

Black Glazes – Cone 10

BLK#1 TEMMOKU GLAZE

Whiting	18.10	NOTE:
Feldspar	43.40	
Kaolin	10.30	
Silica Flint	28.20	
Add:	100.00	
Black Iron Oxide	6.0%	
Red Iron Oxide	6.0%	

BLK#2 TEMMOKU BLACK

Feldspar	67.00	NOTE: Cone 9-10
Dolomite	5.00	
Whiting	6.00	
Kaolin	5.00	
Silica Flint	17.00	
Add:	100.00	
*Bentonite	2.0%	
Red Iron Oxide	5.0%	
Cobalt Oxide	3.0%	

BLK#3 TEMMOKU R-19

Feldspar	68.40	NOTE: Cone 9
Kaolin	4.70	
Silica Flint	8.10	
Whiting	18.80	
Add:	100.00	
Red Iron Oxide	10.0%	

BLK#4 LONG BEACH STATE TEMMOKU

Feldspar	70.70	NOTE:
Kaolin	4.00	
Silica Flint	.20	
Colemanite	11.40	
Whiting	5.70	
Red Iron Oxide	8.00	
	100.00	

BLK#5 TEMMOKU GLAZE

Barium Carbonate	2.46	NOTE: Cone 9-10
Whiting	16.04	Add: Chrome Oxide 1.00%
Feldspar	49.40	Cobalt Oxide 5.0%
Ball Clay	9.87	Manganese Dioxide 2.5%
Silica Flint	22.23	Red Iron Oxide 5.0%
	100.00	

BLK#6 HEAVY IRON GLAZE I

Whiting	18.30	NOTE:
Feldspar	43.40	Add: Red Iron Oxide 10.0%
Kaolin	10.30	
Silica Flint	28.00	
	100.00	

BLK#7 DARK IRON SATURATED GLAZE

Volcanic Ash	100.00	NOTE: Cone 9-11
Add:		
Red Iron Oxide	6.5%	
*Bentonite	2.0%	

BLK#8 MATT BLACK GLAZE

Volcanic Ash	100.00	NOTE: Cone 9-11
Add:		
Cobalt Oxide	1.0%	
Manganese Dioxide	3.3%	
Red Iron Oxide	3.3%	
*Bentonite	2.0%	

BLK#9 SEMI-MATT BLACK (Toshiko base) B-1

Feldspar	37.40	NOTE: Cone 9-10
Kaolin	18.70	This glaze cannot be used
Cornwall Stone	18.70	in combination with other
Whiting	18.70	glazes, will produce severe
Zinc Oxide	6.50	running.
Add:	100.00	
*Bentonite	2.0%	
Red Iron Oxide	20.0%	
Cobalt Oxide	5.9%	
Magnesium Dioxide	1.0%	

BLK#10 HAYSTACK - (Mini-Black)

Feldspar	40.00	NOTE: Cone 9-10
Whiting	30.00	
Silica Flint	30.00	
Add:	100.00	
Barnard Clay	20.0%	
Red Iron Oxide	10.0%	
Cobalt Oxide	5.0%	

BLK#11 HEAVY IRON II

Feldspar	42.00	NOTE:
Silica Flint	27.00	
Kaolin	10.00	
Whiting	20.00	
Add:	100.00	
Red Iron Oxide	9.0%	

BLK#12 BROWN BLACK KAKI

Nepheline Syenite	28.60	NOTE:
Colemanite	14.80	
Zinc Oxide	6.00	
Barium Carbonate	7.20	
Kaolin	19.00	
Silica Flint	24.40	
Add:	100.00	
Red Iron Oxide	4.0%	

BLK#13 SATURATED IRON

Feldspar	36.40	NOTE: Cone 9-10
Silica Flint	27.20	Add: Red Iron Oxide 10.0%
Whiting	18.20	
Kaolin	18.20	
	100.00	

BLK#14 DAVISON BLACK

Feldspar	41.00	NOTE:
Whiting	7.00	Add: Red Iron Oxide 10.0%
Ball Clay	7.00	
Dolomite	12.00	
Silica Flint	33.00	
	100.00	

BLK#15 SEMI-GLOSS BLACK

Albany Slip	100.00	NOTE:
Add:		
Cobalt Oxide	3.0%	

BLK#16 BROWN BLACK GLAZE

Nepheline Syenite	28.60	NOTE:
Colemanite	15.00	
Zircopax	6.00	
Barium Carbonate	7.00	
Kaolin	19.00	
Silica Flint	24.40	
Add:	100.00	
Red Iron Oxide	4.5%	

GENERAL NOTES:

* See mixing instructions on page 1

BLK#17 BLACK MATT

Whiting	16.60	NOTE:
Feldspar	33.30	Add: Red Iron Oxide 7.0%
Ball Clay	50.10	Cobalt Oxide 5.0%
Add:	100.00	
Red Iron Oxide	7.0%	
Cobalt Oxide	5.0%	

