

WILLOUGHBY'S CHINA PAINTS

One Dram Vial

001 Poppy Red	4.50	045 Pink Brown	7.95	089 Blue violet	9.95
002 Calif. Poppy	4.50	046 Banding Blue	4.50	090 Water Blue	4.95
003 Orange	4.50	047 Sevres Blue	4.75	091 Water Green	4.25
004 Deep Yellow	5.25	048 Delphinium Blue	4.65	092 Chartreuse	4.50
005 Golden Yellow	4.95	049 Baby Blue	4.95	093 Persian Red	6.25
006 Mixing Yellow	4.25	050 Grey Blue	4.50	094 Royal Blue	4.95
007 Albert Yellow	4.95	051 Forget-Me-Not	4.95	095 Golden Green	5.35
008 Lemon Yellow	4.95	052 Black Grape	15.95	096 Old Gold	4.50
009 Trenton Ivory	4.50	053 Darkest Grape	15.95	097 Cool Shadow	4.65
010 Violet of Iron	4.25	054 Royal Violet	15.95	098 Pecan	4.25
011 Maroon	4.95	055 Flower Grey	4.65	099 Paste for Raised Gold	5.95
012 Lt. Pompadour	5.50	056 Flesh Grey	4.95	300 Tan	4.25
013 Pompadour Brown	6.75	057 Pearl Grey	5.25	301 Light Ivory	4.95
014 Pompadour	6.50	058 Peacock Blue	5.35	302 Pale Pink	5.50
015 Flesh Pink	5.25	059 Deep Blue Green	5.35	303 Mulberry	12.95
016 Yellow Red	4.75	060 Blue Green	4.50	304 Rich Yellow Brown	5.25
017 Santa Red	4.95	061 Turquoise	4.50	305 Golden Walnut	4.50
018 Fire Engine Red	4.95	062 Navy	4.65	306 Antique Green	4.25
019 Black Brown	6.25	063 Copenhagen Blue	4.95	307 Amber	4.75
020 Rich Brown	7.50	064 Brown Green	4.95	308 Salmon	5.95
021 Finishing Brn.	5.35	065 Bronze Green	4.50	309 Red Grape	6.75
022 Hair Brown	5.50	066 Olive Green	4.25	310 Dark Shadow	5.25
023 Coffee	4.75	067 Dark Green	4.50	311 Ivory Flesh	4.75
024 Auburn	5.95	068 Grey Green	4.75	312 Blonde Flesh	4.75
025 Chestnut	5.25	069 Leaf Green	4.50	313 Brunette Flesh #2	5.35
026 Golden Amber	6.25	070 Sevres Green	4.50	314 Dark Cheek	6.25
027 Yellow Brown	4.50	071 Sap Green	5.25	315 Tender shadow	4.65
028 Rose	11.95	072 Yellow Green	5.50	316 Rembrandt Brown	5.50
029 Dresden Rose	8.95	073 Ashes of Rose	8.95	317 Indian Flesh	4.50
030 Pink for Roses	11.95	074 Black	4.25	318 Warm Shadow	4.75
031 Soft Pink	11.95	075 Outlining Black	4.25	319 Transparency	4.50
032 Apple Blossom	8.95	076 Russian Green	4.95	320 Reflected Light	5.25
033 Pale Peach	8.95	077 Peacock Green	4.75	321 Dark Brown	4.50
034 Tea Rose	8.95	078 Black Green	3.95	322 Warm Grey	4.50
035 Brunette Flesh	8.95	079 Jade	4.25	323 Light Grey	4.65
036 Dresden Flesh	6.95	080 Shadow Green	4.75	324 Rust	6.50
037 Pansy Purple	11.95	081 Seaweed Green	4.50	325 Mahogany	5.25
038 Pink Purple	10.95	082 White	4.65	326 Light Red	5.95
039 Light Purple	8.95	083 Moss Green	4.50	327 Dull Red	7.25
040 Orchid	6.95	084 Blood Red	5.50	328 Ruby Red	5.95
041 Deep Ruby	15.95	085 Harvest Gold	4.50	329 Flux	4.95
042 Bright Ruby	16.95	086 Golden Oak	5.25	330 Yellow for Reds	DISC
043 Crimson Purple	15.95	087 Petal Pink	5.25		
044 American Beauty	18.95	088 Wine Red	5.95		

