



## ZAR® OIL BASE STAIN TINTING FORMULATION

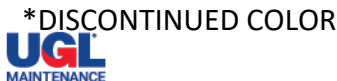
### MATCHING: ZAR® OIL BASE STAIN COLORS SYSTEM: VALSPAR USING 48 INCREMENTS PER FLUID OUNCE

**EXPLANATION OF NOTATION:** The amount of colorant to be added is listed in two columns under the container size. The first column under OZ. lists the number(s) of full fluid ounces of colorant to add. If a zero appears in this column, no full fluid ounces are added, only fractions of a fluid ounce. The second column under the heading 48, lists the number(s) of fractions, 48ths, of a fluid ounce to add. If a zero appears in this column, no fractions are added, only full fluid ounces. If you have any questions on these formulas please contact UGL at 1-800-845-5227 before starting to tint.

**IMPORTANT:** Due to the differences between the pigment used in the ready-mixed colors and those used in tinting systems, minor variations are possible. For this reason, store-tinted colors should NOT be used to complete a job started with ready-mixed colors or vice versa. UGL can only control colors of their own manufacture. Therefore, we CANNOT guarantee that the formulas as indicated will be exact matches. Colors as listed represent our matches to color chips. It is advisable to PRE-DETERMINE the formulas, as being used, will provide the proper color match. UGL cannot assume any responsibility for any changes in shade that may occur.

#### COLORANTS

AXN– Exterior Yellow  
B - Lamp Black  
C - Yellow Oxide  
D – Thalo Green  
E – Thalo Blue  
F – Red Iron Oxide  
KX – Titanium Dioxide  
L – Raw Umber  
S – Exterior Red  
M – Magenta  
T-Medium Yellow





**VALSPAR SYSTEM TO MATCH ZAR® OIL BASE STAIN**

<b>109 COLONIAL PINE*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	0	16	B	1	16			
C	1	0	C	4	0			
F	0	8	F	0	32			

<b>110 SALEM MAPLE*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
C	1	0	C	4	0			
F	0	9	F	0	36			
L	1	15	L	5	12			

<b>111 WALNUT *</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
C	1	8	C	4	32			
F	0	5.5	F	0	22			
L	1	28	L	6	16			

<b>113 FRUITWOOD*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
C	1	24	C	6	0			
F	0	4	F	0	16			
L	1	10	L	4	40			
KX	0	6	KX		24			



**VALSPAR SYSTEM TO MATCH ZAR® OIL BASE STAIN**

<b>114 PROVINCIAL*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
C	1	0	C	4	0			
F	0	8.5	F	0	34			
L	1	12	L	5	0			

<b>115 AGED BOURBON (MODERN WALNUT)</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	0	46	B	3	40			
C	1	29	C	6	20			
F	0	21	F	1	36			

<b>116 CHERRY*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
C	1	0	C	4	0			
F	0	22	F	1	40			
L	1	26	L	6	8			

<b>117 HONEY MAPLE*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
C	1	8	C	4	32			
F	0	7	F	0	28			
L	0	24	L	2	0			
KX	0	36	KX	3	0			



**VALSPAR SYSTEM TO MATCH ZAR® OIL BASE STAIN**

<b>118 DARK MAHOGANY*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	1	14	B	5	8			
C	0	18	C	1	24			
F	1	12	F	5	0			

<b>119 MOCHA</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	2	6	B	8	24			
C	0	22	C	1	40			
F	0	20	F	1	32			

<b>120 PREMIUM TEAK (TEAK NATURAL)</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	0	24	B	2				
C	1	30	C	6	24			
F	0	20	F	1	32			

<b>121 BABY GRAND (BLACK ONYX)</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	2	0	B	8	0			
C	0	12	C	1	0			
KX	0	6	KX	0	24			



**VALSPAR SYSTEM TO MATCH ZAR® OIL BASE STAIN**

<b>122 MEDITERRANEAN*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	2	0	B	8	0			
C	0	26	C	2	8			
F	0	16	F	1	16			

<b>123 DARK CHOCOLATE TRUFFLE (MOORISH TEAK)</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	1	46	B	7	40			
C	0	6	C	0	24			
F	0	40	F	3	16			

