

Katz Burke Matte- Δ 6

Lab 1-Pick-A-Part

KB Matte

Original

070522-1

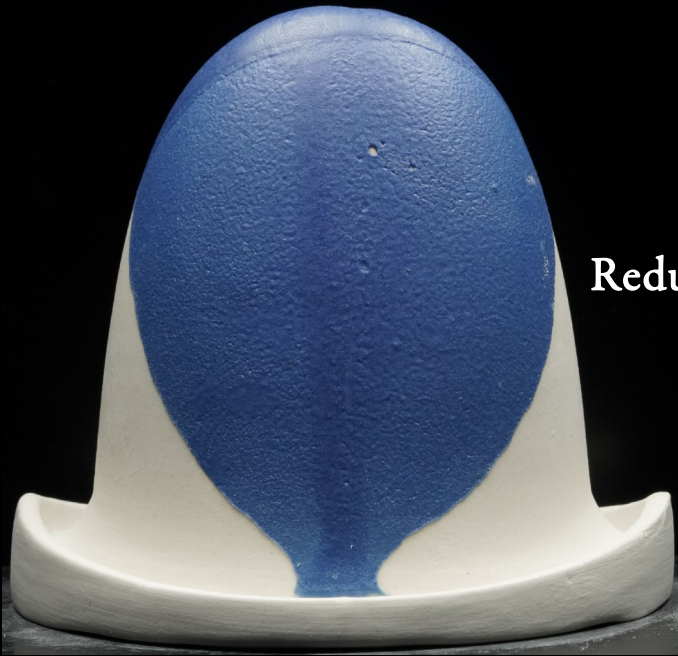
Neph Sy	19.71
Whiting	16.76
EPK	34.85
Flint	12.91
3134	15.77
Cobalt Carbonate	1.01
Water	100



1-3 Second Dip



2-3 Second Dips



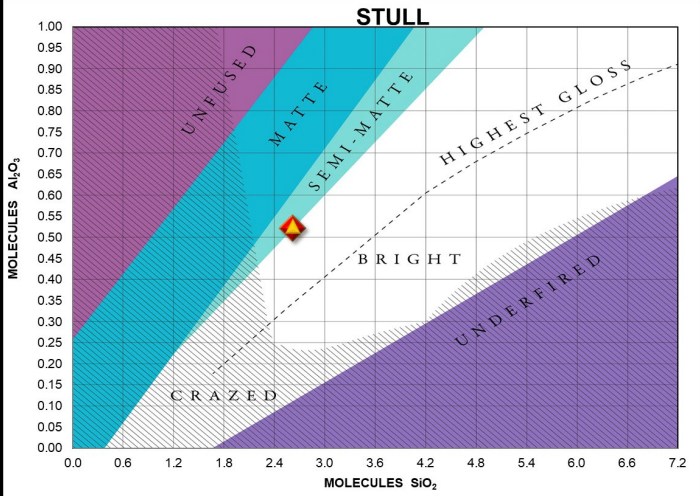
Reduction



Reduction

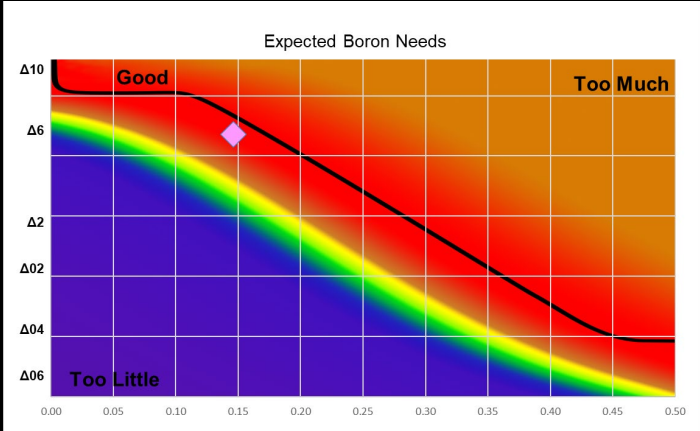
UMF

SiO ₂ :Al ₂ O ₃ Ratio 4.97 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.69	Collective "Al ₂ O ₃ " 0.54	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.01	CaO 0.75
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.54	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	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 4.97 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.62	Collective "Al ₂ O ₃ " 0.53	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.00	CaO 0.73
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.52	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.03