BLK#18 TAMBA BLACK GLAZE

Michigan Slip Clay	60.00	NOTE:
Common Slip	40.00	
Add:	100.00	
Red Iron Oxide	5.0%	

BLK#19 HERB'S BLACK

Feldspar	45.00	NOTE: Or try:
Kaolin	25.00	Rutile 2.0%
Whiting	15.00	Copper Oxide 1.0%
Dolomite	10.00	Cobalt Oxide .5%
Silica Flint	5.00	
Add:	100.00	
Cobalt Oxide	1.0%	
Manganese Dioxide	5.0%	

BLK#20 TOSHI BLACK

Feldspar	63.00	NOTE:
Dolomite	7.50	
Whiting	5.50	
Kaolin	7.50	
Silica Flint	16.50	
Add:	100.00	
*Bentonite	2.0%	
Red Iron Oxide	10.0%	
Cobalt Oxide	2.0%	

BLK#21 ALEXANDER OIL SPOT GLAZE

B-2

Wood Ash	13.50	NOTE: Cone 9-10
Albany Slip	67.50	A blackish oil spot glaze,
Kaolin	19.00	this recipe yields brown
Add:	100.00	over white slip.
Red Iron Oxide	13.5%	

BLK#22 KAKI GLAZE

Hardwood Ash	36.20	NOTE: Metallic, this
Cornwall Stone	51.80	this recipe yields black
Silica Flint	12.00	to rusty brown.
Add:	100.00	
Red Iron Oxide	20.0%	

BLK#23 HEAVY IRON III

Feldspar	39.60	NOTE: Variation:
Silica Flint	25.60	double Kaolin.
Kaolin	9.40	
Whiting	16.40	
Red Iron Oxide	9.00	
	100.00	

BLK#24 HEAVY IRON GLAZE IV

Feldspar	47.00	NOTE:
Talc	3.00	
Kaolin	22.00	
Bone Ash	1.00	
Whiting	21.00	
Red Iron Oxide	7.00	
	100.00	

Matte Black	
Cornwall Stone	42%
Dolomite	15
Whiting	10
EPK (Edgar Plastic Kaolin)	23
Silica	10
TOTAL	100%
add Yellow Ochre	6%
add Cobalt Carbonate	2%
add Chrome Oxide	1%

TOSHIKO BLACK

Custer Feldspar	67.0
Dolomite	5.0
Whiting	6.0
EPK	5.0
Silica	17.0
Red Iron Oxide	10.0
Cobalt Carbonate	2.0
Manganese Dioxide	1.0
Bentonite	2.0

W#56 G-MATT 3

Feldspar	52.00
Whiting	9.30
Zinc Oxide	8.00
Barium Carbonate	20.70
Kentucky Ball Clay	10.00
	100.00
Add: Rutile	3.0%
Red Iron Oxide	5.1%

RP BLACK MATT

Custer Feldspar	50
EPK	26
Dolomite	24
Manganese Dioxide	2
Cobalt Carbonate	4
Chrome Oxide	1
Red Iron Oxide	4

MOTTLED BLUE BROWN

Custer Feldspar	42
Whiting	18
EPK	13
Silica	17
Red Iron Oxide	4
Rutile	4

Ingredients	% Amounts
Custer Feldspar	60.68
Kaolin	5.33
Dolomite	9.94
Ball Clay	9.10
Barium Carbonate	5.33
Whiting	4.81
Silica	4.81
Total:	100.00
Also add: (colorants, etc.)	
Red Iron Oxide	2.09
Rutile	4.50

OM-4 Ball clay	12.31
Calcined kaolin	12.10
Kona F-4 Feldspar	33.62
Bone Ash	0.53
Talc	5.57
Wollastonite	6.96
Silica	28.91
Total:	100.00
Also add: (colorants, etc.)	
Titanium Dioxide	0.53
Manganese Dioxide	0.21
Red Iron Oxide, Spanish	6.85

PORTER TENMOKU

Soda Feldspar(nc-4)	501
Talc	51
Wollanstonite	115
Zinc Oxide	20
Bentonite	26
Ball Clay	86
Silica	180
Titanium Dioxide	21
Red Iron Oxide	55

W#58 HASSING'S SLIP GLAZE

Albany Slip	13.90
Silica Flint	18.80
Feldspar	42.10
Whiting	14.00
Zinc Oxide	2.00
Manganese Carbonate	3.00
Kaolin	6.20

NOTE: Add:
Red Iron Oxide 6%

Black Glaze (Cone 10)

Whiting	18.18%
Soda Feldspar	72.73
Kaolin	9.09
	100.00%
Add: Chrome Oxide	1.81%
Cobalt Carbonate	1.81%
Iron Oxide	6.06%

Peach Black Temmoku Glaze (Cone 10, reduction)

Whiting	17.32%
G-200 Feldspar	49.51
Edgar Plastic Kaolin (EPK)	9.90
Flint	23.27
	100.00%
Add: Tin Oxide	1.00%
Red Iron Oxide	9.60%
Macaloid	1.00%

Temmoku Glaze (Cone 10, reduction)