<b>124 ROSEWOOD*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	1	40	B	7	16			
F	1	4	F	4	16			

<b>125 BLACK WALNUT*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	2	0	B	8	0			
C	0	30	C	2	24			
F	0	16	F	1	16			



**VALSPAR SYSTEM TO MATCH ZAR® OIL BASE STAIN**

<b>126 CHESTNUT*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
C	1	6	C	4	24			
F	0	2.5	F	0	10			
L	0	32	L	2	32			

<b>127 GOLDEN SUNSET (GOLDEN OAK)</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
C	1	24	C	6	0			
F	0	3	F	0	12			
L	0	19	L	1	28			
KX	0	24	KX	2	0			

<b>128 MINK (EARLY AMERICAN)</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	0	30	B	2	24			
C	1	14	C	5	8			
F	0	30	F	2	24			

<b>129 VINTAGE MODERN (AMBER VARNISH)</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
C	1	6	C	4	24			
F	0	5	F	0	20			
L	0	32	L	2	32			



130 DRIFTWOOD*						145 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR	OZS.	48'S	COLOR	OZS.	48'S	COLOR	OZS.	48'S
B	0	5.5	B	0	22			
C	0	6	C	0	24			
I	0	2	I	0	8			
KX	1	32	KX	6	32			

135 BLACK CAVIAR (CHARCOAL)						145 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR	OZS.	48'S	COLOR	OZS.	48'S	COLOR	OZS.	48'S
B	2	24	B	10	0			
F	0	12	F	1	0			

136 ENGLISH WALNUT*						145 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR	OZS.	48'S	COLOR	OZS.	48'S	COLOR	OZS.	48'S
B	1	10	B	4	40			
C	1	0	C	4	0			
F	0	12	F	1	0			

137 WHITE OAK*						145 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR	OZS.	48'S	COLOR	OZS.	48'S	COLOR	OZS.	48'S
C	1	30	C	6	24			
F	0	3	F	0	12			
L	0	29	L	2	20			
KX	0	26	KX	2	8			



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<b>138 SPANISH OAK*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	0	12	B	0	0			
C	1	0	C	4	0			
F	0	8	F	0	32			
KX	0	16	KX	1	16			

<b>139 BEACH HOUSE (COASTAL BOARDS)</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
KX	2	40	KX	11	16			

<b>140 MERLOT*</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	0	30	B	2	24			
F	1	0	F	4	0			
M	0	26	M	2	8			
KX	0	34	KX	2	40			

<b>170 SILK GRAY</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	0	17	B	1	20			
C	0	4	C	0	16			
F	0	3/4	F	0	3			
KX	1	37	KX	7	4			





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<b>171 MALIBU GRAY (SLATE GRAY)</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	0	28	B	2	16			
C	0	3 1/2	C	0	14			
F	0	2 1/2	F	0	10			
KX	1	10	KX	4	40			

<b>503 OILED LEATHER</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	1	5	B	4	20			
C	0	23	C	1	44			
KX	0	4	KX	0	16			
F	0	2	F	0	8			

<b>509 BLUE MOON</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
E	0	25	E	2	4			
L	1	25	L	6	4			
KX	0	22	KX	1	40			

<b>508 CHAMPAGNE</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
C	0	0.75	C	0	3			
KX	0	5	KX	0	20			



**VALSPAR SYSTEM TO MATCH ZAR® OIL BASE STAIN**

<b>504 GRAY CASHMERE</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
B	0	8	B	0	32			
KX	0	18	KX	1	24			
AXN	0	1	AXN	0	4			

<b>517 MOROCCAN RED</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
F	1	24	F	6	0			
B	0	30	B	2	24			
AXN	0	2	AXN	0	8			

<b>518 EXOTIC REDWOOD</b>						<b>145 TINT BASE</b>		
<b>QUART</b>			<b>GALLON</b>			<b>5 GALLON</b>		
<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>	<b>COLOR</b>	<b>OZS.</b>	<b>48'S</b>
F	2	21	F	9	36			
B	1	12	B	5	00			