Ceramic
Materials
Workshop

Lab 1-Oxidation



070522-1

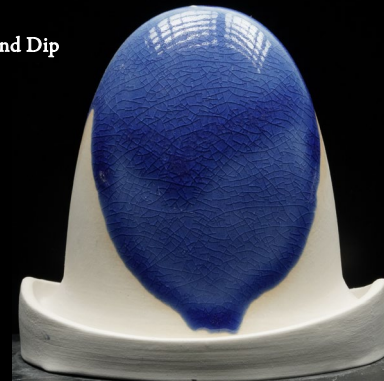


070522-2



070522-3

1-3 Second Dip



070522-4



070522-5



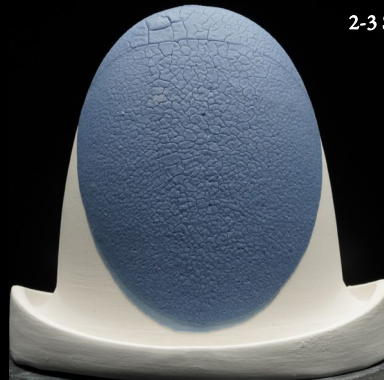
070522-6



Original

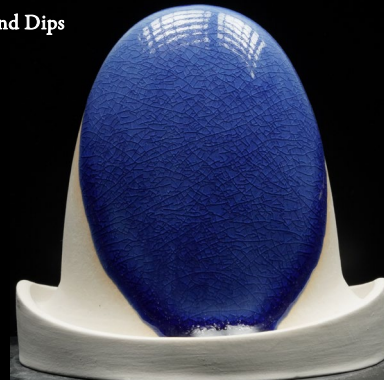


w/o Neph Sy



w/o Whiting

2-3 Second Dips



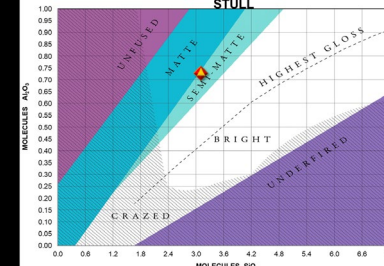
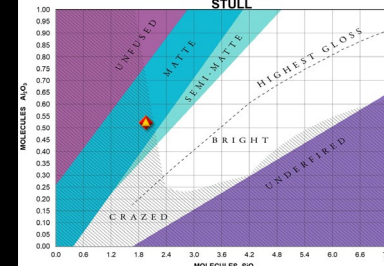
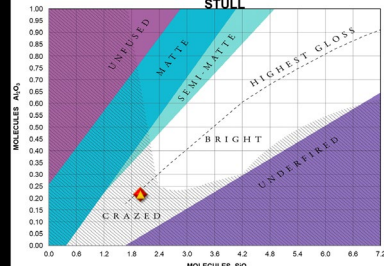
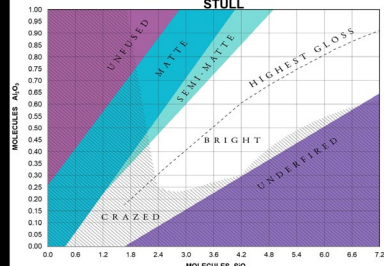
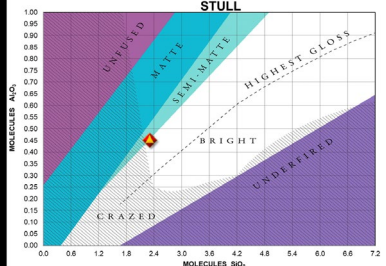
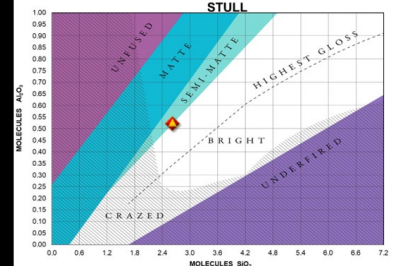
w/o Kaolin



w/o Flint

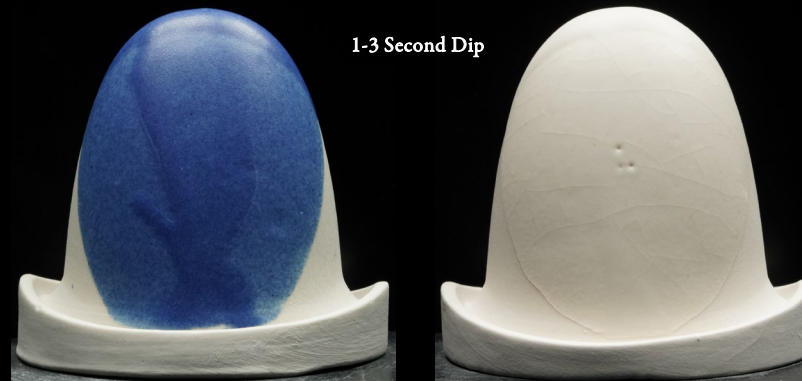


w/o Frit



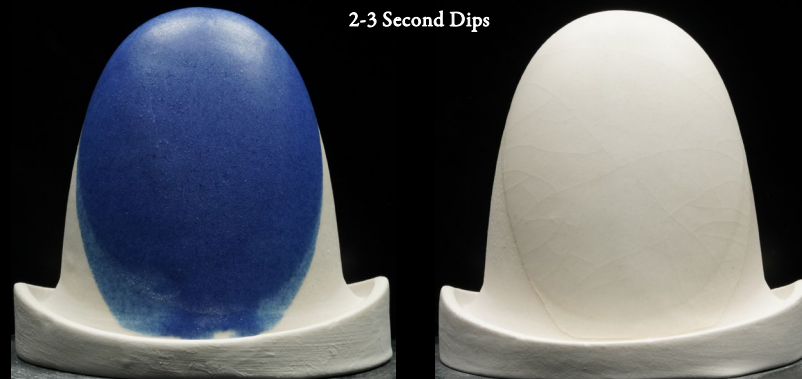
Ceramic
Materials
Workshop

Lab 1-Oxidation



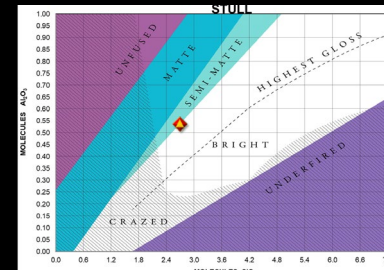
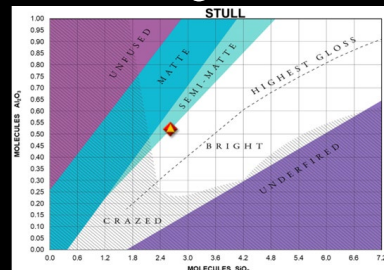
070822-1

