

Lowfire Glazes

from the collection of

Andrea Gill

Great effort was taken to replicate the original glazes. Minor variation is expected as some ingredients were unspecific and other materials are no longer commercially available. For the sake of clarity, wherever an exact ingredient was unclear or no longer available, we have edited the recipes to list specific raw materials that are currently available in our region.

Compiled, tested, and documented by the
Grinding Room at Alfred University.

Brooke Cashion

Keith Simpson

And special thanks to Erin Smith

2021

Symon Clear

Material	Amount
Ferro Frit 3124	75.50
EP Kaolin	9.40
Neph Sye A270	9.40
Lithium Carbonate	3.80
Bentonite	2.00
Total	100.10

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.27 Na ₂ O	0.38 Al ₂ O ₃ 0.43 B ₂ O ₃	2.53 SiO ₂
0.03 K ₂ O		
0.15 Li ₂ O		
0.55 CaO		

R₂O : RO

0.45 : 0.55

SiO₂ : Al₂O₃

6.60

VC "Safe" Lead

Material	Amount
Ceraflux M200H Feldspar Thailand (Test)	35.00
Neph Sye A270	25.00
Gerstley Borate	20.00
Silica	15.00
EP Kaolin	10.00
Total	105.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.39 Na ₂ O	0.65 Al ₂ O ₃ 0.34 B ₂ O ₃	4.49 SiO ₂ 0.01 TiO ₂	0.01 Fe ₂ O ₃
0.14 K ₂ O			
0.36 CaO			
0.10 MgO			

R₂O : RO

0.53 : 0.47

SiO₂ : Al₂O₃

6.87



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VC Glossy Clear

Material	Amount
Ferro Frit 3195	73.50
Neph Sye A270	7.80
EP Kaolin	5.90
Gerstley Borate	4.90
Lithium Carbonate	3.90
Bentonite	2.00
Zinc Oxide	2.00
Total	100.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.25 Na ₂ O	0.38 Al ₂ O ₃ 0.76 B ₂ O ₃	2.20 SiO ₂
0.01 K ₂ O		
0.16 Li ₂ O		
0.07 ZnO		
0.49 CaO		
0.02 MgO		

R₂O : RO

0.42 : 0.58

SiO₂ : Al₂O₃

5.72

Pete Pinell's Best Clear Gloss

Material	Amount
Gerstley Borate	35.00
Frit 3289	25.00
EP Kaolin	20.00
Spodumene	20.00
Total	100.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.12 Na ₂ O	0.45 Al ₂ O ₃ 0.52 B ₂ O ₃	1.83 SiO ₂	0.01 Fe ₂ O ₃
0.01 K ₂ O			
0.17 Li ₂ O			
0.24 BaO			
0.38 CaO			
0.10 MgO			

R₂O : RO

0.29 : 0.71

SiO₂ : Al₂O₃

4.06



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VC Transparent Satin

Material	Amount
Ferro Frit 3124	52.50
Gerstley Borate	16.80
Minspar 200	14.90
Silica	10.90
Whiting	3.00
EP Kaolin	2.00
Total	100.10

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.24 Na ₂ O	0.26 Al ₂ O ₃ 0.51 B ₂ O ₃	{ 2.71 SiO ₂
0.03 K ₂ O		
0.68 CaO		
0.04 MgO		

R₂O : RO

0.28 : 0.72

SiO₂ : Al₂O₃

10.24

Satin AC Base

Material	Amount
Custer Feldspar	40.00
Gerstley Borate	22.00
Barium Carbonate	12.00
Whiting	12.00
Silica	10.00
Zinc Oxide	4.00
Bentonite	2.00
Total	102.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.08 Na ₂ O	0.18 Al ₂ O ₃ 0.21 B ₂ O ₃	{ 1.71 SiO ₂
0.11 K ₂ O		
0.15 BaO		
0.12 ZnO		
0.49 CaO		
0.05 MgO		

R₂O : RO

0.19 : 0.81

SiO₂ : Al₂O₃

9.57



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No Boron 04 Matt

Material	Amount
Silica	42.00
EP Kaolin	22.00
Lithium Carbonate	10.00
Whiting	10.00
Zinc Oxide	10.00
Barium Carbonate	6.00
Total	100.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.35 Li ₂ O	0.21 Al ₂ O ₃	{ 2.21 SiO ₂
0.08 BaO		
0.31 ZnO		
0.26 CaO		

R₂O : RO

0.35 : 0.65

SiO₂ : Al₂O₃

10.75

Matt Clear/ Cone 04

Material	Amount
Custer Feldspar	49.00
Barium Carbonate	13.00
Whiting	13.00
Laguna Borate	11.00
Silica	10.00
Zinc Oxide	4.00
Total	100.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.08 Na ₂ O	0.24 Al ₂ O ₃	{ 2.02 SiO ₂
0.14 K ₂ O		
0.18 BaO		
0.13 ZnO		
0.45 CaO		
0.02 MgO		

R₂O : RO

0.23 : 0.78

SiO₂ : Al₂O₃

8.40



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MJ's Majolica

Material	Amount
Ferro Frit 3124	64.70
Minspar 200	17.10
Zircopax	14.00
Tile #6 Kaolin	10.80
Neph Sye A270	6.30
Total	112.90

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.34 Na ₂ O	0.53 Al ₂ O ₃ 0.46 B ₂ O ₃	3.63 SiO ₂ 0.27 ZrO ₂ 0.01 TiO ₂
0.06 K ₂ O		
0.60 CaO		

R₂O : RO

0.39 : 0.61

SiO₂ : Al₂O₃

6.80

Arbuckle Majolica

Material	Amount
Ferro Frit 3124	66.00
Minspar 200	17.00
EP Kaolin	11.00
Zircopax	10.00
Neph Sye A270	6.00
Tin Oxide	5.00
Total	115.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.34 Na ₂ O	0.53 Al ₂ O ₃ 0.46 B ₂ O ₃	3.55 SiO ₂ 0.19 ZrO ₂ 0.12 SnO ₂
0.06 K ₂ O		
0.61 CaO		

R₂O : RO

0.39 : 0.61

SiO₂ : Al₂O₃

6.71



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Jaffe Majolica

Material	Amount
Ferro Frit 3124	100.00
Zircopax	24.00
Grolleg Kaolin	15.00
Strontium Carbonate	3.00
Total	142.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.26 Na ₂ O	0.39 Al ₂ O ₃ 0.51 B ₂ O ₃	3.05 SiO ₂ 0.34 ZrO ₂
0.03 K ₂ O		
0.05 SrO		
0.65 CaO		

R₂O : RO

0.29 : 0.71

SiO₂ : Al₂O₃

7.73

Thompson's Ivory White

Material	Amount
Gerstley Borate	55.00
EP Kaolin	25.00
Neph Sye A270	20.00
Silica	10.00
Zircopax	10.00
Lithium Carbonate	5.00
Tin Oxide	5.00
Total	130.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.18 Na ₂ O	0.37 Al ₂ O ₃ 0.54 B ₂ O ₃	1.91 SiO ₂ 0.14 ZrO ₂ 0.08 SnO ₂	0.01 Fe ₂ O ₃
0.03 K ₂ O			
0.17 Li ₂ O			
0.49 CaO			
0.12 MgO			

R₂O : RO

0.39 : 0.61

SiO₂ : Al₂O₃

5.21



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Low Fire Matt/ White

Material	Amount
Neph Sye A270	55.00
Borax	15.00
Dolomite	15.00
Talc	10.00
Minspar 200	5.00
Total	100.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.33 Na ₂ O	0.33 Al ₂ O ₃ 0.19 B ₂ O ₃	1.72 SiO ₂
0.07 K ₂ O		
0.21 CaO		
0.39 MgO		

R₂O : RO

0.40 : 0.60

SiO₂ : Al₂O₃

5.23

Kelly's B-4 Bumpy

Material	Amount
Ferro Frit 3110	85.00
EP Kaolin	15.00
Titanium Dioxide	12.00
Red Iron Oxide	4.00
Total	116.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.64 Na ₂ O	0.26 Al ₂ O ₃ 0.10 B ₂ O ₃	3.37 SiO ₂ 0.46 TiO ₂	0.07 Fe ₂ O ₃
0.07 K ₂ O			
0.29 CaO			