Whiting	17%
Custer Feldspar	45
Kaolin	11
Flint	27
	100%
Add: Bentonite	2%
Red Iron Oxide	10%

Temmoku

Whiting	17
Custer Feldspar	33
EPK	10
Flint	40
	100%
Red Iron Oxide	11%

Temmoku

Cone 9-11 Reduction
used by Boomer Moore

Whiting	16.5%
Custer Feldspar	45.0
Edgar Plastic Kaolin	11.0
Silica	27.5
TOTAL:	100.0%
add Red Iron Oxide	9.9%

Heavy Iron Matt Glaze (Cone 10, reduction)

Whiting	16.56%
Kingman Feldspar	39.35
Edgar Plastic Kaolin	18.68
Flint	25.41
	100.00%
Add: Red Iron Oxide	8.84%
Bentonite	1.00%

Please turn to page 88

Oestreich Temmoku Glaze (Cone 10, reduction)

Whiting	17.58%
Custer Feldspar	46.15
Edgar Plastic Kaolin (EPK)	13.19
Flint	23.08
	100.00%
Add: Zinc Oxide	2.20%
Red Iron Oxide	8.79%
Bentonite	2.20%

Tesha Glaze

(Cone 8-10, reduction)

Whiting	18.52%
Potash Feldspar	25.72
Ball Clay	27.88
Flint	27.88
	100.00%
Add: Red Iron Oxide	11.32%

TOM COLEMAN'S BLACK

Cone 10

Luscious black in reduction and nice in oxidation. Breaks royal-to-midnight blue in soda. Sometimes gets gold flashing.

Custer Feldspar	32.90%
Silica	32.69
Whiting	15.38
OM-4 Ball Clay	9.62
EPK	9.62
TOTAL	100.00

add Red Iron Oxide 8.0%
add Cobalt Carbonate 3.8%

IRON SATURAT

Material	%
CUSTER FELDSPAR	40
FLINT	30
WHITING	20
EPK	10
Total	100
+RED IRON OXIDE	10

PLUM SAT. IRON

Kingman	78
Whiting	6
S10	14
Red Iron Oxide	10
Bentonite	22

Temmoku 1 cone 10

Custer Feldspar	45
Whiting	13
Silica	25
EPK	11
Red Iron Oxide	8

Temmoku Glaze (Cone 9-11)

Whiting	16.5%
Custer Feldspar	45.0
Edgar Plastic Kaolin	11.0
Flint	27.5
	100.0%
Add: Red Iron Oxide	9.9%

TENMOKU OESTREICH

CUSTAR	57
WHITING	13.7
BARIUM CARB	2.6
FLINT	23.8
ZINC OXIDE	2.6
RED IRON OXIDE	8.46
BENTONITE	

K.C.N.S.T. Plum Brown Black

Raw Materials

Feldspar	62
Whiting	7.6
Kaolin	5
Flint	25
Red Iron Oxide 10%	2955

BRUCE'S PLUM (TEN)	
KING	43
EPK	10
WHIT	18
SILICA	28
RED FE	6
BLACK FE	6

2. VCIR.B

NEPHELINE SYENITE - 24 R SATURATED IRON REDS, PLUM
KONA F/4 FELDSPAR - 24 DS AND BLACK/BROWN COLORS.
ZINC OXIDE - 20
WHITING - 10
FLINT - 20
EPK - 2

+ 10% IRON OX. 100
BENTONITE 1%

3. VCIR.C

CUSTER SPAR — 40
CORNWALL STONE — 20
WHITING — 10
FLINT — 20
GERSTLEY BORATE — 5
EPK — 5

+ 10% IRON OXIDE 100

4. VCIR.D

K-200 SPAR — 50
WHITING — 12
ZINC OXIDE — 2
EPK — 10
FLINT — 26

+ 10% IRON OXIDE 100

5. K-200 SPAR - 40
FLINT - 30
WHITING - 20
EPK - 10

+ 10% IRON OX. 100

VCIR.E

6. VCIR.F

CUSTER FELDSPAR - 50
GERSTLEY BORATE - 15
WHITING - 10
FLINT - 20
EPK - 5

+ 10% IRON OX. 100

7. VCIR.G

K-200 FELDSPAR - 80
WHITING - 10
EPK - 10

+ 10% IRON OXIDE

Bright Brown Black c/10 Reduction

Raw Materials	Batch Recipe
Feldspar	1647 gr.
Whiting	620
Zinc Oxide	81
Kaolin	480
Flint	828
Red Iron Oxide	356
	<u>4012 grs.</u>

Black Glaze

(Cone 11, reduction)

Whiting	16.53%
Zinc Oxide	2.20
Potash Feldspar	48.50
Edgar Plastic Kaolin	10.22
Flint	22.55
	<u>100.00%</u>

Add: Bentonite 1.00%
Red Iron Oxide 9.70%

Voulkos Black

Custer Feldspar	42.1%
Whiting	15.8
Zinc Oxide	2.1
EPK	9.8
Flint	21.1
Red Iron Oxide	<u>9.1</u>
	<u>100.0</u>