070822-51



Original

w/o Colorant



Ceramic
Materials
Workshop

Lab 1-Reduction



070522-1

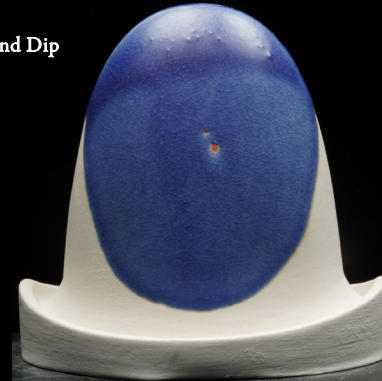


070522-2



070522-3

1-3 Second Dip



070522-4



070522-5



070522-6



Original



w/o Neph Sy



w/o Whiting

2-3 Second Dips



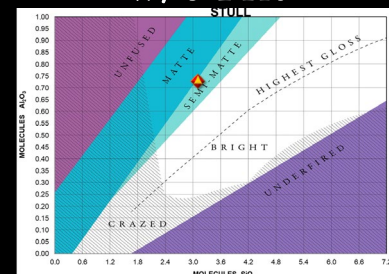
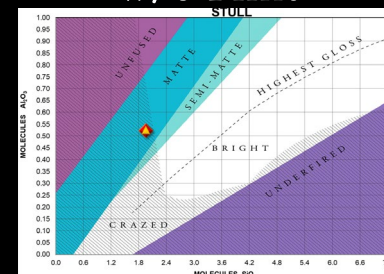
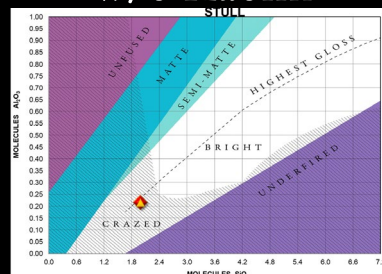
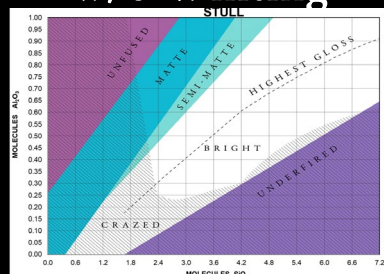
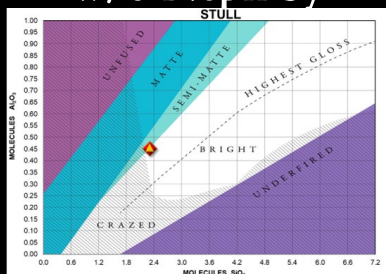
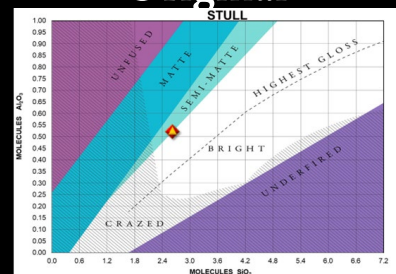
w/o Kaolin



w/o Flint

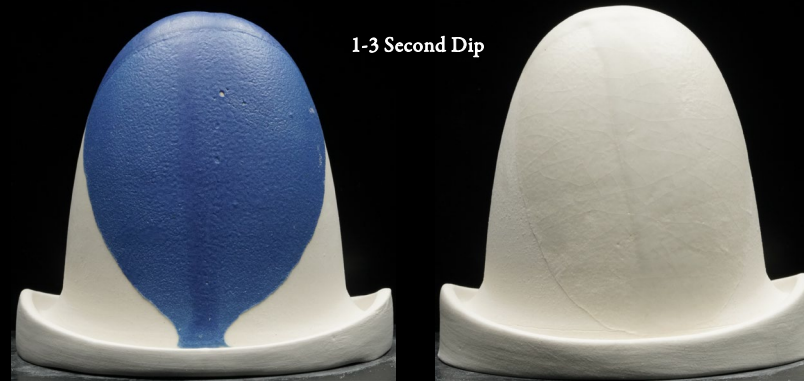


w/o Frit



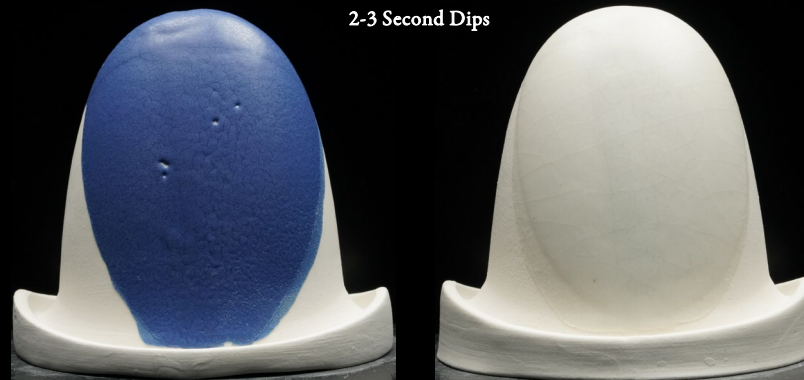
Ceramic
Materials
Workshop

Lab 1-Reduction



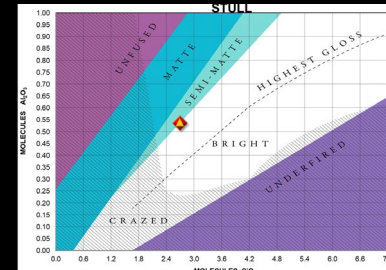
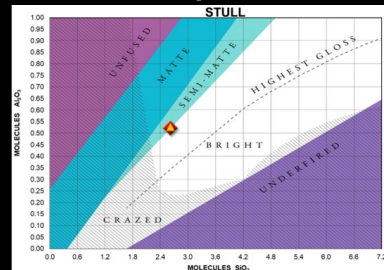
070522-1

070522-51



Original

w/o Colorant



Ceramic
Materials
Workshop

ceramicmaterialsworkshop.com

KB Matte

Original

070522-1

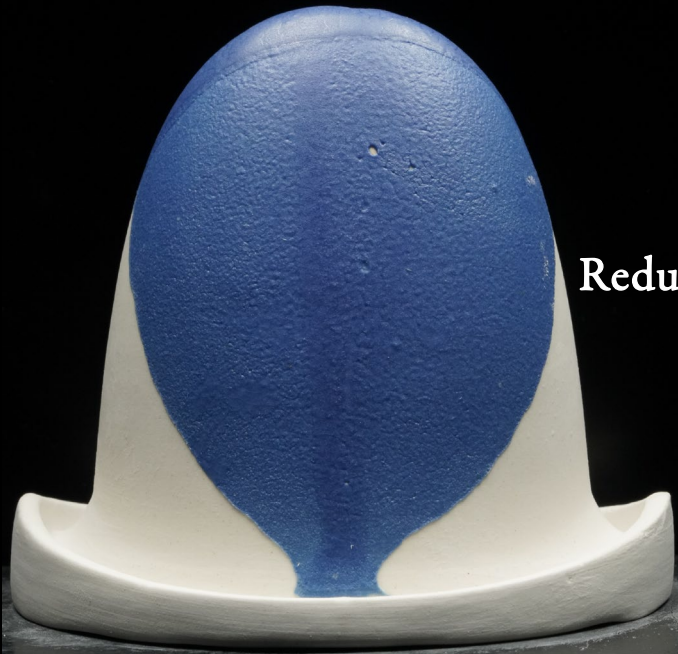
Neph Sy	19.71
Whiting	16.76
EPK	34.85
Flint	12.91
3134	15.77
Cobalt Carbonate	1.01
Water	100