R₂O : RO

0.71 : 0.29

SiO₂ : Al₂O₃

12.83



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Sin Young Snowflake

Material	Amount
Neph Sye A270	70.00
Lithium Carbonate	29.00
EP Kaolin	11.00
Rutile	6.00
Magnesium carbonate	0.50
Total	116.50

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.21 Na ₂ O 0.06 K ₂ O 0.70 Li ₂ O 0.01 CaO 0.01 MgO	0.36 Al ₂ O ₃	1.40 SiO ₂ 0.12 TiO ₂	0.01 Fe ₂ O ₃

R₂O : RO

0.98 : 0.02

SiO₂ : Al₂O₃

3.88

Kelly's Lo-Fire Shino Flesh

Material	Amount
Neph Sye A270	70.00
Lithium Carbonate	29.00
EP Kaolin	11.00
Rutile	6.00
Manganese Carbonate	0.50
Total	116.50

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.21 Na ₂ O 0.07 K ₂ O 0.71 Li ₂ O 0.01 CaO 0.01 MnO	0.36 Al ₂ O ₃	1.40 SiO ₂ 0.12 TiO ₂	0.01 Fe ₂ O ₃

R₂O : RO

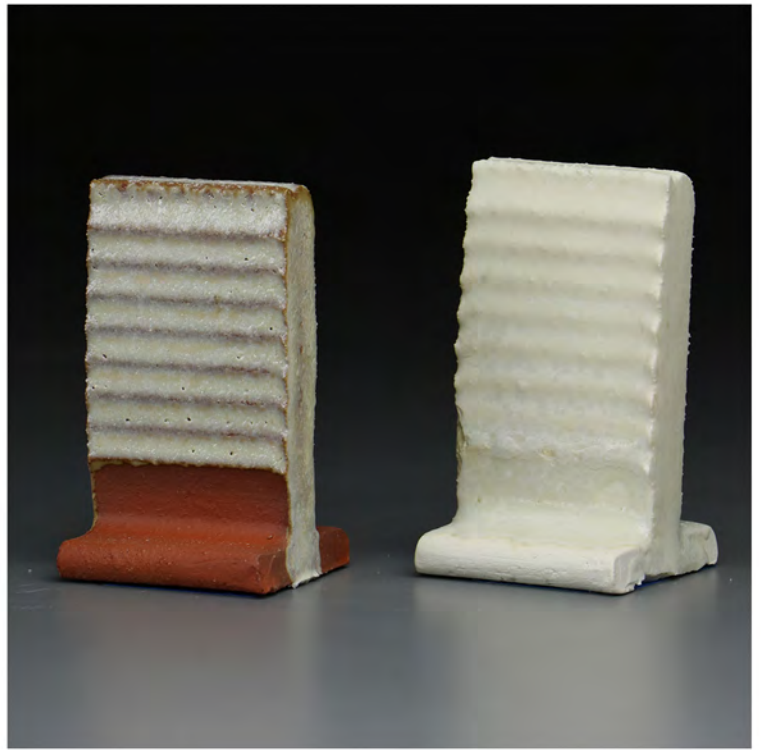
0.98 : 0.02

SiO₂ : Al₂O₃

3.88



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Burkett SDSU White Crawl Glaze

Material	Amount
Gerstley Borate	46.50
Magnesium carbonate	31.00
EP Kaolin	18.60
Zircopax	5.40
Borax	3.90
Total	105.40

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.07 Na ₂ O	0.12 Al ₂ O ₃ 0.33 B ₂ O ₃	0.47 SiO ₂ 0.05 ZrO ₂
0.26 CaO		
0.67 MgO		

R₂O : RO

0.07 : 0.93

SiO₂ : Al₂O₃

3.93

Nick's (Base) Yellow Orange

Material	Amount
Gerstley Borate	65.00
Titanium Dioxide	19.00
Borax	16.00
Crocus martis	3.00
Total	103.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.23 Na ₂ O	0.02 Al ₂ O ₃ 0.91 B ₂ O ₃	0.44 SiO ₂ 0.65 TiO ₂	0.04 FeO 0.03 Fe ₂ O ₃
0.01 K ₂ O			
0.61 CaO			
0.15 MgO			

R₂O : RO

0.24 : 0.76

SiO₂ : Al₂O₃

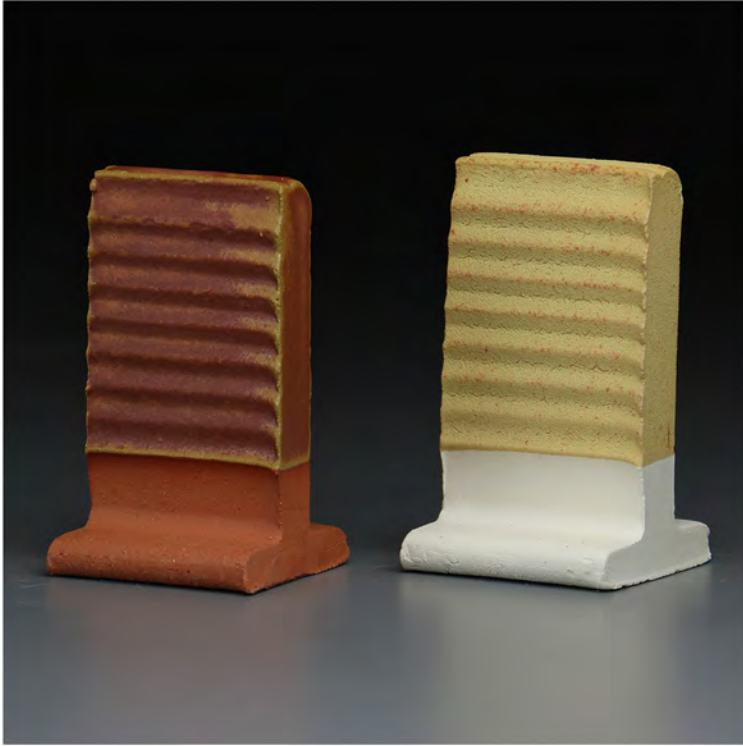
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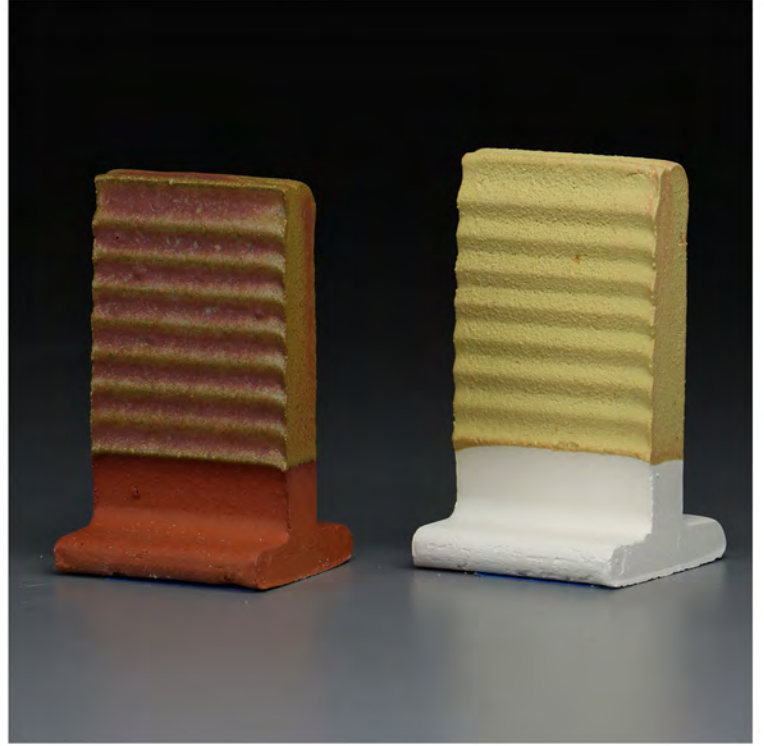
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Frosty Yellow

Material	Amount
Custer Feldspar	46.90
Barium Carbonate	13.50
Whiting	12.80
Gerstley Borate	11.40
Silica	10.50
Mason Stain #6410 Canary Yellow	8.00
Zinc Oxide	3.90
Bentonite	1.00
Total	108.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.08 Na ₂ O	} 0.22 Al ₂ O ₃ {	} 1.98 SiO ₂
0.13 K ₂ O		
0.18 BaO		
0.13 ZnO		
0.45 CaO		
0.03 MgO		

