

My Blue Heaven- Δ 10

Lab 1-Pick-A-Part



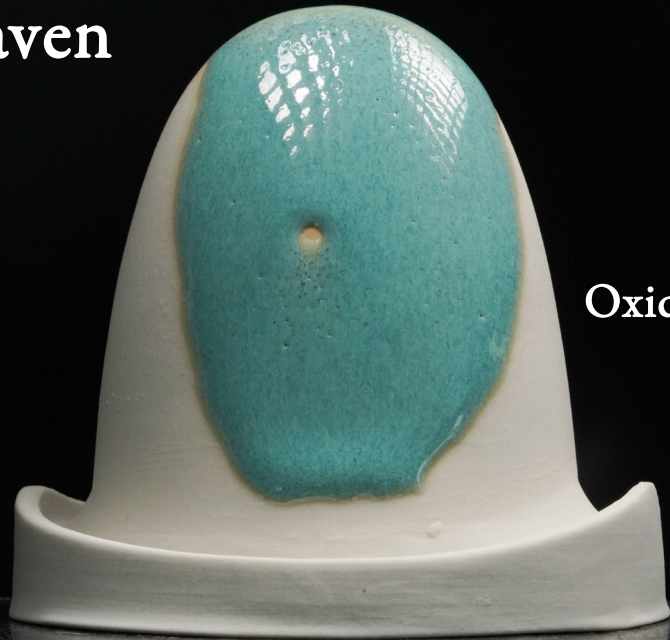
Ceramic
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My Blue Heaven

Original
062622-1

Neph Sy	33.10
Whiting	22.16
EPK	1.66
Flint	40.98
Bentonite	2.10
Titanium Dioxide	2.90
Copper Carbonate	2.10
Tin Oxide	1.05
Water	60