Paul Davis Teadust Black Glaze

(Cone 8-10, reduction)

Talc	7.41%
Whiting	15.74
Custer Feldspar	39.81
Kentucky Ball Clay (OM 4)	12.04
Silica (Flint)	25.00
	<u>100.00%</u>
Add: Red Iron Oxide	9.30%

Temmoku Glaze

(Cone 9)

Whiting	17.27%
Zinc Oxide	2.20
Custer Feldspar	46.32
Edgar Plastic Kaolin	11.00
Flint	23.21
	<u>100.00%</u>
Add: Red Iron Oxide	10.00%

Nigel Wood Black Glaze Variation

(Cone 9)

Wollastonite	21.14%
Potash Feldspar	21.72
Edgar Plastic Kaolin	17.14
Kentucky Ball Clay (OM 4)	8.00
Flint	32.00
	<u>100.00%</u>
Add: Cobalt Carbonate	1.72%
Manganese Dioxide	3.72%
Red Iron Oxide	10.29%

Black 373

Custer Feldspar	1260	8.4
Flint	633	4.2
Whiting	474	3.2
Kaolin	297	2
Zinc Oxide	63	0.4
Red Iron Oxide	273	1.8
		<u>20lbs.</u>

Heavy Iron Temmoku

Feldspar	39.5	1263	7.93
Silica	25.5	816	5.11
Kaolin	9.4	300	1.87
Whiting	16.6	531	3.32
Red Iron Oxide	9	285	1.78
		<u>3195</u>	<u>20lbs.</u>

~~TEMOKU~~
 PINN'S DARK GR. A
 SPAR 40
 SILICO 40
 WHIT 17.5 ²¹
 OM 4 18
 FB 12
 CORCORB 1
 TEMOKU III A10-12
 ALBANY 25
 FE 5
~~CLARKS~~
~~BORON~~ SILICA 10
 SPAR 10
 TEMOKU II A10R
 KING SPAR 40
 OM 4 5
 WHIT 15
 SIL 20
 EPK 10
~~FE~~ 9.5

Temmoku Glaze (Cone 8-10) Reduction	Whiting Kona F-4 Feldspar Kentucky Ball Clay (OM +) Flint Add: Red Iron Oxide	17.0 % 28.0 % 28.0 % 27.0 % 100 % 5-10
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Temmoku 2 cone 10	
Whiting.....	10%
Kona F4 Feldspar.....	60%
Kaolin.....	5%
Flint.....	25%
add:	
Red Iron Oxide.....	10%

Clarks Black cone 9/10		
Kona F-4.....	44	
Whiting.....	12	
EPK.....	7	
Flint.....	37	
RIO.....	8	
Bentonite.....	3%	
		53.76 19.68 15.36 7.2 7.68

CLARKS BLACK cone 9-10	
Kona F-4 Feldspar.....	44
Whiting.....	12
E.P.K.	7
Silica.....	37
Red Iron Oxide.....	8
Bentonite.....	3%

Temmoku
 Custer
 Silica
 Whiting
 Ball Clay
 Red Iron

Tessha Glaze (Cone 10, reduction)	
Whiting.....	17.98%
Kona F-4 Feldspar.....	23.60
Bentonite.....	6.74
SGP 1 Ball Clay.....	22.47
Flint.....	29.21
	100.00%
Add: Red Iron Oxide.....	13.48%
This saturated iron glaze is used only to emphasize small areas.	

X RT 13 Rust and Black
 Raw Materials
 74 Kingman Feldspar
 4 Kaolin
 13 Flint
 14.40 Gesteley Borate (Coleman)
 575 Whiting
 8 Red Iron Oxide

3-mix
 36 SPAR
 24 BALL
 21 WHITING
 6 SILICO
 6 IRON
 3 RUTILE

Black/Brown Gloss Glaze (Cone 10, reduction)	
Whiting.....	15.56%
Custer Feldspar.....	54.44
Kaolin.....	6.67
Flint.....	23.33
	100.00%
Add: Zinc Oxide.....	2.22%
Red Iron Oxide.....	11.11%

Angel Eyes Cone 10 Reduction	
EPK.....	10.0%
Whiting.....	20.0
Silica.....	30.0
Potash Feldspar.....	40.0
TOTAL:	100.0%
add Red Iron Oxide.....	3.33
add Rutile.....	3.33

Don Reitz's 3-4-6-7	
Kaolin (EPK or Georgia).....	30
Whiting.....	40
Flint.....	60
Potash Feldspar (K-200).....	70
	200
Iron.....	9%
	100 %

Dark Metal Glaze (Cone 8-10) Reduction	Spodumene	10.0 %
	Barnard Clay	80.0 %
	Kentucky Ball Clay (OM 4)	10.0 %
		100 %

Barnard Clay	88.00
Nepheline Syenite	12.00
Total:	100.00 %
Also add: (colorants, etc.)	
Cobalt Oxide	1.50

