

May 2004

**ZAR OIL BASED WOOD STAIN TINTING FORMULATION**

**MATCHING: MINWAX OIL BASED WOOD STAIN COLORS**

**SYSTEM: NUANCE 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**

AX – Exterior Yellow  
B - Lamp Black  
C - Yellow Oxide  
D – Thalo Green  
E – Thalo Blue  
F – Red Iron Oxide  
I – Brown Iron Oxide  
KX – Titanium Dioxide  
L – Raw Umber  
R – Exterior red

						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
B	1	12	B	5	0			
C	1	14	C	5	8			
I	0	32	I	2	32			
REMOVE	1FL OZ	OF	TINT	BASE	BEFORE	TINTING		

						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
B	0	9	B	0	36			
C	0	16	C	1	16			
F	0	2	F	0	8			
KX	0	6	KX	0	24			
L	0	30	L	2	24			

						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
COLOR.	CAN'T	BE	MATCHED		NEEDS	MORE	THAN	12 FL OZ
OF	TINT	PER	GALLON					

						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
COLOR.	CAN'T	BE	MATCHED	WITHIN	STDS.			

SPECIAL WALNUT			145 OR 169 TINT BASE					
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
B	1	18	B	5	24			
C	0	27	C	2	12			
I	0	34	I	2	40			

CHERRY			145 OR 169 TINT BASE					
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
B	0	20	B	1	32			
C	0	10	C	0	40			
F	0	10	F	0	40			
L	0	18	L	1	24			

PURITAN PINE			145 OR 169 TINT BASE					
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
B	0	4	B	0	16			
C	0	30	C	2	24			
F	0	1	F	0	4			
L	1	7	L	4	28			

DRIFTWOOD			145 OR 169 TINT BASE					
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
B	0	14	B	1	8			
C	0	10	C	0	40			
I	0	3	I	0	12			

GOLDEN OAK			145 OR 169 TINT BASE					
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
C	0	15	C	1	12			
L	0	30	L	2	24			

EARLY AMERICAN			145 OR 169 TINT BASE					
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
B	0	10	B	0	40			
C	0	15	C	1	12			
F	0	3	F	0	12			
I	0	25	I	2	4			
L	1	0	L	4	0			

RED OAK			145 OR 169 TINT BASE					
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
B	1	24	B	6	0			
E	0	6	E	0	24			
F	1	24	F	6	0			

GOLDEN PECAN			145 OR 169 TINT BASE					
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
C	0	2+1/96	C	0	10			
F	0	1+1/96	F	0	6			
I	0	2	I	0	8			
L	0	11	L	0	44			

PICKLED OAK								
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
C	0	1	C	0	4			

COLONIAL MAPLE								
145 OR 169 TINT BASE								
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
C	0	15	C	1	12			
F	0	10	F	0	40			
L	0	10	L	0	40			

IPSWICH PINE								
145 OR 169 TINT BASE								
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
C	0	16	C	1	16			
F	0	4	F	0	16			
L	0	30	L	2	24			

NATURAL								
145 OR 169 TINT BASE								
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
ZAR	TINT	BASE	WITHOUT	ANY	COLOR			

JACOBELAN								
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
COLOR.	CAN'T	BE	MATCHED		NEEDS	MORE	THAN	12 FL OZ
	OF	TINT	PER	GALLON				

EBONY								
QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S
ZAR WOOD STAIN CHARCOAL COLOR CAN BE USED								

QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S

QUART			GALLON			5 GALLON		
COLOR.	OZS.	48'S	COLOR.	OZS.	48'S	COLOR.	OZS.	48'S