R₂O : RO

0.21 : 0.79

SiO₂ : Al₂O₃

9.19

Moonelis Chartreuse

Material	Amount
Neph Sye A270	55.00
Borax	15.00
Dolomite	15.00
Talc	10.00
Minspar 200	5.00
Bentonite	1.00
Chrome Oxide	1.00
Total	102.00

UMF Analysis

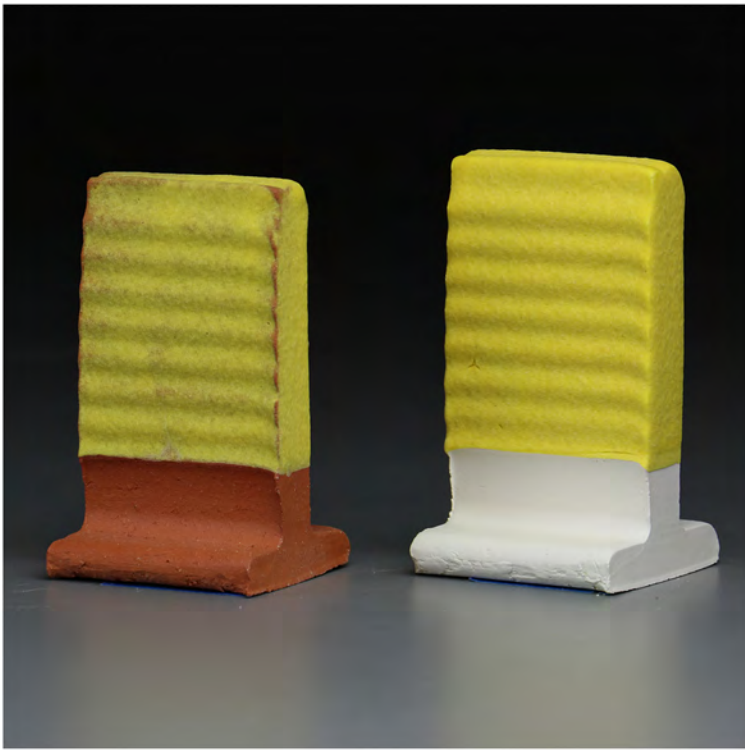
Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.33 Na ₂ O	} 0.33 Al ₂ O ₃ {	} 1.74 SiO ₂ {	} 0.02 Cr ₂ O ₃
0.07 K ₂ O			
0.21 CaO			
0.39 MgO			

R₂O : RO

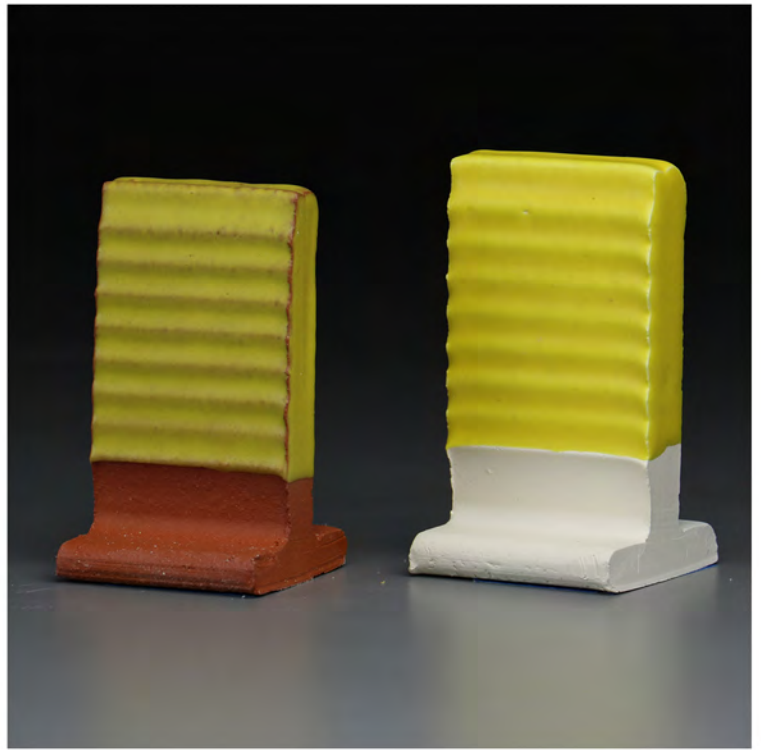
0.40 : 0.60

SiO₂ : Al₂O₃

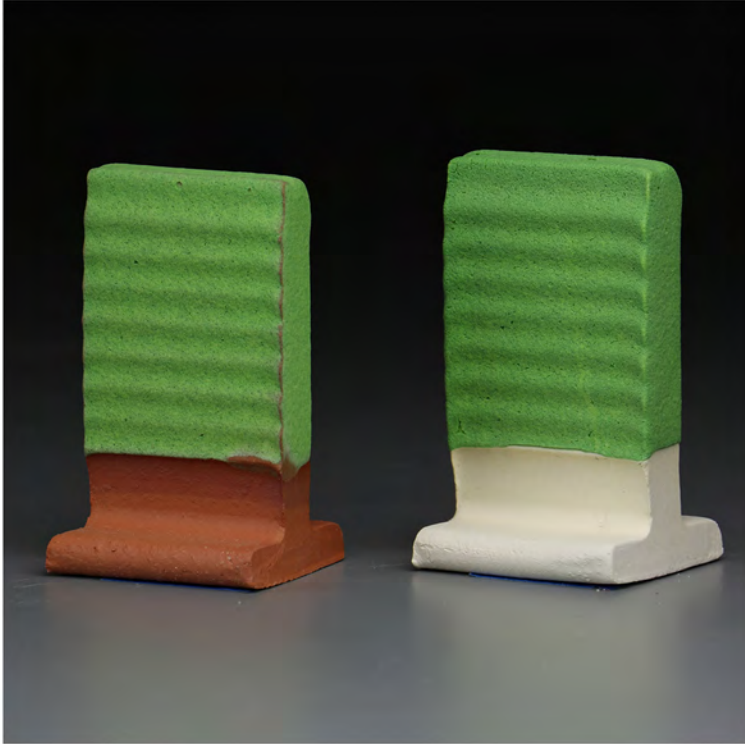
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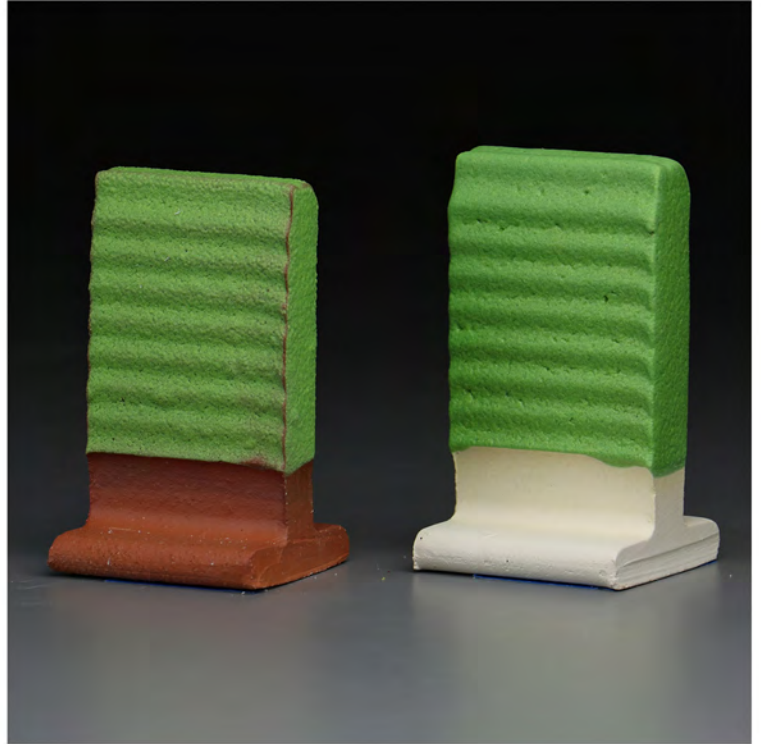
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Ryan's Green