WILLOUGHBY'S

Matt Paints - One Dram Vial

M002 Calif. Poppy	4.50	M046 Banding Blue	4.75	M087 Petal Pink	4.50	
M006 Mixing Yellow	4.50	M047 Sevres Blue	4.50	M088 Wine Red	5.25	
M008 Lemon Yellow	3.95	M048 Delphinium Blue	4.95	M090 Water Blue	6.95	
M012 Lt. Pompadour	5.50	M049 Baby Blue	4.95	M091 Water Green	4.25	
M013 Pomp. Brown	4.65	M051 Forget-Me-Not	4.95	M092 Chartreuse	6.25	
M014 Pompadour	5.75	M054 Royal Violet	14.95	M093 Persian Red	5.50	
M015 Flesh Pink	5.25	M055 Flower Grey	4.50	M094 Royal Blue	5.95	
M016 Yellow Red	4.25	M059 Deep Blue Green	4.25	M097 White Vellum	3.95	
M019 Black Brown	6.25	M061 Turquoise	4.95	M098 Ivory Vellum	3.95	
M020 Rich Brown	6.25	M064 Brown Green	4.50	M300 Tan	4.95	
M021 Finishing Brown.	4.75	M071 Sap Green	4.25	M304 Rich Yellow Brown	5.25	
M022 Hair Brown	4.25	M072 Yellow Green	4.25	M310 Dark Shadow	5.50	
M024 Auburn	3.95	M075 Outlining Black	4.75	M311 Ivory Flesh	4.65	
M026 Golden Amber	4.25	M076 Russian Green	4.95	M312 Blonde Flesh	4.35	
M027 Yellow Brown	4.95	M078 Black Green	4.95	M313 Brunette Flesh#2	5.50	
M028 Rose	9.95	M080 Shadow Green	4.50	M314 Dark Cheek	5.50	
M030 Pink for Roses	9.95	M082 White	3.95	M315 Tender Shadow	4.75	
M034 Tea Rose	8.95	M083 Moss Green	4.50	M317 Indian Flesh	4.25	
M035 Brunette Flesh	5.25	M084 Blood Red	5.95	M321 Dark Brown	5.25	
M036 Dresden Flesh	6.95	M085 Harvest Gold	4.50	M323 Light Grey	4.65	
M044 American Beauty	18.95	M086 Golden Oak	4.95	<u>Flux to add shine to your bisque</u>		
				329	Flux	3.95

MATT COLORS ARE USED ON GLAZED OR UNGLAZED (bisque) WARE. MATT COLORS ARE FIRED AT THE NORMAL CHINA FIRING TEMPERATURES AND ARE NOT GLOSSY.

WILLOUGHBY'S

Enamels One Dram Vial

E101 Old English Turquoise	5.75	E108 Ruby Maroon	8.95	E117 English Pink	6.50
E102 Royal Sapphire Blue	5.75	E109 Turquoise	5.25	E118 Mulberry	8.95
E103 Corn Flower Blue	5.75	E110 Gold Orange	4.95	E119 Pink	4.95
E104 Royal Violet	8.95	E111 Fruit Green	4.95	E120 Black	5.50
E105 French Mauve	8.95	E112 Austro Red	4.95	E121 Bright Red	5.50
E106 Marigold	4.95	E113 Brown	4.95	E122 Chartreuse	5.25
E107 Corn Yellow	4.95	E114 White	4.65	E123 Santa Red	4.95
		E115 Golden Brown	4.95	E124 Soft Rose	8.95
		E116 Hunter's Green	5.50	E125 Antique Rose	8.25

The above enamels are in dry powder form. Mix with Enamel Media to a thick paste, thin for use with Pure Gum Turpentine. Apply to glazed or bisque ware with turpentine as the medium. Dry at room temperature overnight and fire as other china ware. We recommend one firing at cone 019 for soft ware, cone 018 for hard body ware. The hotter the firing, the more relief materials tend to relax.

FIRING YOUR CHINA PAINTS

Clean your kiln prior to doing a china firing. This will help avoid contamination of your paint. Your firing is in the cone 022 through 016 range. This will vary with the color of the paint and the brand you are using. Your kiln should be well ventilated (peephole plugs out) with the lid cracked open during the first hour. **DO NOT RUSH A CHINA FIRING.** Fire slowly for best results. Slow firing and good ventilation allow the gases from the burnt off media to escape, reduce the formation of specks and helps ensure good adhesion of the paint to the bisque.