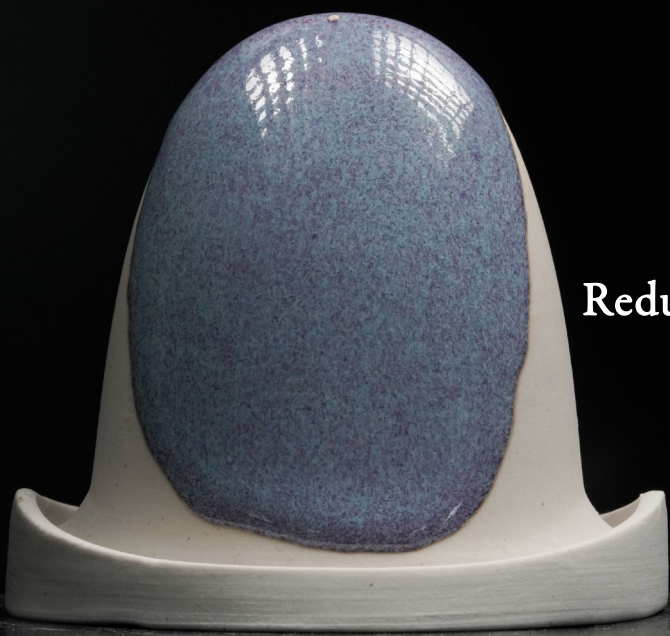


Oxidation

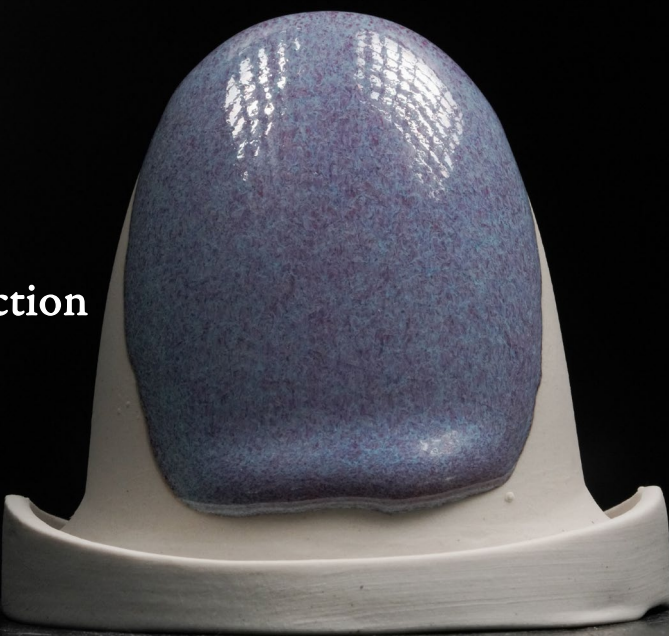
1-3 Second Dip



2-3 Second Dips

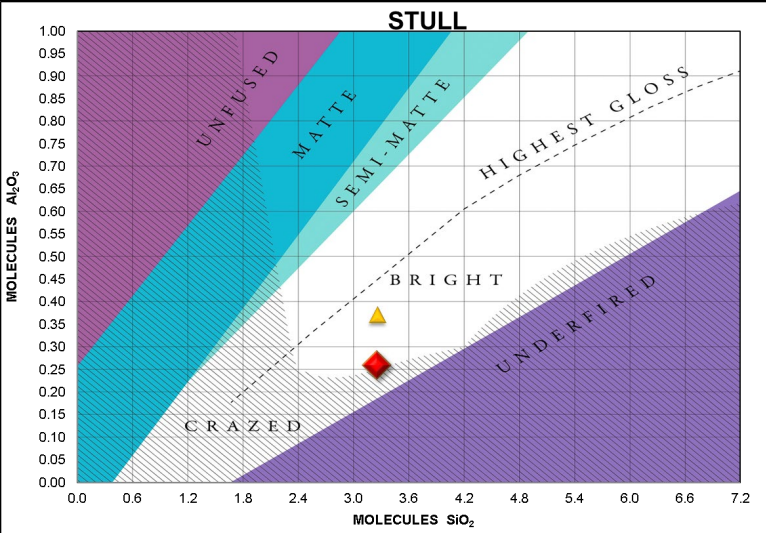


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 12.51 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.52	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.01	CaO 0.75
B ₂ O ₃	Al ₂ O ₃ 0.28	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.75 : 1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 3.26	Collective "Al ₂ O ₃ " 0.37	Na ₂ O 0.17	K ₂ O 0.05	MgO 0.01	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.11	NiO	Bi ₂ O ₃	SnO ₂ 0.02	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

Lab 1-Oxidation



062622-1



062622-2



062622-3



062622-4



062622-5



062622-6



Original



w/o Neph Sy



w/o Whiting



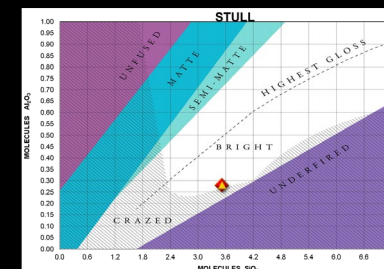
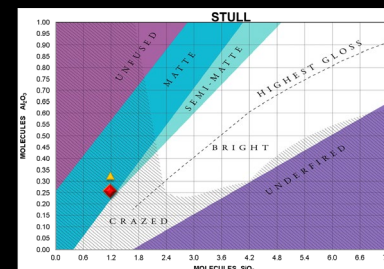
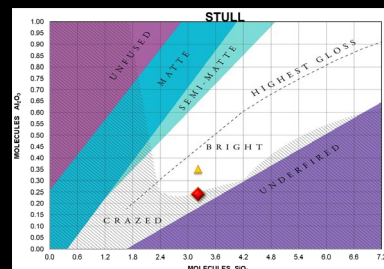
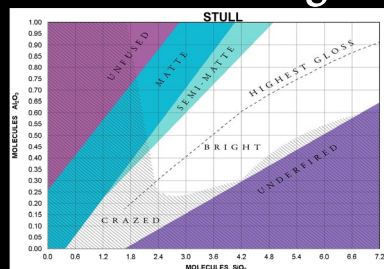
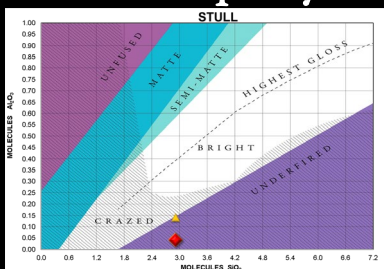
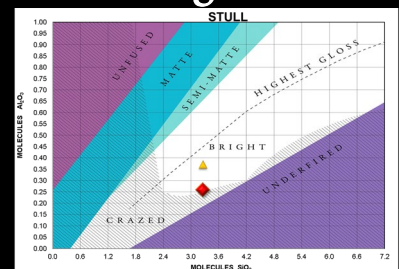
w/o Kaolin