Material	Amount
Ferro Frit 3110	70.10
Silica	8.80
Gerstley Borate	7.60
Soda Ash	7.50
EP Kaolin	6.00
Red Iron Oxide	5.50
Copper Carbonate	5.00
Chrome Oxide	0.13
Total	110.62

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.65 Na_2O	0.13 Al_2O_3 0.15 B_2O_3	2.79 SiO_2	0.09 Fe_2O_3 0.11 CuO
0.05 K_2O			
0.29 CaO			
0.02 MgO			

$R_2O : RO$

0.70 : 0.30

$SiO_2 : Al_2O_3$

21.28

Villendorf Red/Green

Material	Amount
EP Kaolin	26.10
Lithium Carbonate	22.20
Chrome Oxide	2.00
Total	50.30

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.99 Li_2O	0.31 Al_2O_3	0.65 SiO_2	0.04 Cr_2O_3

$R_2O : RO$

0.99 : 0.01

$SiO_2 : Al_2O_3$

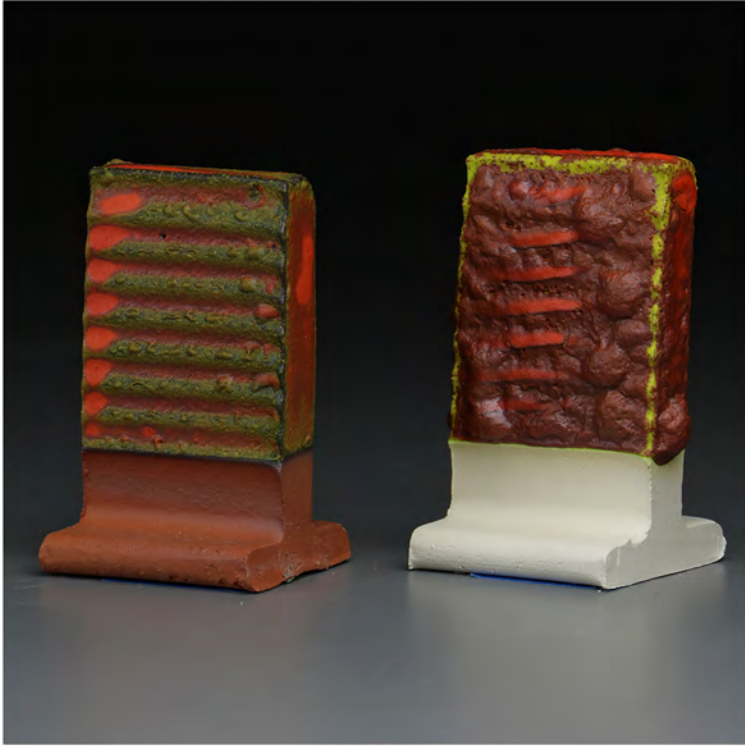
2.08



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Lisa Orr's Beautiful Leaf Green

Material	Amount
Ferro Frit 3110	67.00
Soda Ash	16.00
Red Iron Oxide	12.00
Gerstley Borate	10.00
Silica	8.00
EP Kaolin	5.00
Copper Carbonate	4.00
Bentonite	2.00
Chrome Oxide	0.25
Total	124.25

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.69 Na_2O	0.11 Al_2O_3 0.15 B_2O_3	2.26 SiO_2	0.16 Fe_2O_3 0.07 CuO
0.04 K_2O			
0.25 CaO			
0.02 MgO			

$R_2O : RO$

0.73 : 0.27

$SiO_2 : Al_2O_3$

20.89

Lisa Orr's Beautiful Gold

Material	Amount
Ferro Frit 3110	67.00
Soda Ash	16.00
Red Iron Oxide	12.00
Gerstley Borate	10.00
EP Kaolin	5.00
Bentonite	2.00
Total	112.00

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.69 Na_2O	0.11 Al_2O_3 0.15 B_2O_3	1.96 SiO_2	0.16 Fe_2O_3
0.04 K_2O			
0.25 CaO			
0.02 MgO			

$R_2O : RO$

0.73 : 0.27

$SiO_2 : Al_2O_3$

18.09



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△04



△06



△04

Lisa Orr's Beautiful Turquoise Blue

Material	Amount
Ferro Frit 3110	67.00
Soda Ash	16.00
Gerstley Borate	10.00
Silica	8.00
Copper Carbonate	6.00
EP Kaolin	5.00
Bentonite	2.00
Total	114.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.69 Na ₂ O	0.11 Al ₂ O ₃ 0.15 B ₂ O ₃	2.26 SiO ₂	0.11 CuO
0.04 K ₂ O			
0.25 CaO			
0.02 MgO			

R₂O : RO

0.73 : 0.27

SiO₂ : Al₂O₃

20.89

Lisa Orr's Beautiful Deep Blue

Material	Amount
Ferro Frit 3110	67.00
Soda Ash	16.00
Gerstley Borate	10.00
Silica	8.00
Copper Carbonate	6.00
EP Kaolin	5.00
Bentonite	2.00
Cobalt Carbonate	0.33
Total	114.33

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.69 Na ₂ O	0.11 Al ₂ O ₃ 0.15 B ₂ O ₃	2.26 SiO ₂	0.01 CoO 0.11 CuO
0.04 K ₂ O			
0.25 CaO			
0.02 MgO			

R₂O : RO

0.73 : 0.27

SiO₂ : Al₂O₃

20.89



△06



△04



△06



△04

Deep Intense Blue (DIB)

Material	Amount
Ferro Frit 3110	67.00
Soda Ash	16.00
Gerstley Borate	10.00
Copper Carbonate	6.00
EP Kaolin	5.00
Bentonite	2.00
Cobalt Carbonate	0.33
Total	106.33

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.69 Na_2O	0.11 Al_2O_3 0.15 B_2O_3	1.96 SiO_2	0.01 CoO 0.11 CuO
0.04 K_2O			
0.25 CaO			
0.02 MgO			

$R_2O : RO$

0.73 : 0.27

$SiO_2 : Al_2O_3$

18.09

Water Blue

Material	Amount
Ferro Frit 3110	77.00
Silica	10.00
EP Kaolin	7.30
Copper Carbonate	6.00
Gerstley Borate	5.70
Total	106.00

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.60 Na_2O	0.17 Al_2O_3 0.16 B_2O_3	3.48 SiO_2	0.15 CuO
0.06 K_2O			
0.33 CaO			
0.02 MgO			

$R_2O : RO$

0.66 : 0.34

$SiO_2 : Al_2O_3$

20.45



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△04



△06



△04

Deep Alkaline Turquoise

Material	Amount
Ferro Frit 3110	57.00
Ferro Frit 3195	19.00
Gerstley Borate	10.00
Silica	10.00
EP Kaolin	9.00
Copper Carbonate	5.00
Bentonite	2.00
Total	112.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.50 Na ₂ O	0.25 Al ₂ O ₃ 0.37 B ₂ O ₃	3.34 SiO ₂	0.12 CuO
0.05 K ₂ O			
0.42 CaO			
0.03 MgO			

R₂O : RO

0.55 : 0.45

SiO₂ : Al₂O₃

13.52

Bitchin' Blue

Material	Amount
Ferro Frit 3124	45.00
Silica	15.00
Neph Sye A270	15.00
Gerstley Borate	10.00
EP Kaolin	5.00
Talc	5.00
Whiting	5.00
Copper Carbonate	2.00
Total	102.00