1-3 Second Dip



2-3 Second Dips



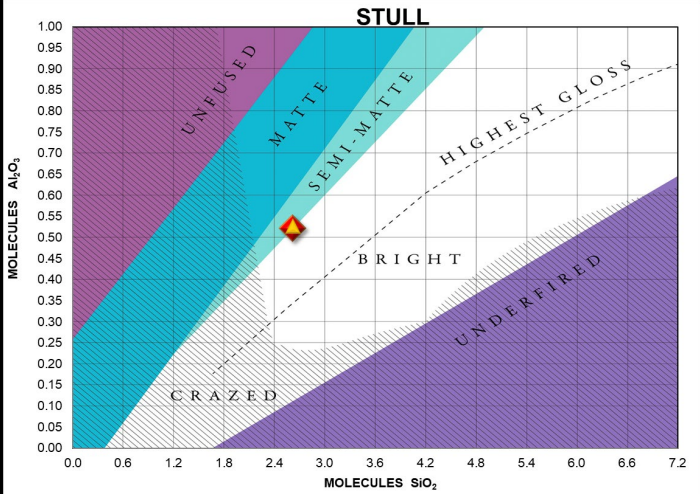
Reduction



Oxidation

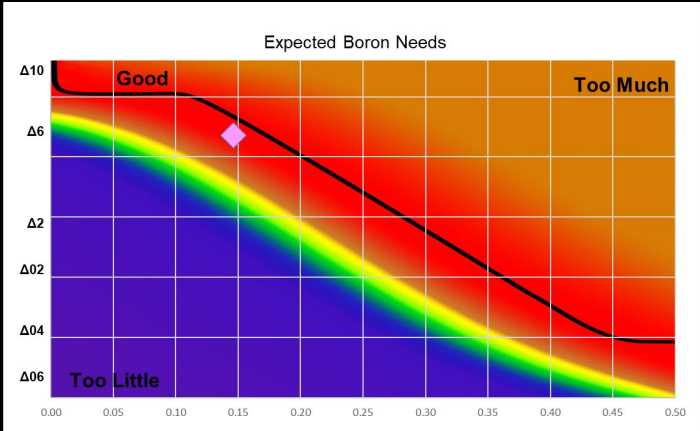
UMF

SiO ₂ :Al ₂ O ₃ Ratio 4.97 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.69	Collective "Al ₂ O ₃ " 0.54	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.01	CaO 0.75
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.54	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	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 4.97 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.62	Collective "Al ₂ O ₃ " 0.53	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.00	CaO 0.73
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.52	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.03

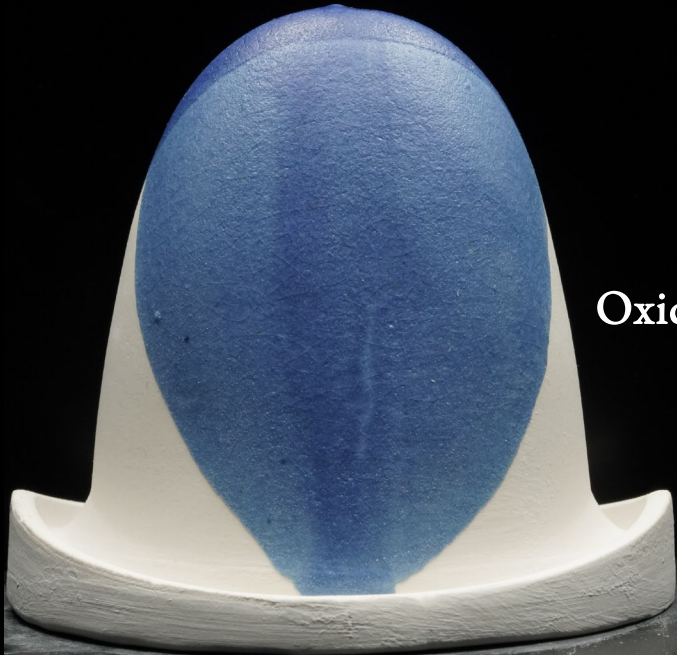


Ceramic
Materials
Workshop

KB Matte

w/o Alkali Metal
070522-2

Neph Sy	
Whiting	20.87
EPK	43.41
Flint	16.08
3134	19.64
Cobalt Carbonate	1.01
Water	110



1-3 Second Dip



2-3 Second Dips

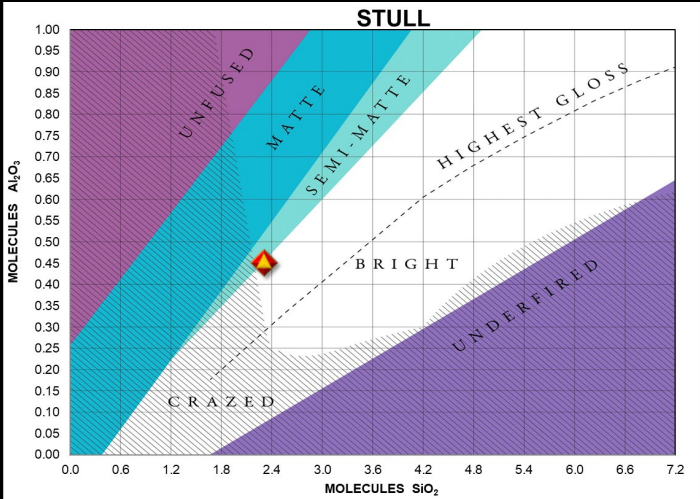


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.05 : 1		Alkali Metals 0.11		Alkaline Earths 0.89	
SiO ₂ 2.37	Collective "Al ₂ O ₃ " 0.47	Na ₂ O 0.10	K ₂ O 0.01	MgO 0.01	CaO 0.87
B ₂ O ₃ 0.17	Al ₂ O ₃ 0.46	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	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 5.05 : 1		Alkali Metals 0.10		Alkaline Earths 0.90	
SiO ₂ 2.31	Collective "Al ₂ O ₃ " 0.46	Na ₂ O 0.10	K ₂ O 0.01	MgO 0.01	CaO 0.85
B ₂ O ₃ 0.17	Al ₂ O ₃ 0.45	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.03