w/o Flint



w/o Colorants



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Lab 1-Reduction



062622-1



062622-2



062622-3



062622-4



062622-5



062622-6



Original



w/o Neph Sy



w/o Whiting



w/o Kaolin



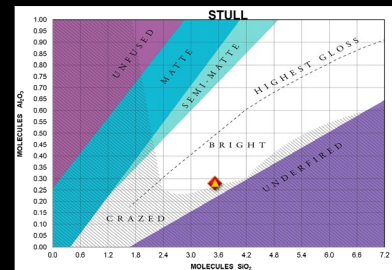
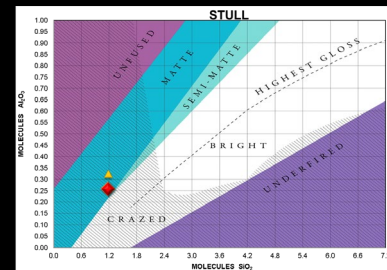
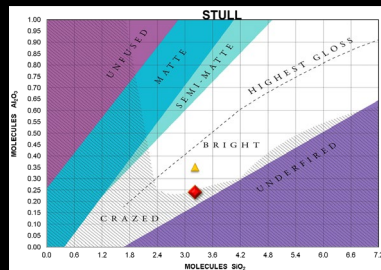
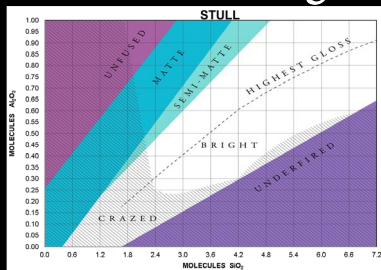
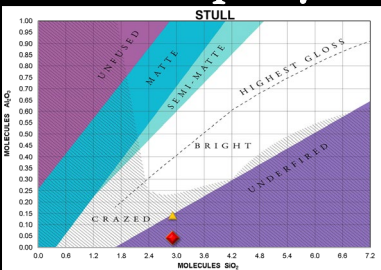
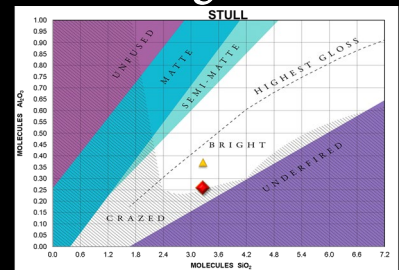
w/o Flint



w/o Colorants

1-3 Second Dip

2-3 Second Dips



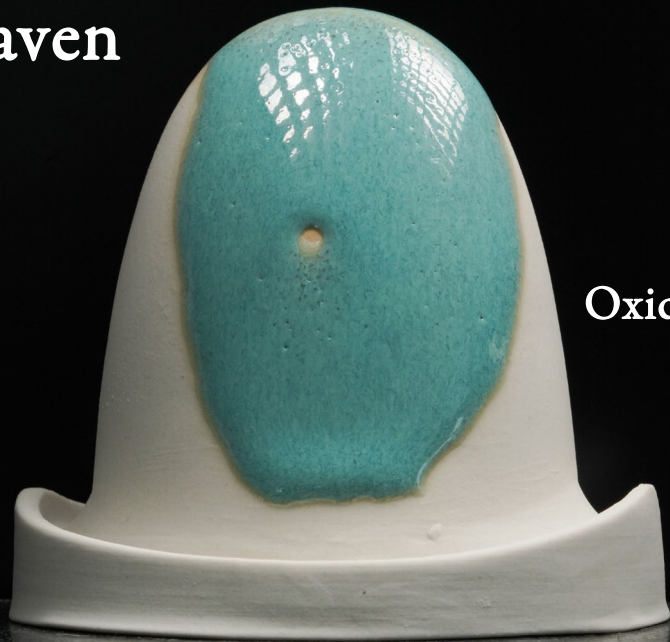
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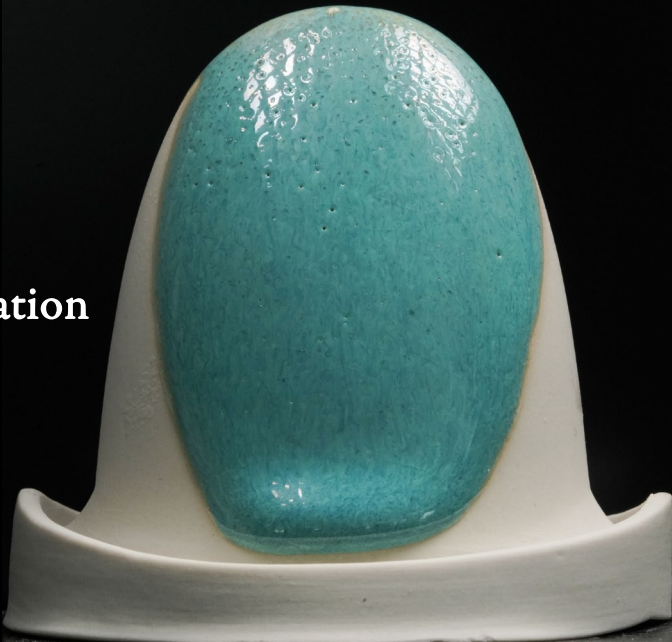
Original
062622-1