UMF Analysis

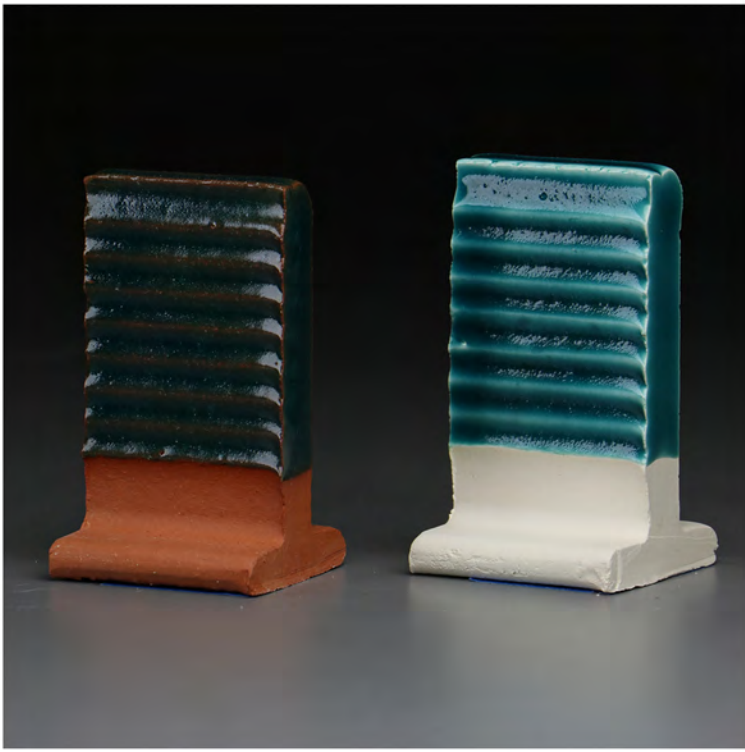
Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.23 Na ₂ O	0.29 Al ₂ O ₃ 0.38 B ₂ O ₃	2.77 SiO ₂	0.05 CuO
0.03 K ₂ O			
0.59 CaO			
0.14 MgO			

R₂O : RO

0.26 : 0.74

SiO₂ : Al₂O₃

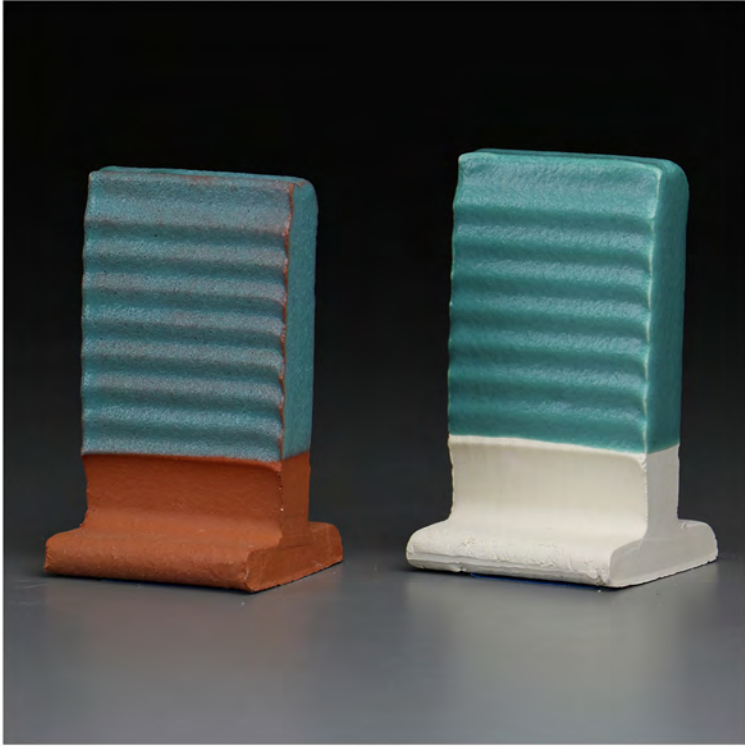
9.51



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New Gill Blue

Material	Amount
Ferro Frit 3124	40.18
Gerstley Borate	28.62
Silica	19.80
Minspar 200	5.74
EP Kaolin	5.66
Copper Carbonate	3.00
Total	103.00

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.22 Na_2O	0.24 Al_2O_3 0.63 B_2O_3	2.94 SiO_2	0.08 CuO
0.02 K_2O			
0.67 CaO			
0.08 MgO			

$R_2O : RO$

0.24 : 0.76

$SiO_2 : Al_2O_3$

12.03

RISD Lithium Blue

Material	Amount
Silica	52.00
Lithium Carbonate	26.50
EP Kaolin	11.50
Copper Carbonate	3.70
Whiting	3.30
Bentonite	1.00
Bone Ash	1.00
Total	99.00

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.89 Li_2O	0.11 Al_2O_3	2.37 SiO_2	0.01 P_2O_5 0.07 CuO
0.11 CaO			

$R_2O : RO$

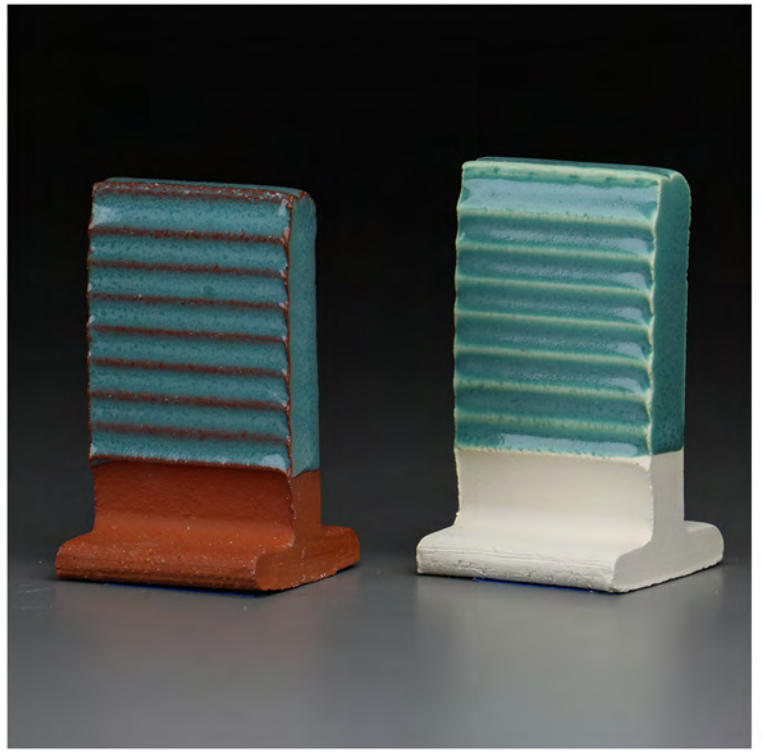
0.89 : 0.11

$SiO_2 : Al_2O_3$

21.83



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Barium Blue

Material	Amount
Minspar 200	30.00
Barium Carbonate	16.00
EP Kaolin	15.00
Silica	12.00
Lithium Carbonate	10.00
Ferro Frit 3110	9.00
Whiting	8.00
Cobalt Carbonate	1.00
Total	101.00

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.14 Na_2O	0.29 Al_2O_3 0.01 B_2O_3	1.97 SiO_2	0.02 CoO
0.04 K_2O			
0.35 Li_2O			
0.21 BaO			
0.26 CaO			

$R_2O : RO$

0.53 : 0.47

$SiO_2 : Al_2O_3$

6.75

Varda's Glaze for Sculpture

Material	Amount
Barium Carbonate	43.00
EP Kaolin	20.00
Neph Sye A270	20.00
Silica	11.00
Copper Carbonate	7.00
Lithium Carbonate	5.00
Total	106.00

UMF Analysis

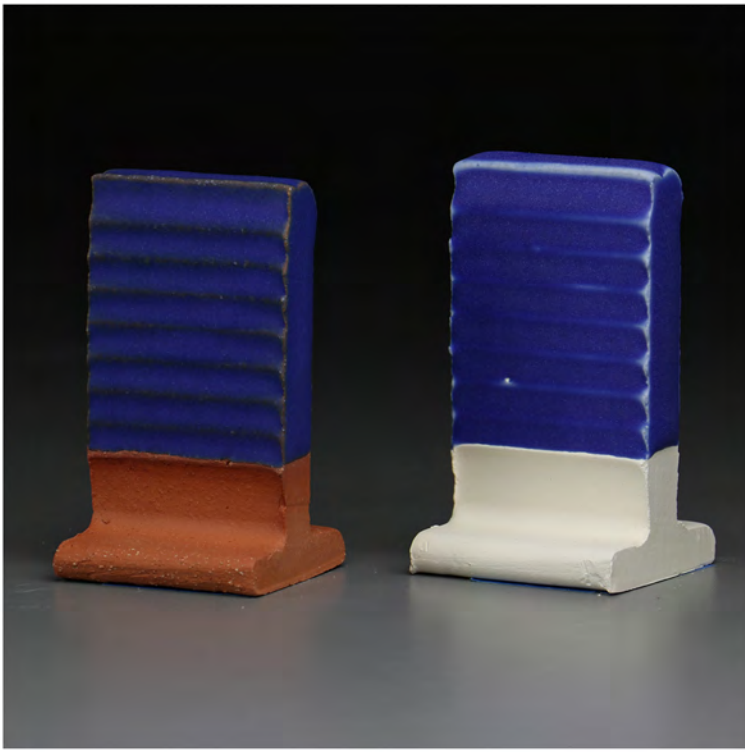
Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.10 Na_2O	0.36 Al_2O_3	1.61 SiO_2	0.17 CuO
0.03 K_2O			
0.20 Li_2O			
0.65 BaO			
0.01 CaO			

