clear	115.00 (4.60)	25.40 (5.08)	6.38
RAKUCM	Copper Matte	499.40 (19.98)	102.26 (20.45)	22.13
RAKUBR	Blue Rose	245.75 (9.83)	51.30 (10.26)	11.83
RAKURG	Red Green	196.94 (7.88)	41.57 (8.31)	9.98

## Amaco® Gloss Glazes — Lead Free,\* cone 05

In this popular Gloss Glaze Series there are bright opaque and transparent colors. These glazes flow during firing to correct most application defects. Because of their flexibility, good results can be obtained on most A.R.T. clays.

The following tips will help you attain the best results when firing brilliants, especially LG53, LG56 and LG66: apply heavily; fire pottery glazed with brilliants at the same time, leaving space between pieces; fire quickly (3-4 hours) with peepholes open; cone limit 06.

The glazes are applied on bisque or greenware by brushing, dipping, pouring or spraying. Firing range is cone 07 to cone 02; recommended firing temperatures are cones 06-05. \* All LG Series glazes are lead free in liquid and dry form except 9, 32, 53, 56 and 66.



Cat. No.	Color	Pint	Gallon
LGGG1	True Black (1)	\$15.98	\$81.00
LGGG2	Black Lustre (1)	15.95	n/a
LGGG10	Clear Transparent (2)	12.35	46.00
LGGG11	Opaque White (1)	13.95	69.00
LGGG14	Gray (1)	15.45	n/a
LGGG20	Medium Blue (1)	15.45	n/a
LGGG21	Dark Blue (1)	17.45	88.00
LGGG23	Robin's Egg (1)	15.45	n/a
LGGG24	Light Blue (1)	15.45	n/a
LGGG25	Turquoise Green (1)	15.45	n/a
LGGG26	Turquoise (1)	15.45	n/a
LGGG27	Spec. Turq. Crackle (4)	15.45	n/a
LGGG30	Chocolate Brown (2)	15.95	n/a
LGGG32	Metallic Brown (2)	15.95	81.00
LGGG34	Red Brown (3)	17.45	n/a
LGGG36	Freckled Brown (2)	17.45	n/a
LGGG40	Dark Green (1)	15.45	n/a
LGGG42	Light Green (1)	15.45	n/a
LGGG44	Olive Green (1)	15.45	n/a
LGGG45	Emerald Green (2)	15.45	n/a
LGGG46	Leaf Green (1)	15.45	75.00
LGGG48	Chrome Green (1)	15.45	n/a
LGGG50	Maroon (3)	20.95	n/a
LGGG51	Lilac (2)	17.45	n/a
LGGG52	Petal Pink (1)	15.45	n/a
LGGG54	Mulberry Red (2)	17.45	n/a
LGGG55	Purple (2)	20.95	n/a
LGGG60	Dark Yellow (2)	15.45	n/a
LGGG61	Canary Yellow (1)	15.45	75.00
LGGG62	Light Yellow (2)	15.45	n/a
LGGG65	Amber (2)	17.45	88.00
LGGG76	Pale Yellow (1)	15.45	n/a
LGGG57	Intense Red	20.95	n/a
LGGG59	Hot Red	20.95	n/a
LGGG67	Fire Orange	20.95	n/a
LGGG68	Vivid Orange	20.95	n/a

Amaco® Discount Schedule    \$100 - 199 = 5%    \$200 - 299 = 10%    \$300 & up = 15%

See page 18 for Lead and/or Cadmium Content and Release Information for Amaco® Glazes.

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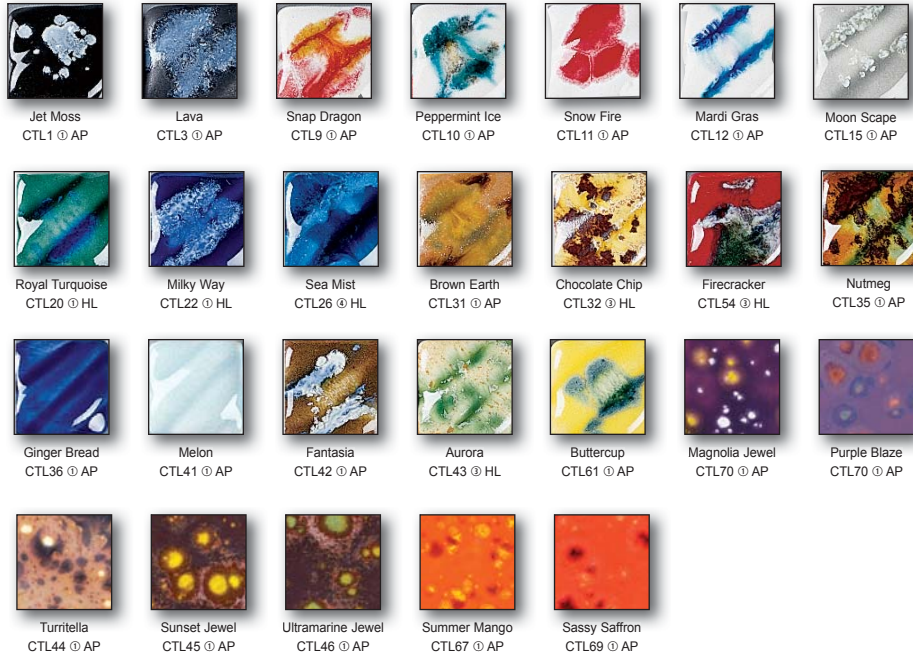
# LOW FIRE GLAZES

