

Katz Burke Matte- $\Delta 6$

Lab 3-Sili-Closeness

KB Matte

Original

070522-1

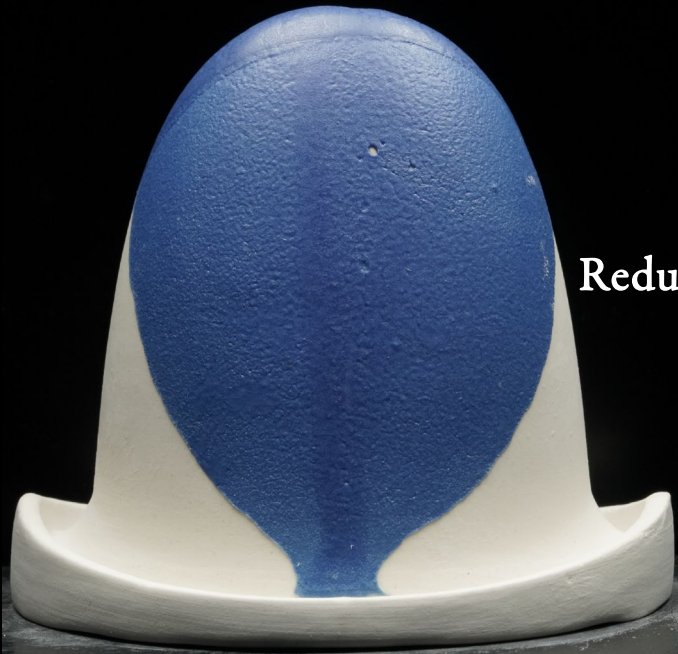
Neph Sy	19.71
Whiting	16.76
EPK	34.85
Flint	12.91
3134	15.77
Cobalt Carbonate	1.01
Water	100