Obsidian Glaze 2	
Whiting	6.2 %
Frit 3124 (Ferro)	18.7
Sheffield Slip	63.6
Cobalt Oxide	8.8
Bentonite	2.7
	100.0 %

Redart Glaze (Cone 8-10) Reduction	Whiting	06.0 %
	Cedar Heights Redart Clay	94.0 %
		100 %
	Add: Red Iron Oxide	05.0 %
	Different variation add:	
	Rutile	5 % to 10 %

Black Glaze cone 10

Custer Feldspar	4000gr
Whiting	1300gr
Red Horse Clay	800gr
Barium Carbonate	200gr
Silica	1800gr
Manganese Dioxide	200gr
Cobalt Carbonate	400gr
Chrome Oxide	100gr
Red Iron Oxide	400gr

TAZMANIA BLACK (cone 4-10)

Gerstley borate	21 %
Wollastonite	8
Nepheline syenite	30
Kaolin	10
Silica (flint)	31
Black iron oxide	10
add	
Chrome	2
Cobalt oxide or carbonate	3
Manganese dioxide	6

TEMOKU	Cone 10
Feldspar	1666
Kaolin	93
Colemanite	269
Whiting	135
Red Iron	189

CORNELL SAT. IRON

Custer	43
Silica	29
Whiting	14
Yellow Ochre*	14

TEMOKU II A10-12	
ALBANY	80
YELLOW OCHRE	10
SPD	10

TEMOKU	
WHIT 2 1/2	
ALBANY 80	
BARNARD 10	
ALB 8	
CLARK'S BLACK	
CWT 40.7	
WHIT 11.5	
EPK 6.5	
SILICA 34.5	
RIO 7.5	

Manganese Luster*

(In parts by weight)

Redart Clay	60
OM #4 Ball Clay	5
Silica	5
Manganese Dioxide	45
Cobalt Carbonate	10
Copper Carbonate	10

Artificial Albany Slip

Redart	48.0 %
Kaolin	12.0
Custer Feldspar	11.0
Whiting	10.0
Silica	8.0
Talc	6.0
Nepheline Syenite	3.0
Red Iron Oxide	2.0

Iron-Saturated Red Glaze

(Cone 10, reduction)

Bone Ash	9.91
Talc	6.31
Whiting	7.20
Potash Feldspar	48.65
Edgar Plastic Kaolin	6.31
Flint	21.62
	100.00 %
Add: Red Iron Oxide	10.81 %
Bentonite	1.80 %

Temple's Persimmon Glaze

(Cone 11)

Bone Ash	10.01 %
Talc	5.70
Whiting	7.15
Custer Feldspar	50.02
Edgar Plastic Kaolin	5.70
Flint (325 mesh)	21.42
	100.00 %
Add: Red Iron Oxide	12.85 %

CUSHING SATURATED IRON :
GLOSSY BLACK WHERE THICK -
BREAKING RED PLUM WHERE THIN

CUSTER FELDSPAR - 20
KONA F/4 spar - 14
WHITING - 17
BARIUM CARB. - 3
EPK - 15
FLINT - 31

+ IRON OXIDE (RED) - 10% (V)

Scotts Iron Red
Feldspar 43.3
Flint 19.3
EPK 5.6
Tlc 5.6
Whiting 6.4
Bone Ash 8.8
Fe₂O₃ 9.6
Bentonite 1.3

(8) VCIR-H

OXFORD FELDSPAR - 60
WHITING - 10
WOLLASTONITE - 5
GERSTLEY BORATE - 5
FLINT - 15
EPK - 5
+ 10% IRON OXIDE
BENTONITE - 1%

Secrest Temmoku cone 9/10 red.

Custer.....53
EPK.....6
Flint.....24
Barium carb.....2.5
Zinc ox.....2.5
Add: RIO.....10%

(9) VCIR-I

CORNWALL STONE - 42
WHITING - 16
GERSTLEY BORATE - 2
ZINC OXIDE - 2
FLINT - 26
EPK - 12
+ 10% IRON OXIDE

SOME SATURATED IRONS WORK AT 8% IRON OXIDE. SOME AT 10%.
ALL THESE GLAZES GIVE CELADON EFFECTS AT 1/2 TO 1% IRON OXIDE INSTEAD OF 8 TO 10%. AT THE LOWER PERCENTAGE YOU GET PALL GREEN.

