## Curaumilla Glaze List - for dry glaze once-fire wood and soda

At Curaumilla Arts Center in Chile, we used a groggy stoneware body w/iron and tested a Spanish white body. Works were dry-glazed and once-fired in wood and soda. Glazes below were at times adjusted from their cone 10 bisque-ware glazing format to change the amount of clay in the raw glaze. If you want to read about once-fire, see Frank Hamer's A Potter's Dictionary of Materials and Techniques and Robert Fournier's Illustrated Dictionary of Practical Pottery.

Charcoal Black cone 9-11 Works for dry glazing, once-fire	
Kentucky OM #4	12.4
Custer feldspar	65.2
Dolomite	9
Silica	9
Whiting	4.5
total	100.1
+bentonite	3.6
+ RIO	4.4
+ 6600 Mason black	4.4

<b>Dougs Shino Glaze</b> cone 7-11 Reduction, wood, soda. Used at Curaumilla for dry-glaze once-fire	
Kona F-4 feldspar	14.6
Spodumene	12.5
Kentucky OM #4	16.6
Nepheline syenite	50
Soda ash	3.3
EPK	2.9
Total	99.9

Arrayan –used as milky white w/zircop clear w/o zircopax 9-11.Used for dry-g fire wood and soda	
Feldspar	40
Silica	30
Whiting	20
Kaolin	10
total	100
Zircopax	10
Bentonite	2

<b>Rob's Green</b> c 9-10. Transparent green in oxidation, red to black in reduction.	
Cornwall Stone	71.43
Whiting	17.14
Gerstley borate	4.76
Strontium carbonate	6.67
Total	100
+Copper carbonate	9.52
+Bentonite	2

Randy' s Yellow Glaze c9-11 Satin ma to brown thin	tte breaking
Dolomite	11.6
Strontium carbonate	20.7
Nepheline syenite	58
Kaolin	9.7
Total	100
Zircopax Plus	8.9
Red iron oxide	2.7
Bentonite	4.3

Shino White-Grey cone 9-11 Used at Curaumilla for dry-glaze once-fire. Will carbon-trap in early reduction.	
Nepheline syenite	44
Spodumene – theoretical	28
Kentucky OM #4	10.6
Ash wood	14
Silica	2.8
Total	99.4

OHATA cone 9-11 recalculated for dry-glaze	
Saturated iron tomato red in reduction w slow	
cooling. Brown to amber w some iron crystals in	
wood and soda. Reformulated for dry-glaze once-	
fire at Curaumilla	
Potash feldspar	39.4
Silica	27.9
Ball clay	10.6
Dolomite	9.3
Whiting	2.7
Bone ash	9.7
Alumina hydrate	0.4
Total	100
+ RIO (red iron ox.	12
+ bentonite	2

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--- too intense to cover whole pot.

<b>Reeves Green</b> for accentsdot and slip trailing. Softer and mintier in wood and soda than reduction.	
Potash feldspar	63.1
Whiting	15
Silica	11.6
Ball clay	10
Total	99.7
+Chrome oxide	3.0
+Bentonite	2.00

<b>Emily Purple w Wood Ash</b> for dry glaze once-fire C9-11. This went blue where it got much atmosphere. See below.	
Gerstley borate	11.3
Talc theoretical	15
Ball clay	9.4
Silica	39
Ash wood	17.3
Alumina hydrate	7.9
Total	99.9
+Cobalt oxide	2
+Bentonite	2
+Tin oxide	2

The purple is a magnesium-cobalt color interaction. In the wood and soda, the vapors in the kiln overwhelmed that flux-colorant interaction and tended to turn it all a harsh, alkaline blue. I recommend reduction firing to see the purple color. Recipe below

<b>Emily Purple c9-10 reduction.</b> Buttery purple in reduction. Where it's next to a glaze that dilutes	
it, e.g. clear or celadon, it will give blue borders.	
Potash feldspar	41
Colemanite	12
Dolomite	7
Talc theoretical	15
Kentucky OM #4	5
Silica	20
Total	100
Cobalt oxide	2
Bentonite	2
Tin oxide	2

Tostado c9-11 Good in wood-fire. Used for dry-	
glaze once-fire	
Feldspar	67.2
Dolomite	10.9
Whiting	9.8
Kaolin	6.1
Gerstley borate	5.9
Total	99.9
Zircopax	10
Bentonite	1
Rutile	2.2

### **Inclusion stains**

We used inclusion (encapsulated) stains to make the colors for decorating on top of glaze. These also worked under some glazes.

Bordeaux red, Brilliant Yellow, Orange: mixed by volume 1 Gerstley Borate to 1 stain.

#### Other decorating colors used:

Mixed 1 colorant to 2 Gerstley borate: chrome (green), rutile (golden). The chrome turned black-brown in wood and soda. Not as green as in reduction.

UF SLIP BASE c 8-11	
EPK	36
Kentucky OM #4	27
Custer feldspar	15
Whiting	7
Flint	15
Total	100
for white +7% opax	

for blue: + 3% cobalt carb for green: +4% chrome

for blue/green: 3% cobalt carb + 0.5 chrome oxide

<b>UF SHOP BLACK</b> – this slip turned blue under glaze and in soda. Recommend using cobalt-free black stain or oxide mix to keep it black rather than blue	
Alberta slip	94.7
Nepheline syenite	5.3
Total	100
Cobalt oxide	5.00

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Amarillo (yellow) slip for wood and soda. C 9-11 Ochre yellow with waxy surface in wood and soda		
Nepheline syenite	31.58	
Ball clay	63.16	
Silica	5.6	
Total	100.34	
Tin oxide	5.26	
Titanium dioxide	10.53	

Randy's Yellow slip for wood and soda. C 9-11		
Nepheline syenite	60.95	
EPK	39.05	
Total	100	
Zircopax	5	
Titanium dioxide	5	

Shino Slip C9-11		
Like Shino glaze, but allows combing because it's thick		
Kona F-4	8.6	
Spodumene	12.2	
Soda ash	3.2	
Neph sy	36	
Ball clay	12	
EPK	28	
+Bentonite	2	

Bauer Flashing Slip c 9-11 wood or soda.	
Flashes orange. Usually applies thinly.	
EPK	46.9
Kentucky OM #4	46.9
Borax	6.1
Total	99.9
Zircopax	10