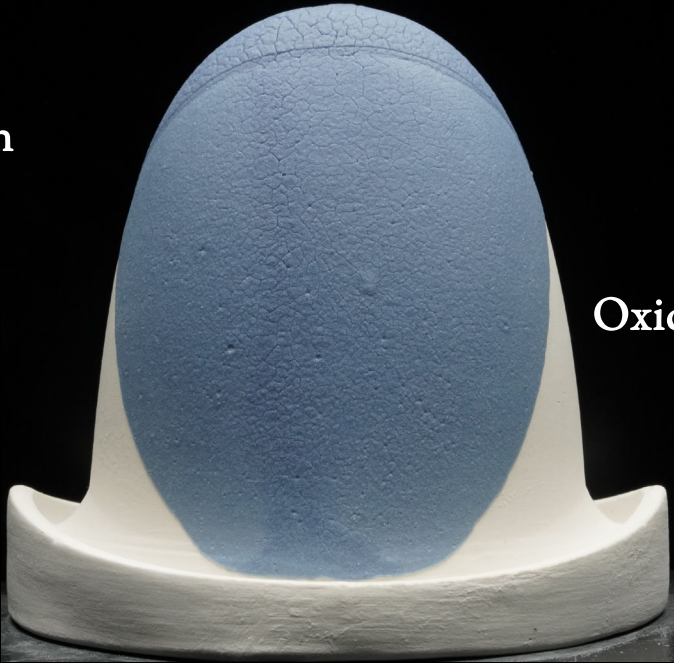
Ceramic
Materials
Workshop

KB Matte

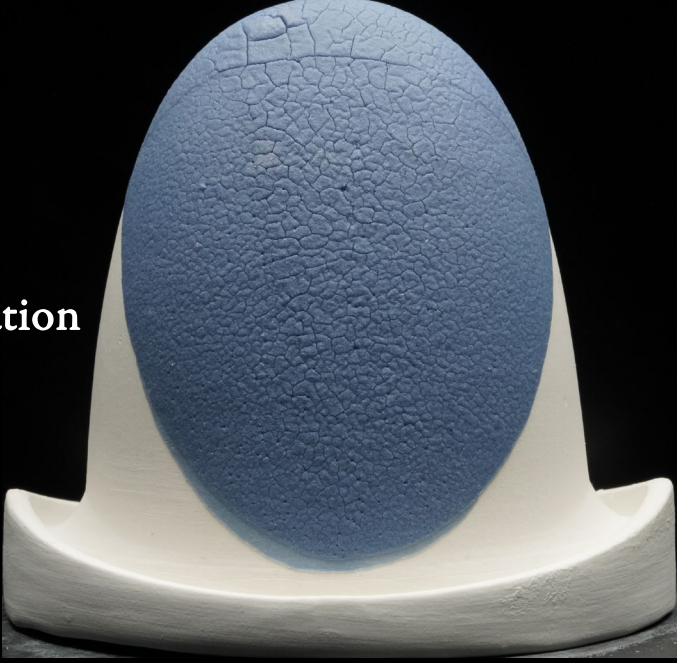
w/o Alkaline Earth

070522-3

Neph Sy	23.68
Whiting	
EPK	41.86
Flint	15.51
3134	18.94
Cobalt Carbonate	1.01
Water	110