9/9-10 REDUCTION GLAZES: For ADD, 8% To 10% IRON OXIDE. RE

(1) VCIR-A: GLOSSY BLACK/BROWN

CUSTER SPAR - 35
GERSTLEY BORATE - 20
WHITING - 15
EPK - 10
FLINT - 25
+ 10% IRON OXIDE

Temmoku (9)
B Carb 2.5
Whiting 13.3
Zinc 6.1
EPK 23.1
Flint 10.0
Kona 7.1
Barium 2.5
Bent 2.0

Tenmoku

Albany 60
Corn S. 25
Red Iron 5
Whit. 10

TENMOKU A10

CORNISH STONE 66
WHITING 11.5
CHINA CLAY (EPK) 7.5
FUNT 15
RED IRON OXIDE 7.5

Val's Black Satin Matte

Albany 30.8
Corn, S. 30.
Barium 30
EPK 10

Cobalt 2
Iron 4
Chrome 1
Ox

TEMOKU
Albany Slip 20
Apple Ash 15
Custer Feldspar 60
Red Art Clay 20
Gold Art Clay 4
Red Iron Oxide 3
123

ST. John Black cone 10

Albany Slip.....682gr
Nepheline Syenite.....318gr
Cobalt Oxide.....4.5gr

Albany Slip Glaze (Cone 10, reduction)

Barium Carbonate 5.2%
Whiting 10.5
Cornwall Stone 21.1
Albany Slip Clay 63.2
100.0%

Add: Red Iron Oxide 3.1%

44 CERAMICS MONTHLY

RHODES BLACK

Seattle or Albany Slip.....85
Neph. Sy.....10
Cobalt Carb.....5

Tenmoku

cone 9 - 10 R

Kingman Feldspar 780.
Albany Slip 979.
Powdered Borax 99.
Ky. Ball Clay 80.
Red Iron Oxide 80.
Bentonite 60.
2078.

CUSHING "SATIN GOLL BLACK"

cone

Albany Slip.....65
Nepheline Syenite.....15
Barium Carbonate.....10
Talc.....10
Chrome Oxide.....10
Red Iron Oxide.....10
Manganese Dioxide.....10

Black cone 9/11

Albany Slip.....7000
Neph. Sy.....3000
Black Stain.....1500
Cobalt ox.....50
Blk Iron ox.....100

St. John's Black

Albany Slip 65
Neph. Syenite 10
Barium Carb. 10
Talc 15
Chrome 1
Mang. Diox 2
Cobalt 2

Black Metal Glaze (Cone 11)

Custer Feldspar 16.76%
Albany/Alberta Slip Clay 83.24
100.00%
Add: Cobalt Carbonate 1.73%
Manganese Dioxide 12.72%
Red Iron Oxide 1.16%

① OMB - Matt/Black

Albany Slip - 65
Neph. Syenite - 10 + Plus
Barium Carbonate - 10
Talc - 15

Chrome Oxide - 1%
Cobalt Carb. - 2%
Mang. Diopside - 1%

Oil-Spot Glaze #28 (Cone 10-11)

Dolomite	4.69 %
Whiting	4.69
Kona F-4 Feldspar	61.03
Kaolin	5.42
SILICA	24.17
COBALT CARB	5.00
P10	8.00

Montmollin Oil Spot Cone 10/11

68.40 F-4 (Soda feldspar)
17.80 Silica
4.90 EPK Kaolin
8.90 Talc

7.11 Red Iron Oxide
2.00 Cobalt Carbonate

Oil-Spot Glaze #24 (Cone 10-11)

Dolomite	3.69 %
Whiting	3.69
Kona F-4 Feldspar	48.04
Kaolin	9.58
Silica (Flint)	35.00
	100.00 %
Add: Cobalt Carbonate	5.00 %
Red Iron Oxide	8.00 %

Traditional Oil Spot Cone 10/11

80.18 Custer Feldspar
5.66 Silica
3.77 Whiting
4.71 Talc
5.66 Bone Ash

8.50 Red Iron Oxide

Oil-Spot Glaze #29 (Cone 10-11)

Dolomite	3.93 %
Whiting	3.93
Kona F-4 Feldspar	51.10
Kaolin	4.79
Silica (Flint)	36.25
	100.00 %
Add: Cobalt Carbonate	5.00 %
Red Iron Oxide	8.00 %

Candace Black Glaze (Cone 10-11)

Dolomite	5.0 %
Whiting	5.0
Kona F-4 Feldspar	65.0
Kaolin	5.0
Silica (Flint)	20.0
	100.0 %
Add: Cobalt Carbonate	5.0 %
Red Iron Oxide	8.0 %

John's Oil-Spot Glaze (Cone 10-11)

Dolomite	4.41 %
Whiting	4.41
Kona F-4 Feldspar	57.26
Kaolin	9.69
Silica (Flint)	24.23
	100.00 %
Add: Cobalt Carbonate	5.00 %
Red Iron Oxide	8.00 %

John's Oil Spot #3 Cone 10/11 (Works nicely in electric kilns) (images 3 & 4)

54.62 NC-4 (Soda Feldspar)
29.41 Silica
4.20 Whiting
7.56 EPK Kaolin
4.20 Dolomite

6.72 Red Iron Oxide
4.20 Cobalt Carbonate

Hamada Base Glaze (Cone 10)

Barium Carbonate	25.30
Whiting	10.78
Custer Feldspar	62.71
Edgar Plastic Kaolin	1.21
	100.00
Add: Zinc Oxide	9.68
Copper Carbonate	2.20
Red Iron Oxide	2.20
Rutile	2.20

Hamada Glaze (Cone 10)