Neph Sy	33.10
Whiting	22.16
EPK	1.66
Flint	40.98
Bentonite	2.10
Titanium Dioxide	2.90
Copper Carbonate	2.10
Tin Oxide	1.05
Water	60

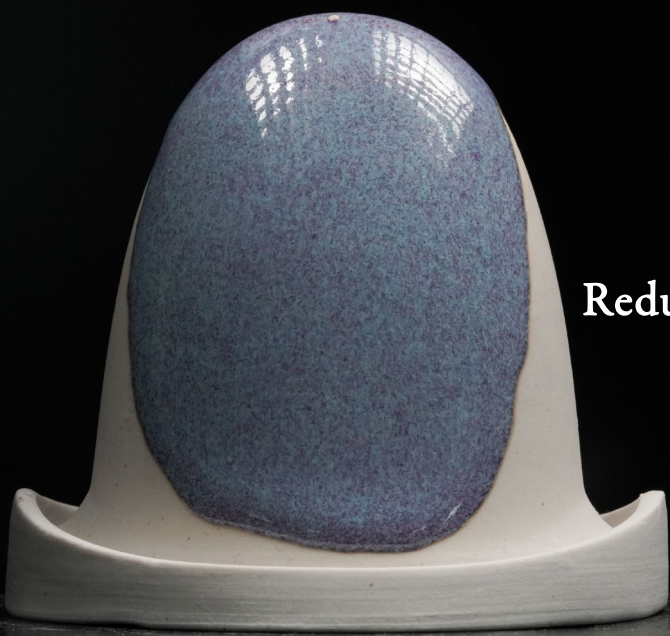


Oxidation

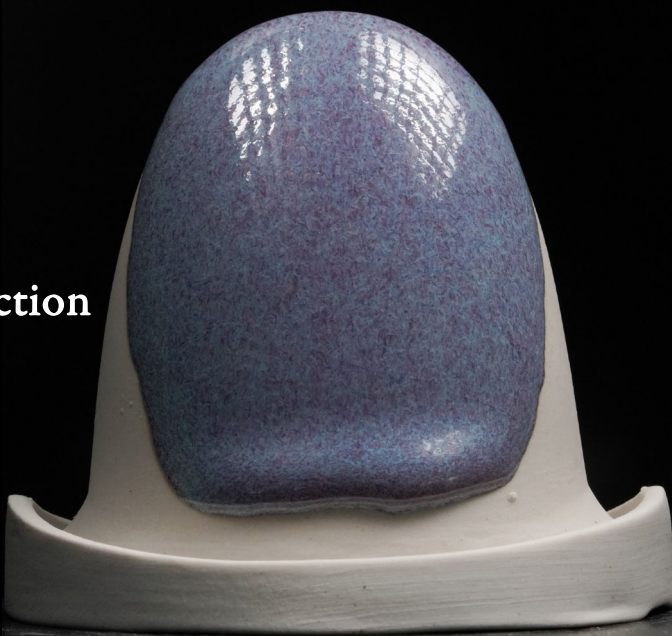
1-3 Second Dip



2-3 Second Dips

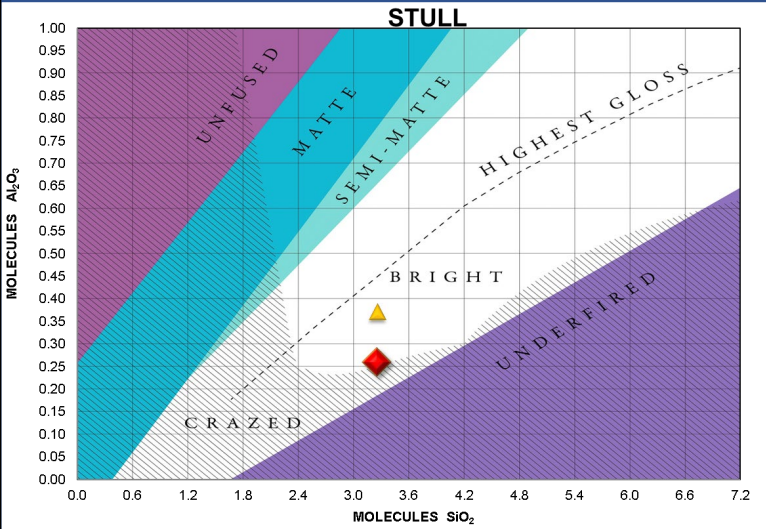


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 12.51 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.52	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.01	CaO 0.75
B ₂ O ₃	Al ₂ O ₃ 0.28	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.75 :1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 3.26	Collective "Al ₂ O ₃ " 0.37	Na ₂ O 0.17	K ₂ O 0.05	MgO 0.01	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.11	NiO	Bi ₂ O ₃	SnO ₂ 0.02	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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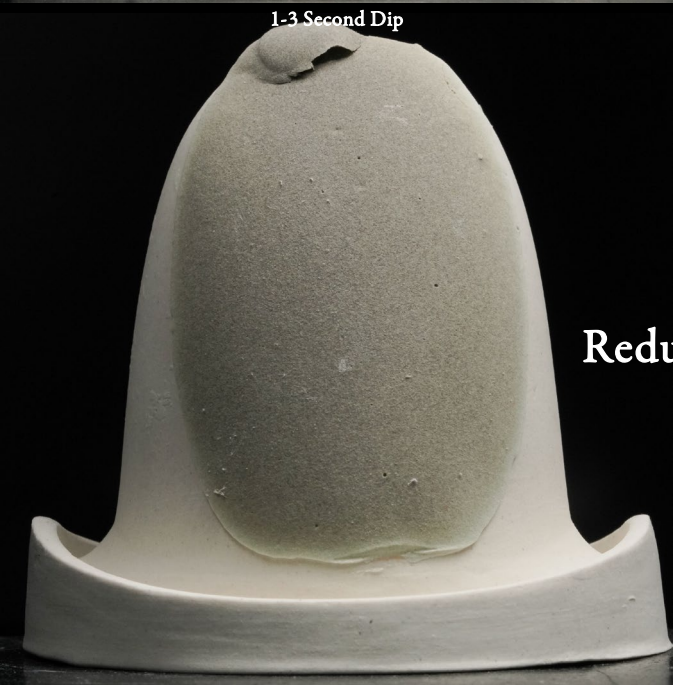