1-3 Second Dip



2-3 Second Dips

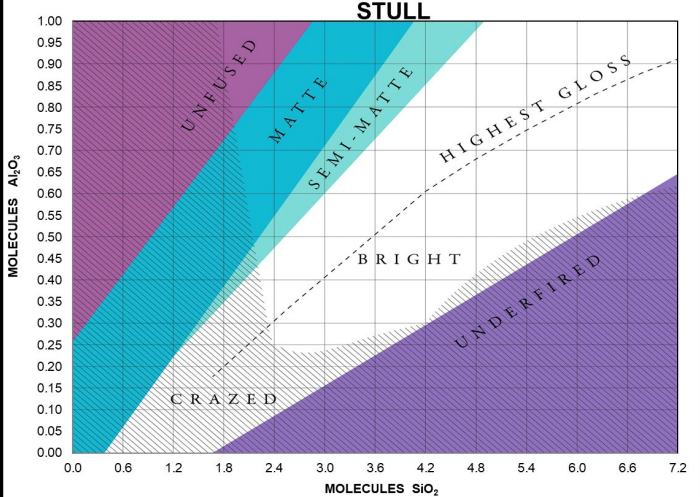


Reduction



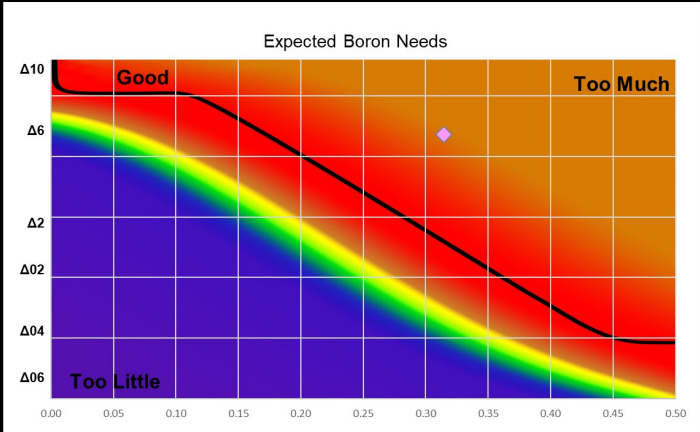
UMF

SiO ₂ :Al ₂ O ₃ Ratio 4.97 : 1		Alkali Metals 0.50		Alkaline Earths 0.50	
SiO ₂ 5.93	Collective "Al ₂ O ₃ " 1.19	Na ₂ O 0.42	K ₂ O 0.08	MgO 0.01	CaO 0.45
B ₂ O ₃ 0.33	Al ₂ O ₃ 1.18	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.03
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 4.97 : 1		Alkali Metals 0.48		Alkaline Earths 0.52	
SiO ₂ 5.64	Collective "Al ₂ O ₃ " 1.13	Na ₂ O 0.40	K ₂ O 0.07	MgO 0.01	CaO 0.43
B ₂ O ₃ 0.31	Al ₂ O ₃ 1.12	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.03
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.05



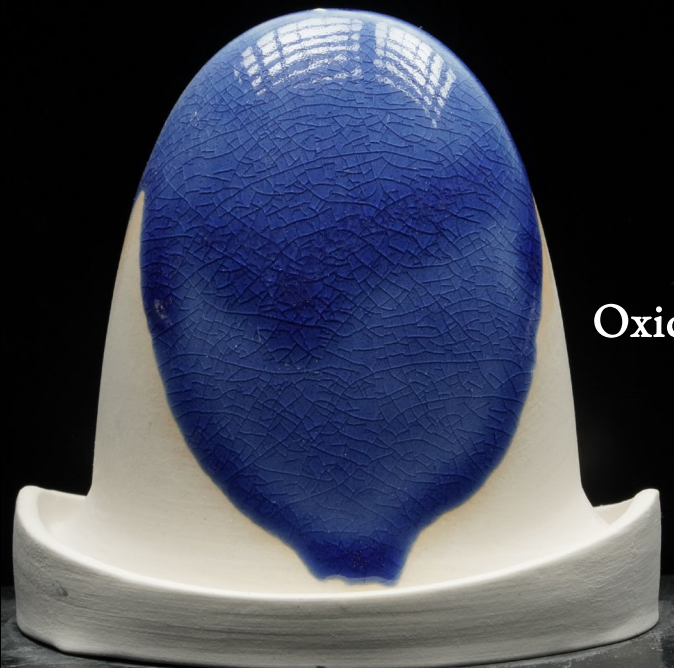
Ceramic
Materials
Workshop

KB Matte

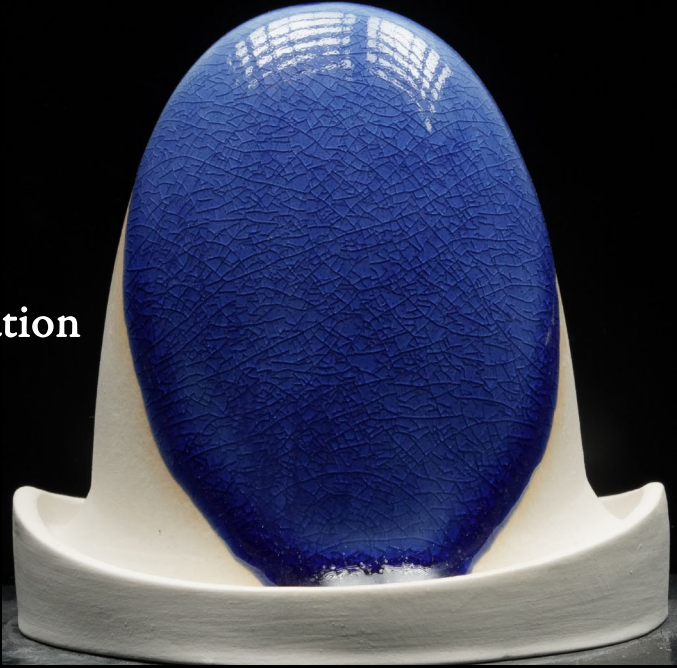
w/o Kaolin

070522-4

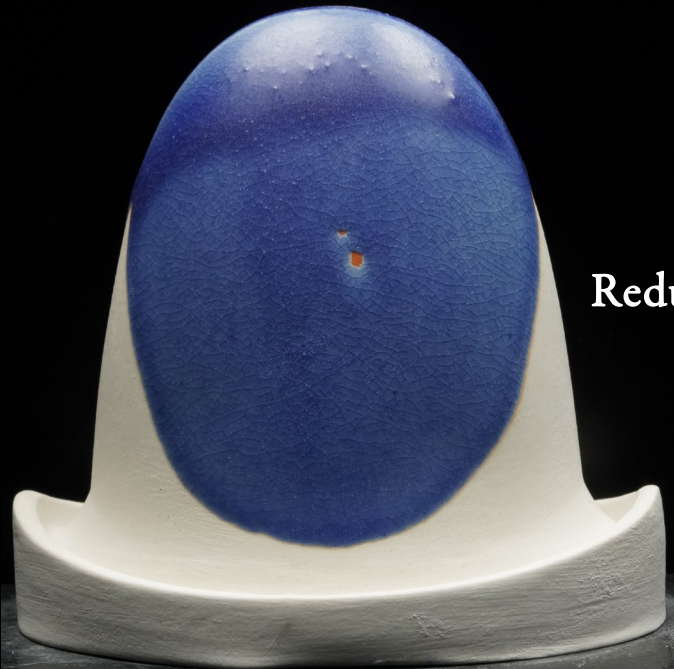
Neph Sy	29.35
Whiting	24.94
EPK	
Flint	19.23
3134	23.48
Bentonite	3.01
Cobalt Carbonate	1.01
Water	110