Red Iron Oxide	8.87
Whiting	15.45
Zinc Oxide	2.02
Custer Feldspar	41.05
EPK (Edgar Plastic Kaolin)	11.97
Silica (Flint)	20.64
	100.00
Add: Bentonite	1.60

Peach Black Tanmoku

Custer 4848 (#)
EPK 1024
Silica 2252
Whiting 1657
Zinc Ox 219

Red iron ox 990

OIL SPOT

Kingman Feldspar	43.25	3780
Silica	27	2352
Whiting	12.5	1092
EPK	10.5	924
Iron Oxide	6.75	588
Bentonite	2%	8736

Hamada Strontium Glaze

(Cone 8-10, oxidation or reduction)	
Strontium Carbonate	22.58 %
Whiting	10.92
Soda Feldspar	65.25
Kentucky Ball Clay (OM 4)	1.25
	100.00 %
Add: Zinc Oxide	10.04 %
Copper Carbonate	3.26 %
Red Iron Oxide	3.14 %
Rutile	2.51 %

Val's Blue-Black Glaze

(Cone 8-10, oxidation or reduction)	
Whiting	34 %
Cornwall Stone	46
Edgar Plastic Kaolin	20
	100 %
Add: Tin Oxide	3 %
Copper Carbonate	3 %

BONNIE'S OIL SPOT
25.51 CUSTER
35.71 NC-4 (Soda Feldspar)
15.30 EPK Kaolin
5.10 Talc
5.10 Dolomite
5.10 Ferro Frit 3110
8.16 Silica

6.00 Red Iron Oxide

Recipe for oilspot glaze-
The approximate amount
according to clay content
the glaze.

	Recipe
potash feldspar	40
whiting	10
talc	10
silica	30
kaolin	10
iron oxide	10

V.C. Satin Black cone 10 ox/red.

Custer.....	20
Kona F-4.....	20
Whiting.....	2
Dolomite.....	15
Flint.....	20
OM 4.....	10
Talc.....	13
Add: Cobalt carb.....	3%
RIO.....	3%

FLAT/MATT/BLACK

Cornwall Stone	- 42
Dolomite	- 15
Whiting	- 10
EPK	- 23
Flint	- 10
	100
• Base glaze +	
	YELLOW OCHRE - 6 %
	COBALT CARB. - 2 %
	CHROME OX. - 1 %

Mirror Black cone 10

Custer.....	40
Dolomite.....	17
Talc.....	13
OM 4.....	10
Flint.....	20
Add: Chrome ox.....	1
RIO.....	3
Magnesium carb.....	2
Cobalt carb.....	3

Mirror Black cone 9-10 R-0

Kingman Feldspar	525.	Sara Center's Boston Brown Glaze
Whiting	167.	(Cone 10, reduction)
Albany Slip	167.	Dolomite..... 4.55%
Barium Carbonate	25.	Whiting..... 18.18
Flint	13.	Custer Feldspar..... 36.36
Manganese Dioxide	25.	Ball Clay..... 13.64
Cobalt Carbonate	32.	Flint..... 27.27
Chrome Oxide	12.	
Red Iron Oxide	50.	100.00%
Bentonite	32.	Add: Yellow Ocher..... 16.19%

Black Matt Glaze
(Cone 8-10)

Dolomite.....	23.7%
Nepheline Syenite.....	71.6
Kentucky Ball Clay (OM 4).....	4.7
	100.0%
Add: Bentonite.....	2.8%
Cobalt Oxide.....	1.0%
Iron Oxide.....	9.0%
Manganese Dioxide.....	3.4%

Iron Red Glaze
(Cone 10, reduction)

Bone Ash.....	450	grams
Dolomite.....	250	
Custer Feldspar.....	1600	
Ball Clay.....	150	
Flint.....	300	
	2750	grams
Add: Red Iron Oxide.....	200	grams

Rusty Orange Glaze
(Cone 10, reduction)

Bone Ash.....	200	grams
Dolomite.....	225	
Whiting.....	315	
Custer Feldspar.....	375	
Kaolin.....	350	
Flint.....	375	
	1840	grams
Add: Zinc.....	225	grams
Red Iron Oxide.....	20	grams
Rutile.....	70	grams
Bentonite.....	60	grams

RED #34 ROSALIA'S IRON RED

Feldspar	48.60
Silica Flint	21.60
Bone Ash	10.00
Whiting	7.20
Kaolin	6.30
Talc	6.30
Add:	
	100.00
Red Iron Oxide	11.0%
*Bentonite	1.5%

RED #35 PLUM RED GLAZE

Dolomite	4.40
Whiting	11.30
Zinc Oxide	1.00
Cornwall Stone	42.00
Kaolin	13.50
Silica Flint	27.80
Add:	
	100.00
Red Iron Oxide	10.0%

Spotted Black Glaze
(Cone 10, reduction)

Whiting.....	6.12%
Custer Feldspar.....	79.60
Silica (Flint).....	14.28
	100.00%
Add: Yellow Iron Oxide.....	20.41%

A satin matt dark maroon with silver spots.
Works best as thin to medium application on
porcelain. Can be sprayed or dipped.