My Blue Heaven

w/o Alkali Metal
062622-2

Neph Sy	
Whiting	33.53
EPK	2.51
Flint	62.00
Bentonite	1.96
Titanium Dioxide	2.92
Copper Carbonate	2.12
Tin Oxide	1.06
Water	60



Oxidation

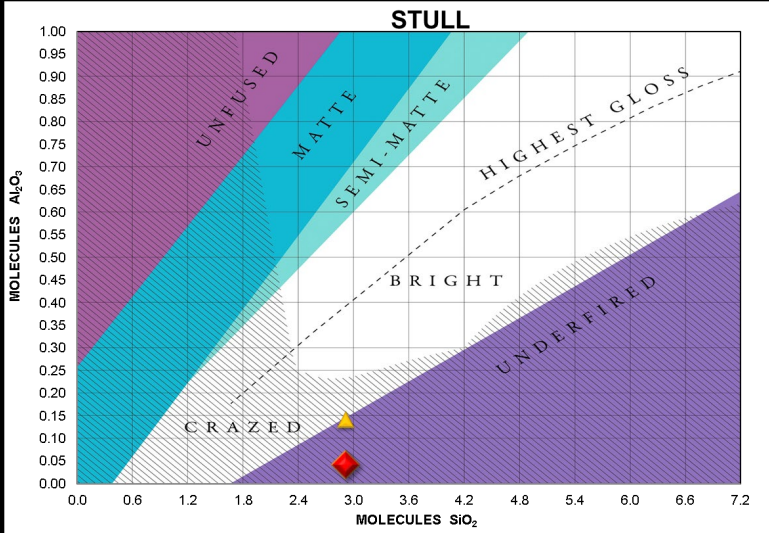


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 66.68 :1		Alkali Metals 0.00		Alkaline Earths 1.00	
SiO ₂ 3.12	Collective "Al ₂ O ₃ " 0.05	Na ₂ O 0.00	K ₂ O 0.00	MgO 0.00	CaO 0.99
B ₂ O ₃	Al ₂ O ₃ 0.05	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 20.37 :1		Alkali Metals 0.07		Alkaline Earths 0.93	
SiO ₂ 2.91	Collective "Al ₂ O ₃ " 0.14	Na ₂ O 0.00	K ₂ O 0.00	MgO 0.00	CaO 0.92
B ₂ O ₃	Al ₂ O ₃ 0.04	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.10	NiO	Bi ₂ O ₃	SnO ₂ 0.02	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