1-3 Second Dip



2-3 Second Dips



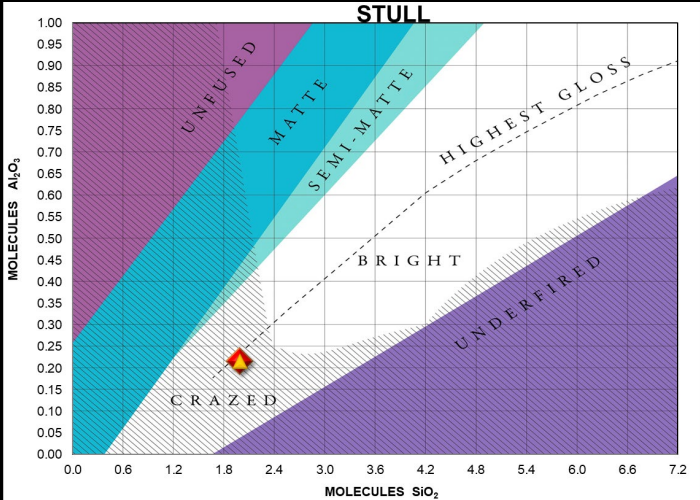
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.20 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.04	Collective "Al ₂ O ₃ " 0.22	Na ₂ O 0.16	K ₂ O 0.04	MgO 0.01	CaO 0.79
B ₂ O ₃	Al ₂ O ₃ 0.22	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 9.20 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.99	Collective "Al ₂ O ₃ " 0.22	Na ₂ O 0.15	K ₂ O 0.04	MgO 0.01	CaO 0.77
B ₂ O ₃	Al ₂ O ₃ 0.22	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 0.03



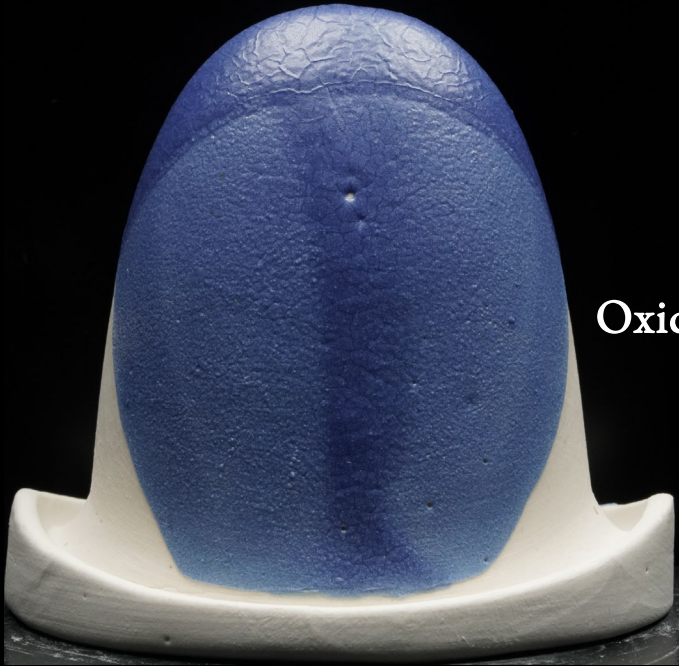
Ceramic
Materials
Workshop

KB Matte

w/o Silica

070522-5

Neph Sy	22.63
Whiting	19.24
EPK	40.02
Flint	
3134	18.11
Cobalt Carbonate	1.01
Water	100



1-3 Second Dip



2-3 Second Dips

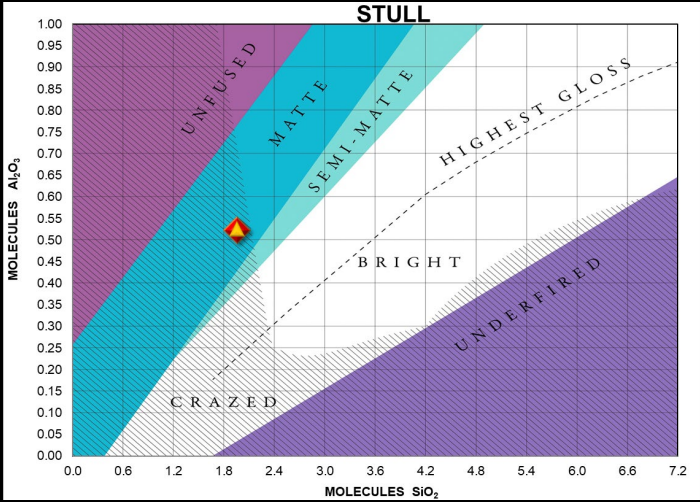


Reduction

Oxidation

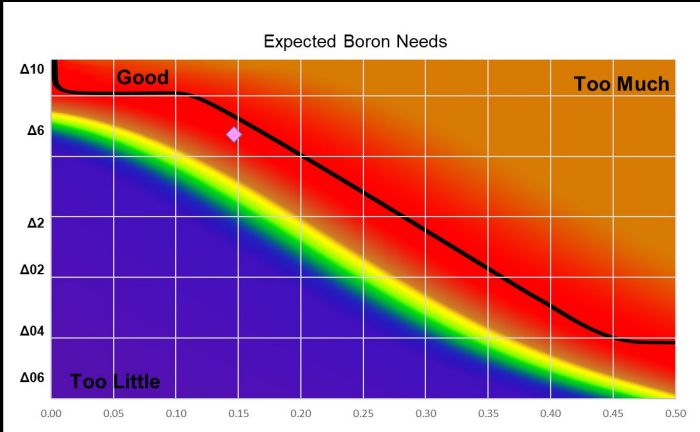
UMF

SiO ₂ :Al ₂ O ₃ Ratio 3.71 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.00	Collective "Al ₂ O ₃ " 0.54	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.00	CaO 0.75
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.53	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	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 3.71 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 1.96	Collective "Al ₂ O ₃ " 0.53	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.00	CaO 0.73
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.52	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