Glaze VI (Cone 8-10)

Barium Carbonate	17.0%
Whiting	14.4
Custer Feldspar	38.5
Edgar Plastic Kaolin	10.4
Flint	19.7
	<u>100.0%</u>
Add: Red Iron Oxide	3.9%
Tin Oxide	3.9%

The following two glazes are variations of the previously listed recipes, and employ rutile as a modifier of iron to produce a range of desirable color effects in an oxidizing kiln atmosphere.

Glaze VII (Cone 8-10)

Magnesium Carbonate	5.4%
Whiting	14.4
Zinc Oxide	3.9
Nepheline Syenite	29.7
Edgar Plastic Kaolin	11.7
Flint	34.9
	<u>100.0%</u>
Add: Red Iron Oxide	8.0%
Rutile	10.7%

Glaze VIII (Cone 8-10)

Barium Carbonate	6.1%
Magnesium Carbonate	5.2
Whiting	14.0
Zinc Oxide	1.2
Custer Feldspar	41.5
Edgar Plastic Kaolin	10.9
Flint	21.1
	<u>100.0%</u>
Add: Red Iron Oxide	5.0%
Rutile	10.5%

Iron with copper in all the following glazes will produce colors which range from interesting shades of brown in oxidation to red-brown in reduction. For the first four, the molecular formula is similar, the only difference being the feldspathic source, which affects quantities of flint and kaolin in the recipe. In addition, the surfaces of these four are gloss with a tendency toward satin matt.

Glaze IX (Cone 8-10, oxidation or reduction)

Barium Carbonate	7.8%
Whiting	12.5
Zinc Oxide	5.7
Custer Feldspar	41.8
Edgar Plastic Kaolin	10.9
Flint	21.3
	<u>100.0%</u>
Add: Red Iron Oxide	4.0%
Copper Carbonate	5.3%

Glaze X (Cone 8-10, oxidation or reduction)

Barium Carbonate	7.8%
Whiting	12.5
Zinc Oxide	5.7
Kona F-4 Feldspar	32.0
Edgar Plastic Kaolin	12.0
Flint	30.0
	<u>100.0%</u>
Add: Red Iron Oxide	4.0%
Copper Carbonate	5.3%

Glaze XI (Cone 8-10, oxidation or reduction)

Barium Carbonate	7.8%
Whiting	12.5
Zinc Oxide	5.7
Nepheline Syenite	28.8
Edgar Plastic Kaolin	11.4
Flint	33.8
	<u>100.0%</u>
Add: Red Iron Oxide	4.1%
Copper Carbonate	5.3%

Glaze XII (Cone 8-10, oxidation or reduction)

Barium Carbonate	7.7%
Whiting	12.5
Zinc Oxide	5.7
Kingman Feldspar	36.4
Edgar Plastic Kaolin	11.2
Flint	26.5
	<u>100.0%</u>
Add: Red Iron Oxide	4.0%
Copper Carbonate	5.3%

The following two recipes are gloss glazes which have a slightly different empirical formula, use various feldspars and have stronger amounts of iron and copper—thus stronger colors.

Glaze XIII (Cone 8-10, oxidation or reduction)

Barium Carbonate	5.1%
Magnesium Carbonate	0.6
Whiting	13.0
Zinc Oxide	3.4
Kingman Feldspar	38.3
Edgar Plastic Kaolin	11.8
Flint	27.8
	<u>100.0%</u>
Add: Red Iron Oxide	9.7%
Copper Carbonate	9.4%

Glaze XIV (Cone 8-10, oxidation or reduction)

Barium Carbonate	5.2%
Whiting	13.3
Zinc Oxide	3.5
Kona F-4 Feldspar	33.8
Edgar Plastic Kaolin	12.6
Flint	31.6
	<u>100.0%</u>
Add: Red Iron Oxide	9.7%
Copper Carbonate	9.4%

About the author *Harold J. McWhinnie is an associate professor at the University of Maryland, in College Park.*

Temoku

Custer Feldspar	45
Whiting	13
Silica	25
EPK	11
	94
Red Iron Ox	8
Bentonite	2

Teri's Matt (Grey-Green-Black)

NC-4	35
Petalite	5
Dolomite	15
Barium Carb	25
EPK	40
Silica	10
	130
Copper Carb	6
Rutlie	4

Clarke's Black Temoku

G-200	44
Whiting	12
EPK	7
Silica	37
	100
Bentonite	2
Spanich Iron Ox.	8

Heavy Iron Gloss Glaze
(Cone 10, reduction)

Whiting	18.27 %
Kingman Feldspar	43.41
Edgar Plastic Kaolin	10.30
Flint	28.02
	100.00 %
Add: Red Iron Oxide	9.75 %
Bentonite	1.00 %

NEWTCAKE

Nepheline Syenite	505
Kaolin	96
Talc	35
Bone Ash	149
Silica	215
Rutile	50
Red Iron Oxide	40