## Amaco® Crystaltex Glazes — Lead Free,\* cone 05

Amaco Crystaltex Glazes are for the potter who dares to try something novel. Multicolor effects can be subtle as with CTL32, which fires to a creamy yellow peppered with rich brown, or they can be flashy and bright like the red, white and blue of CTL54 Firecracker. No two pieces will ever be alike, but all will be unique.

These liquid glazes consist of a basic color with the addition of one or more crystals of contrasting colors. For application by dipping or pouring, thorough stirring of the glaze is necessary since the crystals settle to the bottom of the jar. A more controlled decorative effect is obtained by brushing: the brush is dipped in the glaze at the top of the jar and two or more coats applied. Then the crystals, which will have settled to the bottom, are lifted with the brush and placed where desired. Crystals fan out on flat horizontal surfaces and run on vertical pieces. Best results are obtained at cone 05.

GLAZES



Cat. No.	Color	Pint
CTL1	Jet Moss (1)	\$18.49
CTL3	Lava (1)	18.49
CTL9	Snap Dragon (1)	18.49
CTL10	Peppermint Ice (5)	18.49
CTL11	Snow Fire (1)	18.49
CTL12	Mardi Gras (5)	18.49
CTL15	Moonscape (1)	18.49
CTL20	Royal Turquoise (1)	18.49
CTL22	Milky Way (1)	22.49
CTL26	Sea Mist (4)	18.49
CTL31	Brown Earth (1)	18.49
CTL32	Chocolate Chip (3)	22.49
CTL35	Nutmeg (1)	22.49
CTL36	Ginger Bread (1)	22.49
CTL41	Melon (1)	18.49
CTL42	Fantasia (5)	18.49
CTL43	Aurora (3)	18.49
CTL54	Firecracker (3)	22.49
CTL61	Buttercup (1)	18.49
CTL70	Magnolia Jewel (2)	22.49
CTL71	Purple Blaze (2)	22.49
CTL44	Turritella (2)	22.49
CTL45	Sunset Jewel (2)	22.49
CTL46	Ultramarine Jewel (2)	18.49
CTL67	Summer Mango (2)	22.49
CTL69	Sassy Saffron (2)	22.49

## Amaco® Opalescent Glazes — Lead Free, cone 05

Although Amaco Opalescent Glazes may be used on most A.R.T. clays, they develop their greatest opalescence and most interesting textures when applied over A.R.T. Terra Cotta (Page 4). Most of the Opalescent Glazes have a high gloss with an iridescence similar to mother-of-pearl. Best results are achieved with three or four applications of glaze. On textured ware the glaze flows thin on relief and thick in incised areas, giving an added dimension to the surface. An overspray of a second color is a particularly effective combination.

Opalescent Glazes can be used very effectively in Raku firing. We suggest controlled experimentation with Opalescent Glazes (for example O42, O23) at cone 5. When fired at this temperature on the inside of a stoneware bowl, the glaze flows to produce a multi-hued bottom and thins at the rim to expose more of the clay body.

Opalescent Glazes are supplied in liquid, ready-to-use form. They are applied on bisque or greenware by brushing, dipping, pouring or spraying. On red bisque these glazes should be applied rather heavily, and a slow rather than a fast firing is best. Firing range is from cone 06 to cone 03. Recommended firing temperature is cone 05.



Cat. No.	Color	Pint
O2	Black Tulip (1)	\$ 14.95
O10	Transparent Pearl (1)	14.95
O11	White Clover (1)	14.95
O12	Tawny (1)	14.95
O20	Bluebell (1)	14.95
O21	Aquamarine (1)	14.95
O23	Sapphire Blue (1)	14.95
O26	Turquoise (1)	14.95
O30	Autumn Leaf (1)	14.95
O42	Moss Green (1)	14.95
O52	Fuchsia (1)	14.95
O54	Dusty Rose (1)	14.95
O57	Mottled Burgundy (1)	14.95

Amaco® Discount Schedule	\$100 - 199 = 5%	\$200 - 299 = 10%	\$300 & up = 15%
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See page 18 for Lead and/or Cadmium Content and Release Information for Amaco® Glazes.

# LOW FIRE GLAZES

## Amaco® F-Series Glazes — Lead Free, cone 05

Amaco F-Series Glazes are fritted, leadless compositions. They are semi-opaque and fire with a high gloss. Colors are more intense and brilliant than those in many glaze series. Because F-Series Glazes are leadless, they are recommended for most types of pottery made from A.R.T. claybodies.

Brushing, dipping, pouring or spraying are suitable methods for application on greenware or bisque. F-Series Glazes have a recommended firing temperature of cone 05. These glazes should be applied on fired bisque.



Cat.No.	Color	Pint	Gallon
F1	Jet Black (1)	\$14.49	n/a
F10	Clear Transparent (1)	12.45	\$52.00
F11	White (1)	14.45	n/a
F21	Navy (1)	14.45	n/a
F50	Rose (1)	17.95	n/a
F51	Mauve (1)	14.45	n/a
F52	Burgundy (1)	17.95	n/a
F55	Pink (1)	14.45	n/a
F61	Lemon Yellow (1)	14.45	n/a
F65	Amber (1)	14.45	n/a
F66	Orange	21.95	n/a

GLAZES

## Amaco® Matt Glazes — Lead Free, cone 05

The Amaco LM Matt Glaze Series is one of the most pleasing for decorative art pottery. These glazes are suitable for glazing pottery formed from most A.R.T. clays. Because LM Matt Glazes are nonflowing, they are adaptable for some unique types of decoration.

LM Matt Glazes are supplied in liquid, ready to use form. Brushing, pouring, dipping or spraying are suitable methods of application on bisque or greenware. Firing range for these glazes is cone 06 to cone 02, and recommended firing temperature is cone 05. These glazes should be applied on fired bisque. Slow firing is recommended.



Cat. No.	Color	Pint
LM1	Satin Black (1)	\$ 14.50
LM10	Transparent Matt (1)	14.50
LM11	Opaque White (1)	14.50
LM15	Dove Gray (1)	14.50
LM16	Elephant Hide (1)	14.50
LM20	Blue Iris (1)	14.50
LM25	Robin Egg Blue (1)	14.50
LM30	Cocoa Brown (1)	14.50
LM42	Parakeet Green (1)	14.50
LM46	Dark Green (1)	14.50
LM50	Burgundy (1)	19.95
LM52	Carnation Pink (1)	14.50
LM58	Purple (1)	14.50
LM65	Butterscotch (1)	19.95
LM231	Chestnut Brown (1)	14.50
LM244	Blue Green (1)	14.50

Amaco® Discount Schedule    \$100 - 199 = 5%    \$200 - 299 = 10%    \$300 & up = 15%

See page 18 for Lead and/or Cadmium Content and Release Information for Amaco® Glazes.

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# LOW FIRE GLAZES

## Amaco® Alligator Glazes — cone 06 - 05

No two pieces glazed with Amaco LT Alligator Glazes are ever alike due to the many variations in texture which occur in firing. Various colored matt textures predominate at the lower firing temperatures and gloss textures at the higher with a mingling of matt and gloss between the extremes. These glazes may be used on pottery shapes formed from most A.R.T. clays. When applied over A.R.T. Terra Cotta clay (page 4), the clay color showing through high relief contrasts or blends with the glaze color, and the entire piece is enriched by the warm undertones.

LT Alligator Glazes are supplied in liquid, ready-to-use form. They are applied on bisque or greenware by brushing, pouring, dipping or spraying. Firing range is from cone 07 to cone 04, and the recommended firing temperatures are cones 06-05. Note: We recommend firing LTAG22 at cone 06 because it flows more than other glazes in this series.

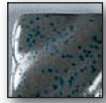
GLAZES



Crystal Gun Metal  
LTAG3 ① (O) HL



Speckled Green  
LTAG12 ② (O) AP



Green Stone  
LTAG16 ③ (O) AP



Tahitian Blue  
LTAG22 ② (O) HL



Tobacco Brown  
LTAG30 ② (TL) HL



Moss Agate  
LTAG48 ① (TL) HL



Sand  
LTAG113 ③ (TL) HL



Tiger Eye  
LTAG161 ③ (TL) HL



Mottled Orange  
LTAG166 ③ (TL) HL

Cat. No.	Color	Pint
LTAG3	Crystal Gun Metal (5)	\$18.95
LTAG12	Speckled Green (1)	14.50
LTAG16	Green Stone (1)	14.50
LTAG22	Tahitian Blue (4)	13.95
LTAG30	Tobacco Brown (3)	18.95
LTAG48	Moss Agate (2)	18.95
LTAG113	Sand (3)	19.95
LTAG161	Tiger Eye (3)	19.95
LTAG166	Mottled Orange (3)	19.95

## Ferro Low Fire Earthenware Glaze

A leadless, transparent, glossy glaze base. Requires some suspender such as CMC or magnesium sulfate (see page 37). Cone 07-04  
F857 . . . . . Gloss Clear . . . . . 1 lb. sack - \$3.40 . . . . . 5 lb. sack - \$12.00 . . . . . 25 lb. sack - \$53.75

## Cerdec Low Fire Clear Glaze

The Cerdec glazes were originally developed for use with Cerdec stains and inclusion pigments but testing has shown that they work well and produce a clear, smooth surface on all of A.R.T.'s low-fire clay bodies. Available dry only, so we suggest mixing with a suspender binder like CMC Gum (page 36). Lead-free and food safe but not recommended for grades K-12.

40660F . . . . . Low Fire Clear, 1 lb. dry . . . \$7.00

## Lead and/or Cadmium Content and Release Information for Amaco® Glazes.

The following is a key to all individual glaze listings.

- ① Dinnerware safe. Contains no lead or cadmium bearing ingredients.
- ② Dinnerware safe. Contains some lead and/or cadmium compounds but passes test for lead and cadmium release.
- ③ Contains some lead and/or cadmium compounds and does not pass test for lead and cadmium release. Not recommended for surfaces which come in contact with food or drink.
- ④ Contains no lead or cadmium bearing ingredients. We do not recommend these glazes on surfaces which come in contact with food or drink due to the soft or crackle nature of the glaze, even though they pass tests for lead and cadmium release.
- ⑤ Contains no lead or cadmium release due to the soft crackle nature of the glaze. Not recommended for surfaces which contact food or drink.

Caution: None of these products should be taken internally. They contain ingredients not suitable for ingestion or inhalation.

Note: In order for glazes labeled ① and ② to be dinnerware safe they must be fired to recommended firing temperature. In order for underglazes labeled ① or ② to be dinnerware safe they must be covered with a dinnerware safe clear glaze and fired to the recommended firing temperature. Tableware producers must test all finished ware to establish dinnerware status, due to possible variations in firing temperature and contamination. For complete glaze safety and use information, write for your FREE copy of the AMACO publication, "Art Material Safety In The Classroom And Studio."

Amaco® Discount Schedule    \$100 - 199 = 5%    \$200 - 299 = 10%    \$300 & up = 15%

## For Additional Technical Issues Go To [www.artclay.com](http://www.artclay.com)

After spending hours and sometimes days creating a piece, time and care should be taken when choosing and applying a glaze. It is important to use a clay body and a glaze line which have the same firing ranges. If the clay body and glaze mature at different temperatures, the results can be disastrous. Once the correct body and glaze are determined, one must also be careful in applying the glaze and firing the piece to ensure that the finished glaze will be of the highest quality.

Below we have outlined some of the common problems resulting from incorrect clay body/glaze line match, improper application and firing procedures. The quality of your finished ware can be increased by knowing the cause of an unsatisfactory surface.

## Blistering

Blistering is often caused by glazes being applied too thickly. Air pockets just below the surface of the clay will sometimes cause the glaze to bubble if air can not escape through the glaze. Excess sulphur may also cause blistering in a reduction atmosphere. Raising the bisque temperature to cone 04 or higher will assist in removing the air and sulphur before the glaze firing.

## Color Loss

Color loss is caused by overfiring. When a piece is overfired, there is a disassociation of the coloring oxide resulting in a diluted coloration. Take care to fire pieces to the recommended temperatures.

## Crazing

Development of a fine network of cracks in the glaze is called crazing. It may be readily apparent right from the kiln or it may take months to develop. Crazes are caused by tension between the clay and glaze. The solution is to reduce the material in the glaze which has a high coefficient of expansion (i.e., add silica, decrease feldspar, increase alumina) or to adjust the clay body. Crazing can also be caused by too heavy of a glaze application or the ware in the kiln cooling too rapidly. Using compatible clay bodies and glazes will be a first step to prevent crazing.

## Crawling

Crawling is when the glaze separates during melting, leaving bare spots of clay exposed. This is caused by the glaze not adhering to the bisqueware properly because of dirty ware, grease, oil and/or cracks in the dried glaze. Cracks in the dried glaze should be rubbed out until the glaze is on evenly. Other reasons for crawling are too thick of a glaze application, overfiring, firing too rapidly, drying the glaze too rapidly, too much feldspar, the percentage of opacifiers in the glaze is too high, too smooth of a body surface (burnished ware), lack of adhesiveness in the glaze (add gum solution), too much adhesiveness in the glaze (decrease gum solution), and double glazing when the first glaze application is already dry.

## Devitrification

Devitrification is a crystal-like surface, similar to a crystal glaze, which results from the kiln cooling too slowly, too much free silica in the glaze or too high of a clay content in the glaze.

## Pinholing (Pitting)

These defects may be caused by air pockets in the surface of the ware. Cast pieces will often be effected by pinholing. Pinholing usually results from improper firing. A glaze must have an adequate soak time to allow the glaze to flow. If the glaze freezes as it just begins to melt, pinholes will result. Over-reduction,

underfiring and overfiring will also result in pinholing. This defect can also be caused by dirty or dusty ware. Make sure to wipe all bisqued pieces with a damp sponge before glazing.

Some ways to reduce pinholing are having a longer firing cycle, applying the glaze thinly, adding more flux to the glaze, cutting down on zinc and rutile, firing to a higher temperature, cutting down the reduction cycle, soaking the kiln longer, cooling the kiln more slowly, and reducing ball milling time.

## Running

The term "running" refers to when a glaze drips or runs off of a piece. Glazes will run due to overfiring or an insufficient amount of kaolin (alumina) in the glaze. Running may also be caused by too much flux in a glaze or too much flux on a piece due to using many different glazes on the piece. To correct a runny glaze try adding 2 -5% kaolin.

## Scumming

Scumming is a salt-like deposit on the surface of a glaze and on some clays. It is caused by soluble salts or sulphur fumes in a glaze or clay. To correct this problem, add 1 - 2% barium carbonate or 1/2 oz. of vinegar per 1 gallon of glaze.

## Shivering

Shivering, the reverse of crazing, is when the glaze forms a "shell" around the piece or when the glaze peels off the piece. The solution is to increase the material in the glaze which has a high coefficient of expansion.

## Underfiring & Overfiring

Underfired glazes are rough and scratchy. Overfired pieces are shiny. Overfired pieces usually can not be refired, but the effect is sometimes interesting if the glaze does not run. Underfired pieces are usually unsatisfactory and must be refired.

## Using Dry Blend Glazes

Using dry blend glazes is a less expensive, although more time consuming, procedure than using prepared bottled glazes. However, as a learning aid for students, it is an excellent way to show the basics of how glazes are made.

Dry blend glazes are basic, non-colored, premeasured glazes which must be screened and mixed with water. A brushing medium must be added if the glazes are to be used with a brush. Mixing containers, screens and additional ingredients are necessary. A gram scale is recommended.

As a very basic rule, one pint of glaze is made from 1 pound of dry blend glaze, although this will vary considerably with the type of glaze. To prepare a pint, start with approximately 8 ounces of hot water. Weigh out 1 pound of dry blend glaze—one pound equals 454 grams. Screen (30-80 mesh) dry ingredients into hot water, stirring periodically. Add 1 percent magnesium sulphate (epsom salts) to keep glaze from settling out—especially if using a frit based glaze. Screen (30-80 mesh) wet glazes several times. Add 1/2 to 2 percent binder such as CMC Gum, dextrine, starch, or powdered sugar to increase viscosity, decrease dry glaze rubbing off with excess handling, or to make glaze suitable for brushing on as opposed to pouring or dipping. **NOTE:** When adding CMC Gum, mix it with water first—just a few grains—wait until it dissolves—usually a day or two and then add to glaze or purchase premixed gum solution and add directly to glaze. Let glaze "sour" at least one day and preferably two, before using. Determine viscosity of mix which works best for you with a hydrometer of some sort, and keep glaze at that thickness for consistent results. Check viscosity before using glaze each time and adjust with water either adding or removing. Screen or at least stir before using glaze for