Ceramic
Materials
Workshop

KB Matte

w/o Frit

070522-6

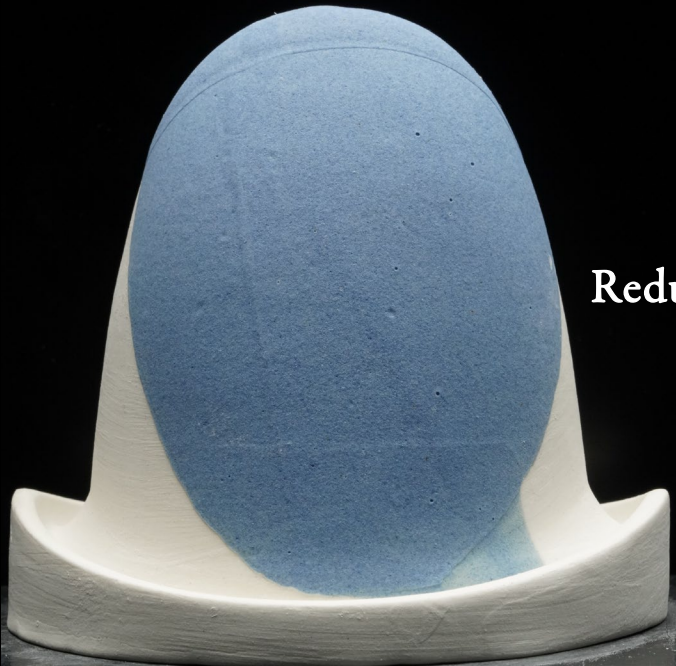
Neph Sy	23.40
Whiting	19.89
EPK	41.38
Flint	15.33
3134	
Cobalt Carbonate	1.01
Water	140



1-3 Second Dip



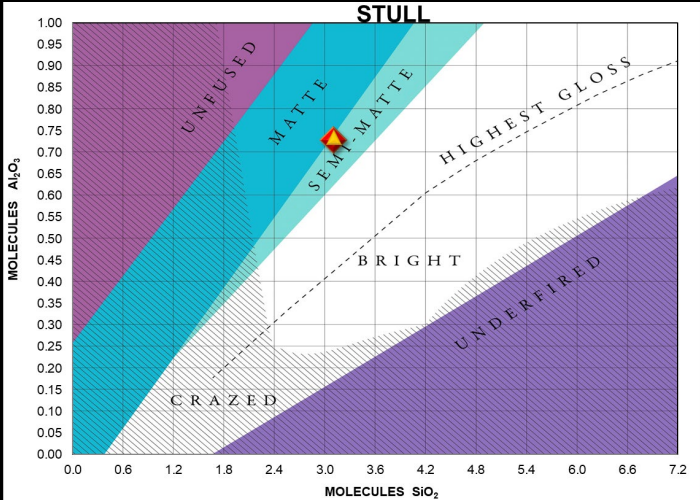
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 4.22 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 3.21	Collective "Al ₂ O ₃ " 0.76	Na ₂ O 0.15	K ₂ O 0.05	MgO 0.01	CaO 0.77
B ₂ O ₃	Al ₂ O ₃ 0.75	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



SiO ₂ :Al ₂ O ₃ Ratio 4.22 : 1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 3.11	Collective "Al ₂ O ₃ " 0.74	Na ₂ O 0.14	K ₂ O 0.05	MgO 0.01	CaO 0.75
B ₂ O ₃	Al ₂ O ₃ 0.73	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.03



Ceramic
Materials
Workshop

KB Matte

w/o Colorant

070522-51

Neph Sy	19.71
Whiting	16.75
EPK	34.85
Flint	12.91
3134	15.77
Cobalt Carbonate	
Water	130



1-3 Second Dip



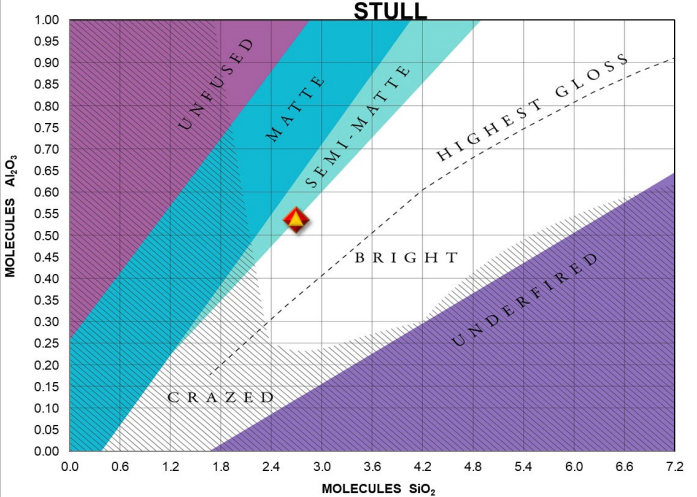
2-3 Second Dips



Reduction

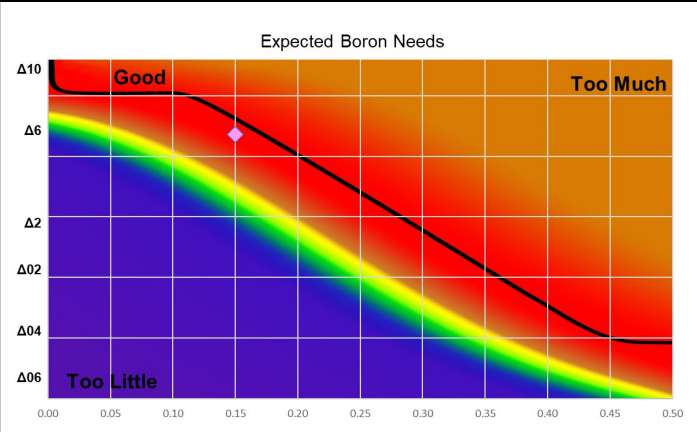
UMF

SiO ₂ :Al ₂ O ₃ Ratio 4.97 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.69	Collective "Al ₂ O ₃ " 0.54	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.01	CaO 0.75
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.54	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	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 4.97 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.69	Collective "Al ₂ O ₃ " 0.54	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.01	CaO 0.75
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TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop