

JANUARY 2010

**ZAR OIL BASE WOOD STAIN TINTING FORMULATION**

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

**SYSTEM: BLEND-A-COLOR USING 32 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 32, lists the number(s) of fractions, 32nds, 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**

Black  
Blue  
Green (New)  
Raw Umber (Raw Umb)  
Red (New)  
Red Oxide (R. Oxide)  
Magenta  
White  
Yellow  
Yellow Oxide (Y. Oxide)

209 NATURAL						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Red Oxide	0	0.5	Red Oxide	0	2			
Umber	0	10	Umber	1	8			
White	0	20	White	2	16			
Yellow Oxide	1	18	Yellow Oxide	6	8			

210B GOLDEN OAK						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Red Oxide	0	0.5	Red Oxide	0	2			
Umber	0	10	Umber	1	8			
White	0	10	White	1	8			
Yellow Oxide	1	24	Yellow Oxide	7	0			

211 PROVINCIAL						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Black	0	7.5	Black	0	30			
Red Oxide	0	2	Red Oxide	0	8			
Yellow Oxide	2	0	Yellow Oxide	8	0			

215 RED OAK						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Black	0	8	Black	1	0			
Red Oxide	0	12	Red Oxide	1	16			
Yellow Oxide	1	6	Yellow Oxide	4	24			

218 PURITAN PINE						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Red Oxide	0	1.5	Red Oxide	0	6			
Umber	0	12	Umber	1	16			
Yellow Oxide	1	2	Yellow Oxide	4	8			

221 IPSWICH PINE						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Red Oxide	0	2	Red Oxide	0	8			
Umber	0	7.5	Umber	0	30			
White	0	18	White	2	8			
Yellow Oxide	1	28	Yellow Oxide	7	16			

222 SEDONA RED						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Black	0	3	Black	0	12			
Red Oxide	0	14	Red Oxide	1	24			
Yellow Oxide	0	23	Yellow Oxide	2	28			

223 COLONIAL MAPLE						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Red Oxide	0	7	Red Oxide	0	28			
Umber	0	10	Umber	1	8			
White	0	20	White	2	16			
Yellow Oxide	1	18	Yellow Oxide	6	8			

224 SPECIAL WALNUT						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Black	0	16	Black	2	0			
Red Oxide	0	4.5	Red Oxide	0	18			
Yellow Oxide	1	12	Yellow Oxide	5	16			

225 RED MAHOGANY						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Black	0	12	Black	1	16			
Red Oxide	0	14	Red Oxide	1	24			
Yellow Oxide	1	4	Yellow Oxide	4	16			

230 EARLY AMERICAN						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Black	0	5.5	Black	0	22			
Red Oxide	0	2	Red Oxide	0	8			
Yellow Oxide	1	0	Yellow Oxide	4	0			

231 GUNSTOCK						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Black	0	5.5	Black	0	22			
Red Oxide	0	13	Red Oxide	1	20			
White	0	3	White	0	12			
Yellow Oxide	1	12	Yellow Oxide	5	16			

232 RED CHESTNUT						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Black	0	8.5	Black	1	2			
Red Oxide	0	13	Red Oxide	1	20			
Yellow Oxide	1	0	Yellow Oxide	4	0			

233 ENGLISH CHESTNUT						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Black	0	8	Black	1	0			
Red Oxide	0	9	Red Oxide	1	4			
Yellow Oxide	1	12	Yellow Oxide	5	16			

235 CHERRY						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Red Oxide	0	2.5	Red Oxide	0	10			
Umber	0	8	Umber	1	0			
White	0	18	White	2	8			
Yellow Oxide	1	2	Yellow Oxide	4	8			

241 FRUITWOOD						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Red Oxide	0	0.5	Red Oxide	0	2			
Umber	0	14	Umber	1	24			
Yellow Oxide	1	14	Yellow Oxide	5	24			

245 GOLDEN PECAN						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Red Oxide	0	1	Red Oxide	0	4			
Umber	0	5	Umber	0	20			
White	0	20	White	2	16			
Yellow Oxide	1	24	Yellow Oxide	7	0			

260 PICKLED OAK						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Red Oxide	0	0.5	Red Oxide	0	2			
Umber	0	1	Umber	0	4			
White	2	16	White	10	0			
Yellow Oxide	0	12	Yellow Oxide	1	16			

2126 DRIFTWOOD						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Umber	0	30	Umber	3	24			
White	0	12	White	1	16			
Yellow Oxide	0	28	Yellow Oxide	3	16			

2716 DARK WALNUT						145 OR 169 TINT BASE		
QUART			GALLON			5 GALLON		
COLOR.	OZS.	32'S	COLOR.	OZS.	32'S	COLOR.	OZS.	32'S
Black	0	22	Black	2	24			
Red Oxide	0	3	Red Oxide	0	12			
Yellow Oxide	1	0	Yellow Oxide	4	0			