My Blue Heaven

w/o Alkaline Earth

062622-3

Neph Sy	42.84
Whiting	
EPK	2.15
Flint	53.05
Bentonite	1.96
Titanium Dioxide	2.92
Copper Carbonate	2.12
Tin Oxide	1.06
Water	60

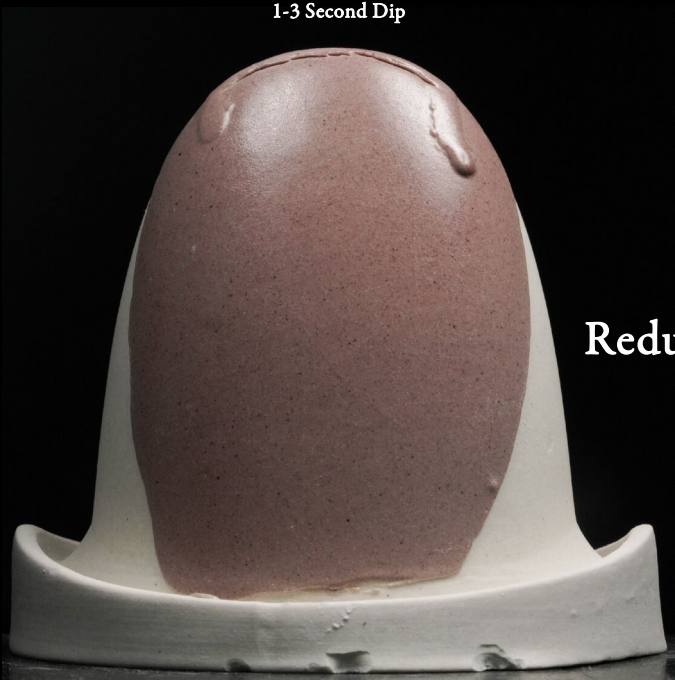


Oxidation

1-3 Second Dip



2-3 Second Dips

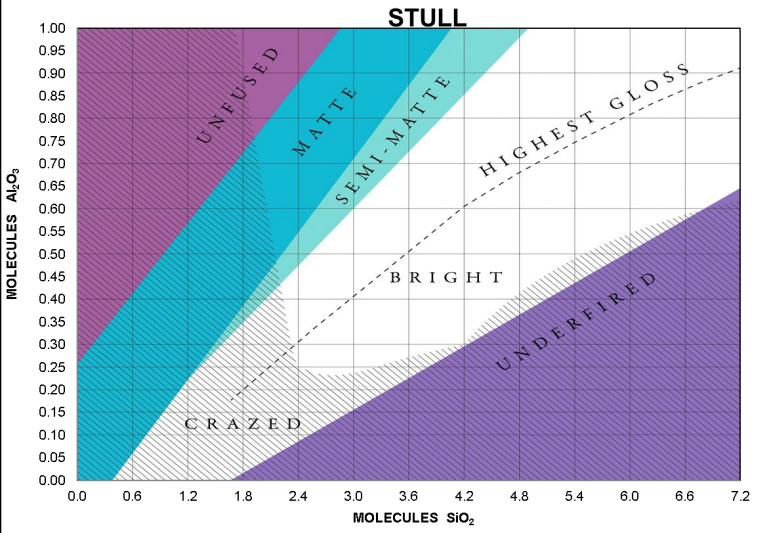


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 12.62 :1		Alkali Metals 0.94		Alkaline Earths 0.06	
SiO ₂ 13.73	Collective "Al ₂ O ₃ " 1.09	Na ₂ O 0.73	K ₂ O 0.20	MgO 0.02	CaO 0.03
B ₂ O ₃	Al ₂ O ₃ 1.08	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 9.44 :1		Alkali Metals 0.95		Alkaline Earths 0.05	
SiO ₂ 11.01	Collective "Al ₂ O ₃ " 1.17	Na ₂ O 0.59	K ₂ O 0.16	MgO 0.01	CaO 0.02
B ₂ O ₃	Al ₂ O ₃ 0.87	Li ₂ O	CuO 0.14	SrO	BaO
TiO ₂ 0.30	NiO	Bi ₂ O ₃	SnO ₂ 0.06	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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My Blue Heaven

w/o Kaolin
062622-4

Neph Sy	33.72
Whiting	22.57
EPK	
Flint	41.75
Bentonite	1.96
Titanium Dioxide	2.92
Copper Carbonate	2.12
Tin Oxide	1.06
Water	60