$R_2O : RO$

0.34 : 0.66

$SiO_2 : Al_2O_3$

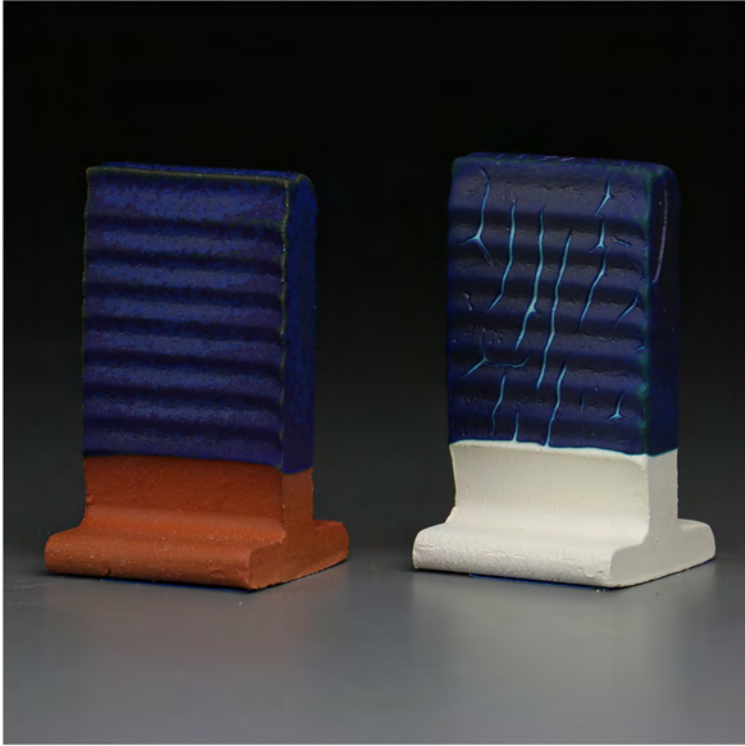
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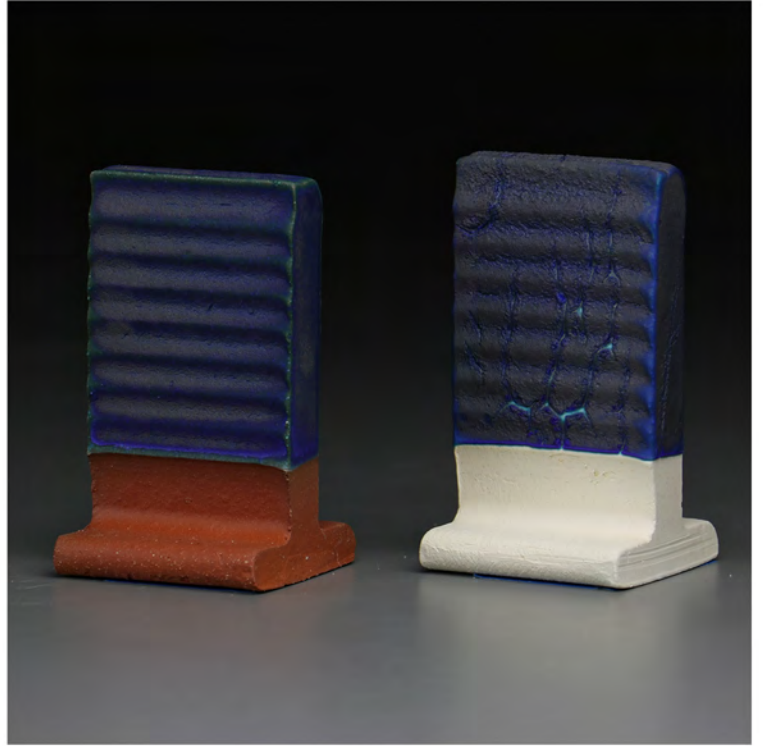
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Lana's Purple Aqua

Material	Amount
Barium Carbonate	45.00
Neph Sye A270	45.00
Copper Carbonate	8.00
Pemco Frit P-626	4.00
Bentonite	2.00
Total	104.00

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.23 Na_2O	0.32 Al_2O_3 0.02 B_2O_3	1.47 SiO_2	0.19 CuO
0.07 K_2O			
0.68 BaO			
0.01 CaO			

$R_2O : RO$

0.30 : 0.70

$SiO_2 : Al_2O_3$

4.57

Pagan's Purple

Material	Amount
Barium Carbonate	30.20
Lithium Carbonate	20.40
Silica	16.30
Whiting	9.50
Zinc Oxide	5.40
Green nickel oxide	3.00
Total	84.80

UMF Analysis

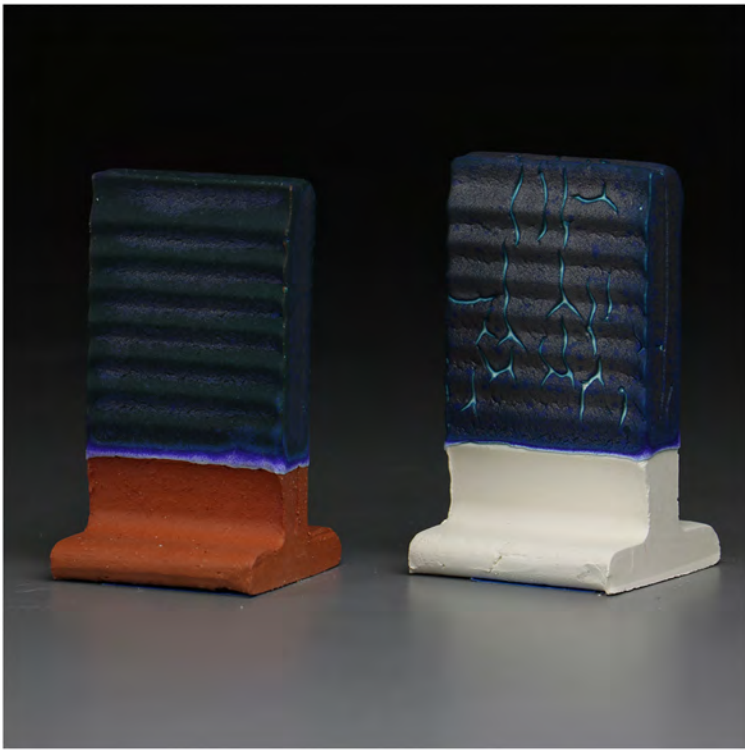
Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.47 Li_2O		0.46 SiO_2	0.07 NiO
0.26 BaO			
0.11 ZnO			
0.16 CaO			

$R_2O : RO$

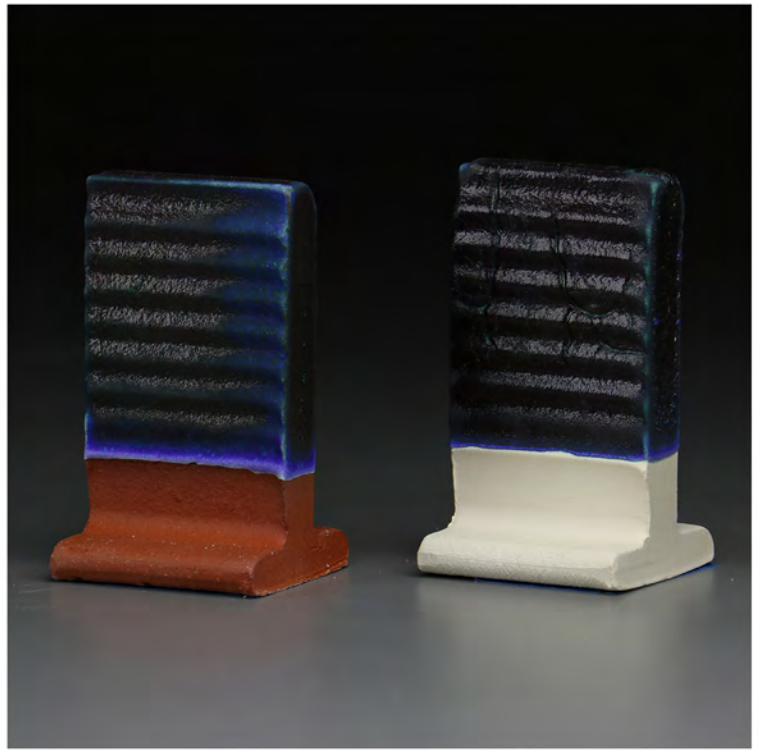
0.47 : 0.53

$SiO_2 : Al_2O_3$

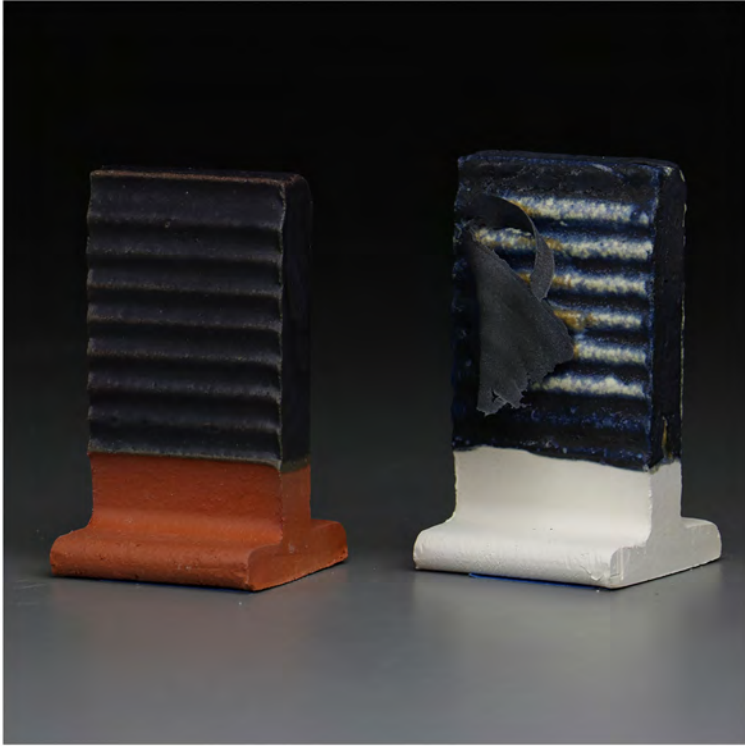
0.00



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Jacquie's Crimson

Material	Amount
Silica	42.00
Gerstley Borate	38.00
Lithium Carbonate	10.00
Mason Stain #6006 Deep Crimson	10.00
EP Kaolin	5.00
Neph Sye A270	5.00
Total	110.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.10 Na ₂ O	0.10 Al ₂ O ₃ 0.43 B ₂ O ₃	{ 2.60 SiO ₂
0.01 K ₂ O		
0.40 Li ₂ O		
0.39 CaO		
0.10 MgO		

R₂O : RO

0.51 : 0.49

SiO₂ : Al₂O₃

26.19

Fuzzy Melon

Material	Amount
Kona F-4 feldspar (Discontinued)	30.00
Barium Carbonate	16.00
EP Kaolin	15.00
Silica	12.00
Lithium Carbonate	10.00
Ferro Frit 3110	9.00
Whiting	8.00
Mason Stain #6021 Dark Red	8.00
Total	108.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂
0.14 Na ₂ O	0.30 Al ₂ O ₃ 0.01 B ₂ O ₃	{ 1.92 SiO ₂
0.05 K ₂ O		
0.35 Li ₂ O		
0.21 BaO		
0.25 CaO		

R₂O : RO

0.54 : 0.46

SiO₂ : Al₂O₃

6.49



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Water Violet

Material	Amount
Ferro Frit 3110	77.00
Silica	10.00
EP Kaolin	7.30
Mason Stain #6304 Violet Chrome Tin	6.00
Gerstley Borate	5.70
Total	106.00

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2
0.60 Na_2O	0.17 Al_2O_3 0.16 B_2O_3	3.48 SiO_2
0.06 K_2O		
0.33 CaO		
0.02 MgO		

$R_2O : RO$

0.66 : 0.34

$SiO_2 : Al_2O_3$

20.45

Aventurine

Material	Amount
Silica	40.00
Borax	39.00
Red Iron Oxide	15.00
Boric Acid	2.70
Barium Carbonate	2.20
EP Kaolin	1.40
Total	100.30

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.90 Na_2O	0.05 Al_2O_3 1.99 B_2O_3	5.95 SiO_2	0.79 Fe_2O_3
0.10 BaO			

$R_2O : RO$

0.90 : 0.10

$SiO_2 : Al_2O_3$

131.85



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Denise's Lizard Skin

Material	Amount
Ferro Frit 3195	55.00
Dolomite	17.20
Talc	16.50
EP Kaolin	6.30
Vanadium pentoxide	6.00
Silica	5.00
Bentonite	2.00
Silicon carbide	0.60
Total	108.60

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.11 Na ₂ O 0.43 CaO 0.47 MgO	0.19 Al ₂ O ₃ 0.37 B ₂ O ₃	1.59 SiO ₂	0.07 V ₂ O ₅

R₂O : RO

0.11 : 0.89

SiO₂ : Al₂O₃

8.37

Jacquie's Dino Grey

Material	Amount
Silica	42.00
Gerstley Borate	38.00
Lithium Carbonate	10.00
EP Kaolin	5.00
Neph Sye A270	5.00
Iron chromate	4.00
Total	104.00

UMF Analysis

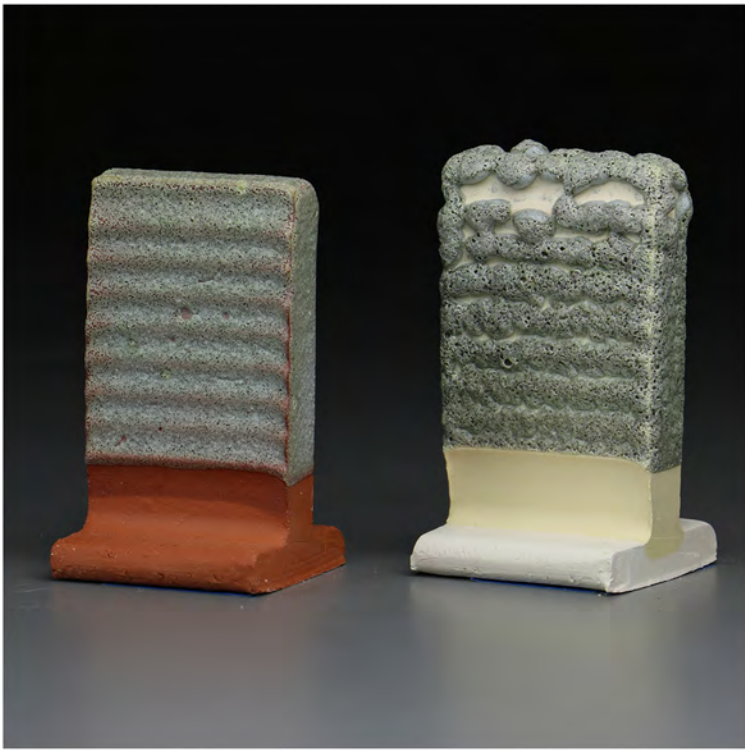
Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.10 Na ₂ O 0.01 K ₂ O 0.40 Li ₂ O 0.39 CaO 0.10 MgO	0.10 Al ₂ O ₃ 0.43 B ₂ O ₃	2.60 SiO ₂	0.04 Fe ₂ O ₃ 0.03 Cr ₂ O ₃