NOTES:

- China paints show their true color only after firing.
- The amount of medium used can influence the color's intensity. More medium can produce a weaker color, less can help strengthen the color.
- Color can be enhanced with an additional coat(s) after firing.
- The color can also be influenced by the color of the porcelain chosen.

**CHINA PAINTS CONTAIN SOME LEAD INGREDIENTS AND DO NOT MEET FDA STANDARDS FOR FOOD SAFE USE.
KEEP OUT OF THE REACH OF CHILDREN**

WILLOUGHBY'S MEDIA AND OILS

<u>One Ounce</u>		<u>One Ounce</u>		<u>1/2 Ounce</u>	
Medium #1	5.95	Mixing Medium	6.50	Enamel Medium	4.95
Medium #2	8.25	Grounding Oil	7.25	Medium for Raised Paste	5.50
Medium #3	9.50	Balsam of Copaiba		Pen Oil	6.75
Medium #4	8.25	Thin	9.95	French Fat Oil	4.95
Medium #5	8.75	Thick	9.50	Oil of Lavender (pure)	6.50
Medium #6	7.15	Lavender Oil (Imitation)	7.95	Oil of Clove (pure)	5.95

CHINA PAINTING SUPPLIES

CHINA SILK 9"X9" square	1.50	GRINDING GLASS	6" x 6" square	9.00
GRAPHITE PAPER 20X26	4.95	GRAPHITE PENCIL	Fires off China	1.95
CROW QUILL PEN HOLDER -aluminum	6.45	WILLOUGHBY WIPE OUT STICK		1.55
CROW QUILL PEN POINTS #102 fine point	2.95	KEMPER WIPE OUT STICK		5.89

WILLOUGHBY'S GLASS PAINTS

		One Dram Vial			
200 White Enamel	n/a	214 Hunter's Green	7.95	227 Deep Blue Green	8.95
201 Albert Yellow	4.95	215 Water Green	6.95	228 Pompadour	5.95
202 Yellow Brown	4.95	216 Water Blue	5.95	229 Black Green	6.95
203 Yellow Red	4.95	217 Pansy Purple	29.00	230 Rose	6.95
204 Yellow Green	4.95	218 Royal Violet	n/a	231 Petal Pink	6.95
205 Chartreuse	5.95	219 Blue Violet	19.95	232 Hair Brown	4.95
206 Antique Green	5.95	220 Light Ruby	10.95	233 Fire Eng. Red	6.95
207 Turquoise	6.95	221 Pink for Roses	29.00	234 Wine Red	6.95
208 Banding Blue	6.95	223 Olive Green	4.95	235 Harvest Gold	4.95
209 Blood Red	6.95	224 Brown Green	5.95	236 Mixing Yellow	5.95
210 Brown	6.95	225 Leaf Green	5.95	237 Flower Grey	4.95
211 Black	5.95	226 Holland Blue	8.95	238 Golden Yellow	5.95
212 White	5.95				
213 Orange	6.95				

GLASS FIRING INSTRUCTIONS - Place glass on floor of kiln, place 022 cone in kiln. Prop kiln lid open with a two to four inch post, place peephole plugs in. Turn on switches and allow kiln to heat until all smoking has stopped, then close kiln lid. Check the cone about every five minutes until the cone has matured, then turn off the kiln and open the kiln lid enough to insert the two to four inch post to hold the kiln lid open. Allow to cool. Many kilns now have lid props built in and are easier and safer to use.

Do not stack or post the glass. Allow three inches of clearance around each piece of glass and from the sides of the kiln. This prevents a build-up of the temperature.

Always vent the kiln at the end of the firing. Always fire opal glass with cone 022.

Automatic kilns will not vent the kiln for you; be sure you are there at the proper time to vent the kiln.

Enamel on glass is fired as above, after the enamel has been thoroughly dried at room temperature.

CADMIUM-SELENIUM FAMILY: Nos. 201, 203, 213, 233 and 238

GOLD BASE FAMILY: Nos. 217, 218, 219, 220, 221 and 222

Glass colors in each family are freely intermixable.