Oxidation

1-3 Second Dip



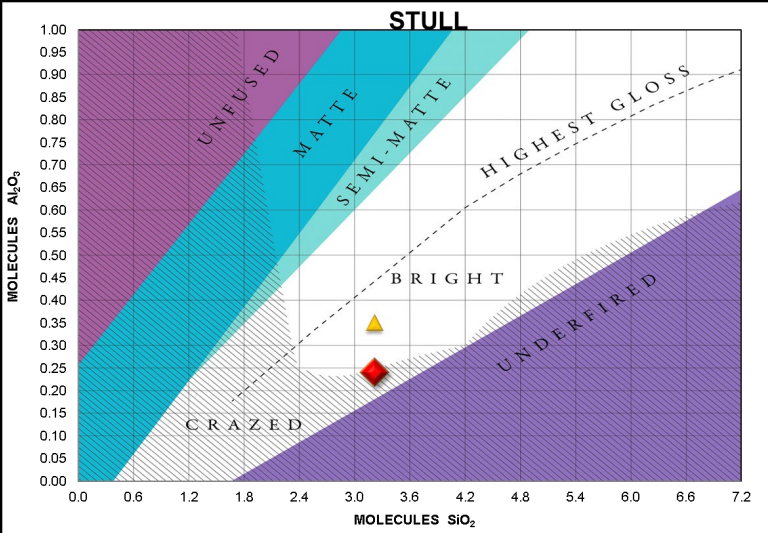
2-3 Second Dips



Reduction

UMF

SiO ₂ :Al ₂ O ₃ Ratio 13.31 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.48	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.00	CaO 0.75
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 9.14 : 1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 3.22	Collective "Al ₂ O ₃ " 0.35	Na ₂ O 0.17	K ₂ O 0.05	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.24	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.11	NiO	Bi ₂ O ₃	SnO ₂ 0.02	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
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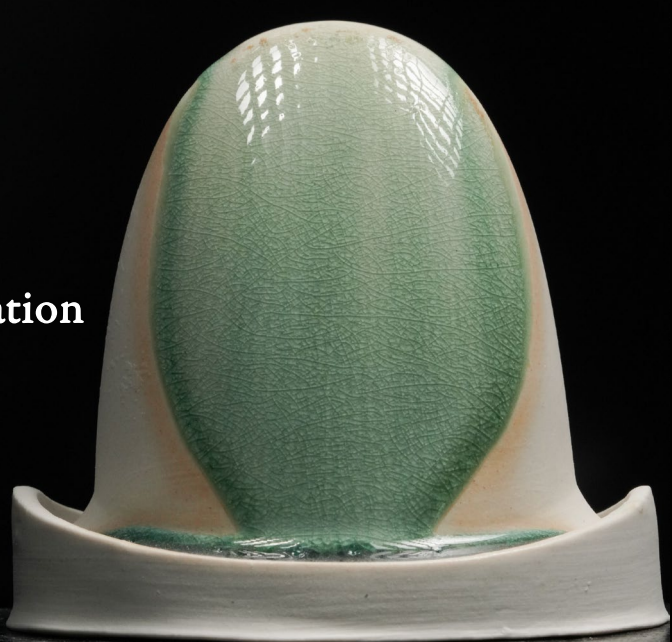
My Blue Heaven

w/o Silica
062622-5

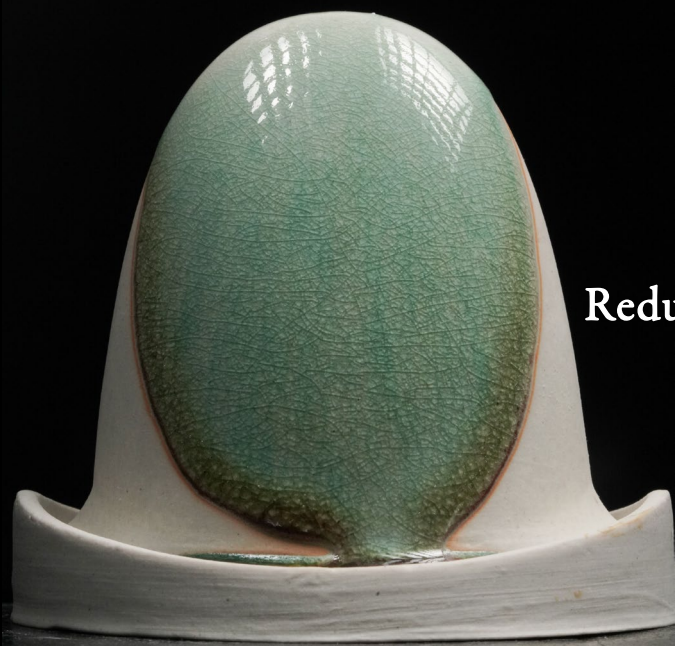
Neph Sy	57.01
Whiting	38.17
EPK	2.86
Flint	
Bentonite	1.96
Titanium Dioxide	2.92
Copper Carbonate	2.12
Tin Oxide	1.06
Water	60



1-3 Second Dip



2-3 Second Dips



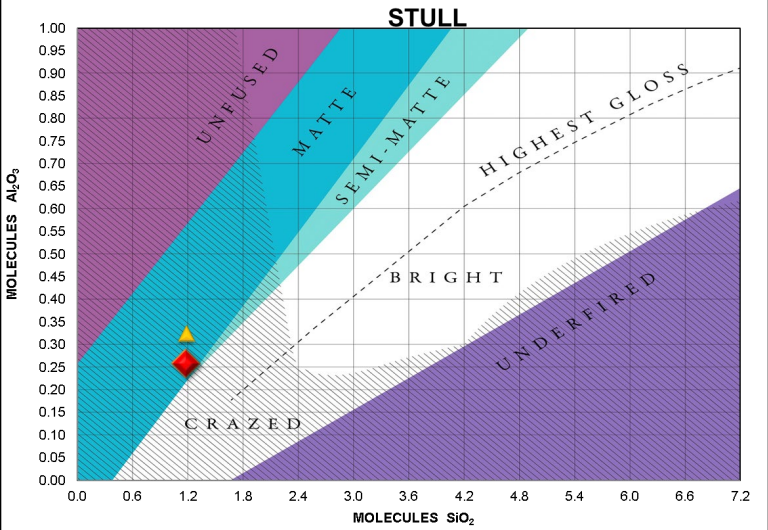
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 4.59 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 1.24	Collective "Al ₂ O ₃ " 0.27	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.00	CaO 0.76
B ₂ O ₃	Al ₂ O ₃ 0.27	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 3.64 : 1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 1.18	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.72
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO 0.03	SrO	BaO
TiO ₂ 0.07	NiO	Bi ₂ O ₃	SnO ₂ 0.01	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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My Blue Heaven

w/o Colorants
062622-6

Neph Sy	33.10
Whiting	22.16
EPK	1.66
Flint	40.98
Bentonite	2.10
Titanium Dioxide	
Copper Carbonate	
Tin Oxide	
Water	60



1-3 Second Dip



2-3 Second Dips



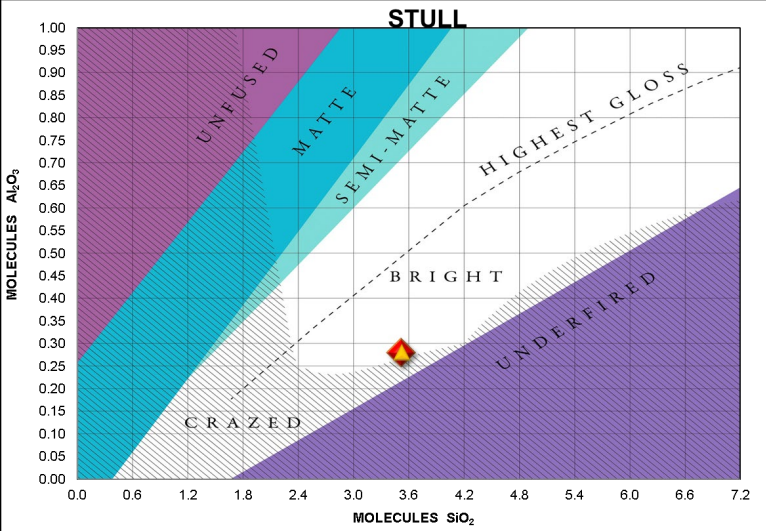
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 12.51 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.52	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.01	CaO 0.75
B ₂ O ₃	Al ₂ O ₃ 0.28	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 12.51 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.52	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.01	CaO 0.75
B ₂ O ₃	Al ₂ O ₃ 0.28	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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