R₂O : RO

0.51 : 0.49

SiO₂ : Al₂O₃

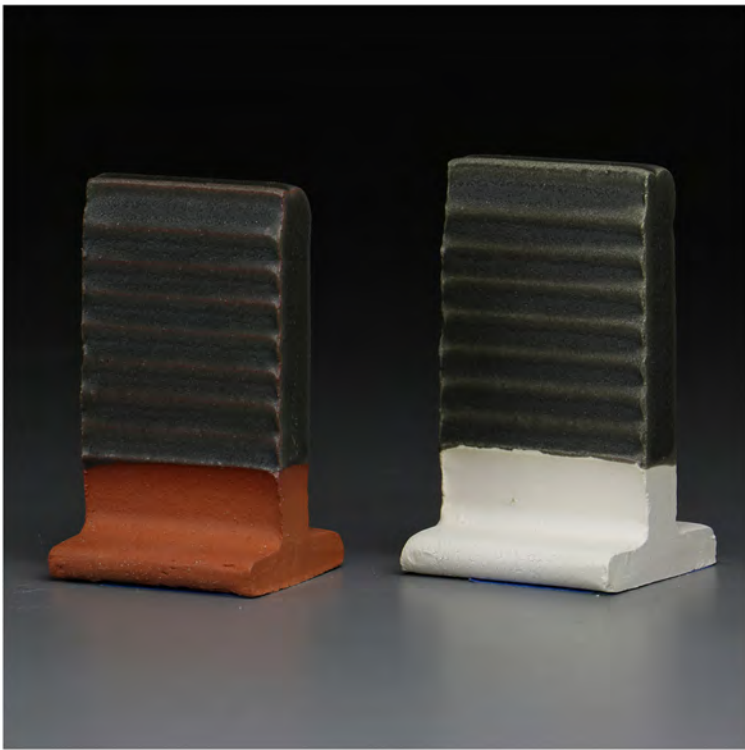
26.19



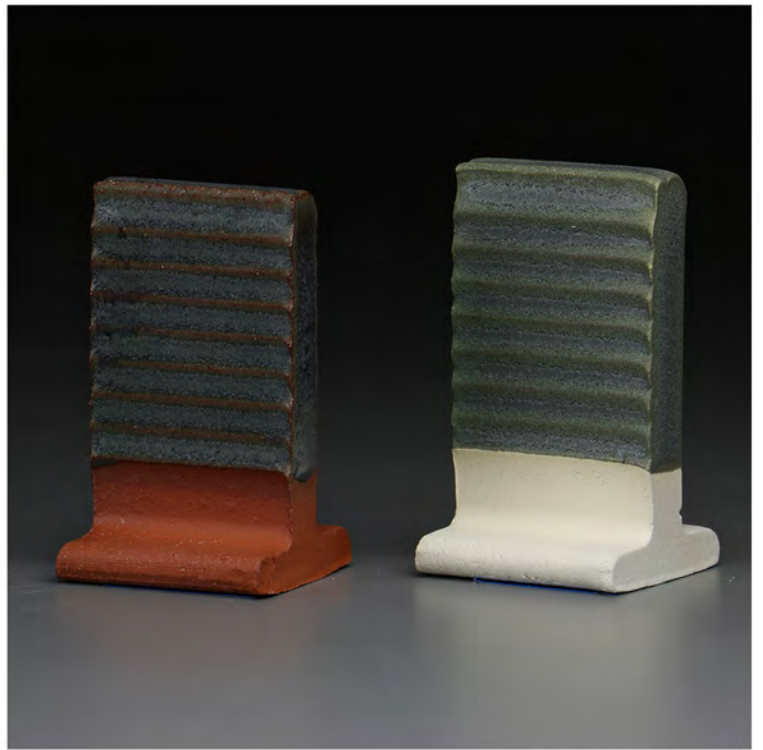
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Sugar Baby Black

Material	Amount
Spodumene	35.00
Lithium Carbonate	25.00
Silica	25.00
Mason 6600 black stain	10.00
Barium Carbonate	5.00
Black Iron Oxide	5.00
Black Copper Oxide	5.00
Granular ilmenite	5.00
Talc	5.00
Bentonite	2.00
Cobalt Oxide	2.00
Total	124.00

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.87 Li_2O 0.05 BaO 0.08 MgO	} 0.20 Al_2O_3	{ 1.72 SiO_2 0.07 TiO_2	{ 0.10 FeO 0.04 Fe_2O_3 0.05 CoO 0.13 CuO

$R_2O : RO$

0.87 : 0.13

$SiO_2 : Al_2O_3$

8.82

Katrina's Excellent Black

Material	Amount
Ferro Frit 3195	42.50
EP Kaolin	23.50
Wollastonite	13.70
Silica	10.70
Mason 6600 black stain	5.00
Bentonite	2.00
Total	97.40

UMF Analysis

Fluxes R_2O & RO	Stabilizers R_2O_3	Glass-Formers RO_2	Other
0.16 Na_2O 0.83 CaO 0.01 MgO	} 0.56 Al_2O_3 0.56 B_2O_3	{ 3.37 SiO_2	{ 0.01 Fe_2O_3

$R_2O : RO$

0.17 : 0.83

$SiO_2 : Al_2O_3$

5.98



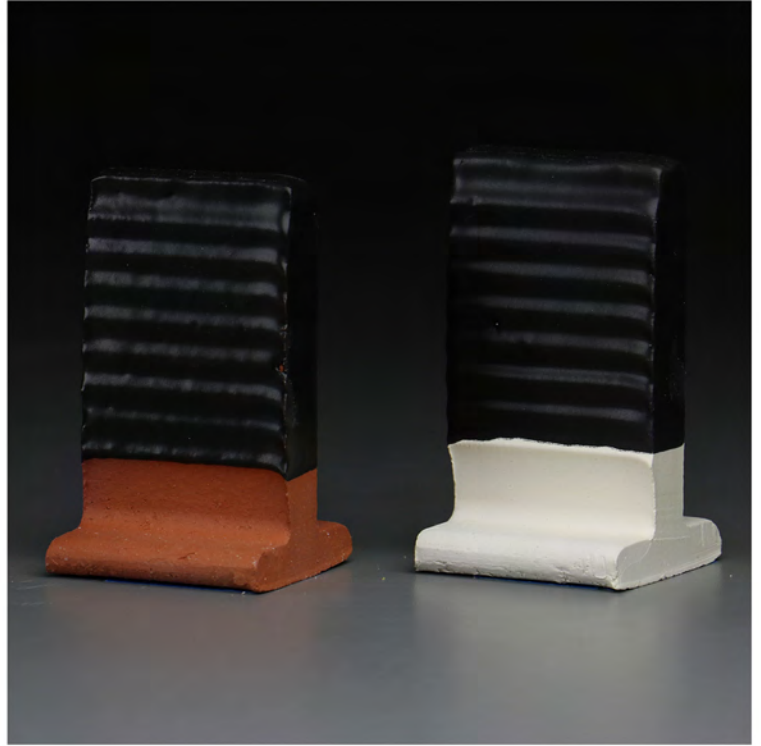
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Brainy Black

Material	Amount
Mahavir Potash Feldspar	30.00
Ferro Frit 3124	19.00
Barium Carbonate	15.00
Whiting	11.00
EP Kaolin	10.00
Gerstley Borate	10.00
Manganese Dioxide	6.00
Copper Carbonate	5.00
Zinc Oxide	5.00
Red Iron Oxide	2.00
Chrome Oxide	1.00
Total	114.00

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.10 Na ₂ O 0.09 K ₂ O 0.18 BaO 0.15 ZnO 0.46 CaO 0.02 MgO	0.26 Al ₂ O ₃ 0.18 B ₂ O ₃	1.45 SiO ₂	0.03 Fe ₂ O ₃ 0.14 MnO ₂ 0.02 Cr ₂ O ₃ 0.10 CuO

R₂O : RO

0.19 : 0.81

SiO₂ : Al₂O₃

5.67

Juan's Galaxy Black/Gunmetal

Material	Amount
Ceraflux KF325#10R Feldspar Thailand	70.00
Ferro Frit 3195	20.00
Peerless 3 Kaolin	10.00
Black Copper Oxide	7.60
Mason 6600 black stain	4.00
Bentonite	1.80
Total	113.40

UMF Analysis

Fluxes R ₂ O & RO	Stabilizers R ₂ O ₃	Glass-Formers RO ₂	Other
0.32 Na ₂ O 0.44 K ₂ O 0.23 CaO 0.01 MgO	1.04 Al ₂ O ₃ 0.35 B ₂ O ₃	5.49 SiO ₂ 0.01 TiO ₂	0.01 Fe ₂ O ₃ 0.51 CuO

R₂O : RO

0.76 : 0.24

SiO₂ : Al₂O₃

5.26



△06



△04



△06



△04