1-3 Second Dip



2-3 Second Dips



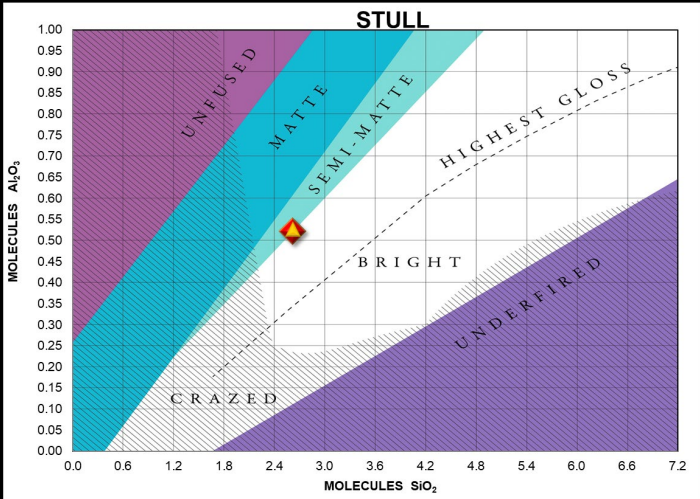
Reduction



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

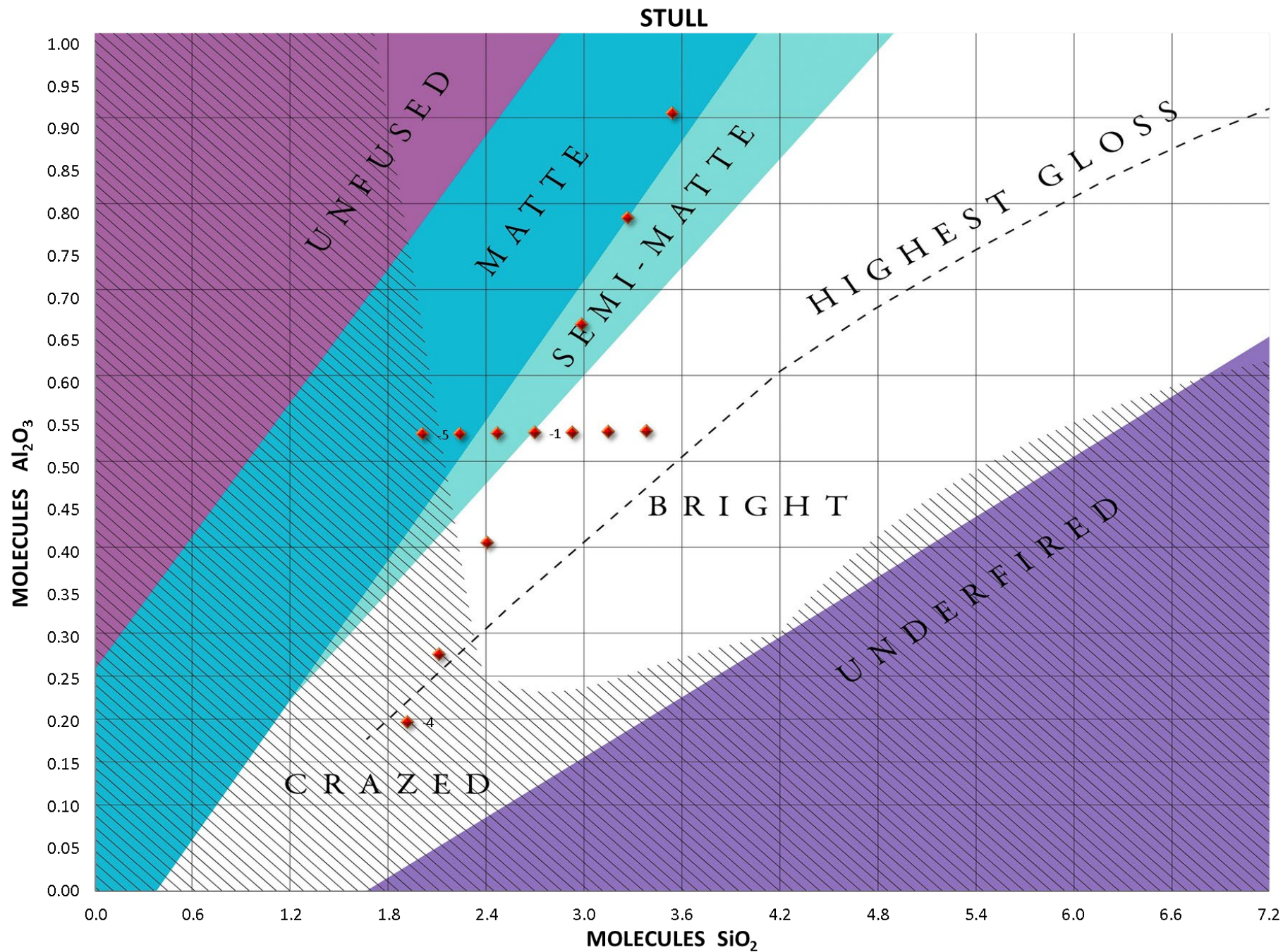


Ceramic
Materials
Workshop

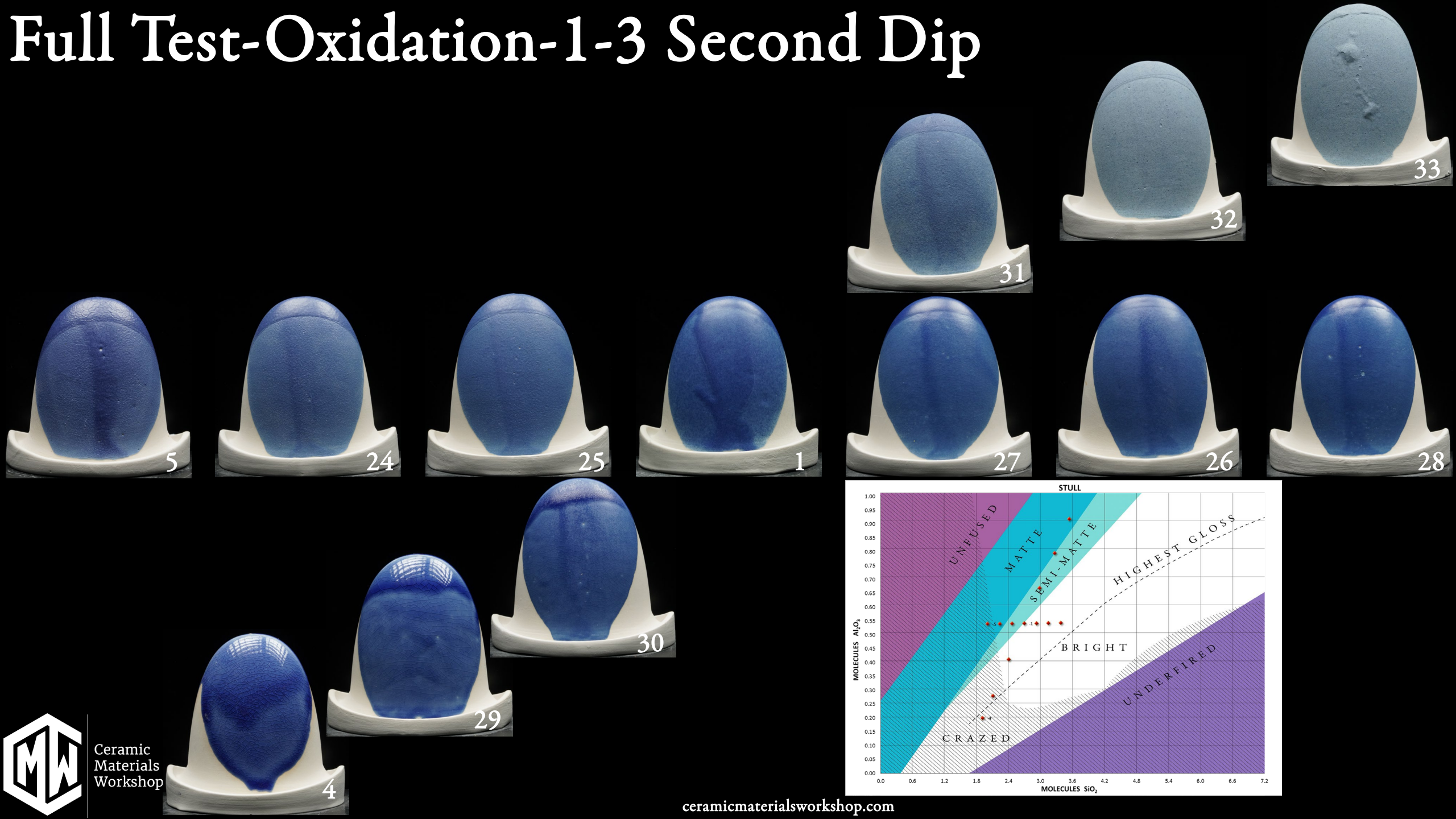
UMF



Ceramic
Materials
Workshop



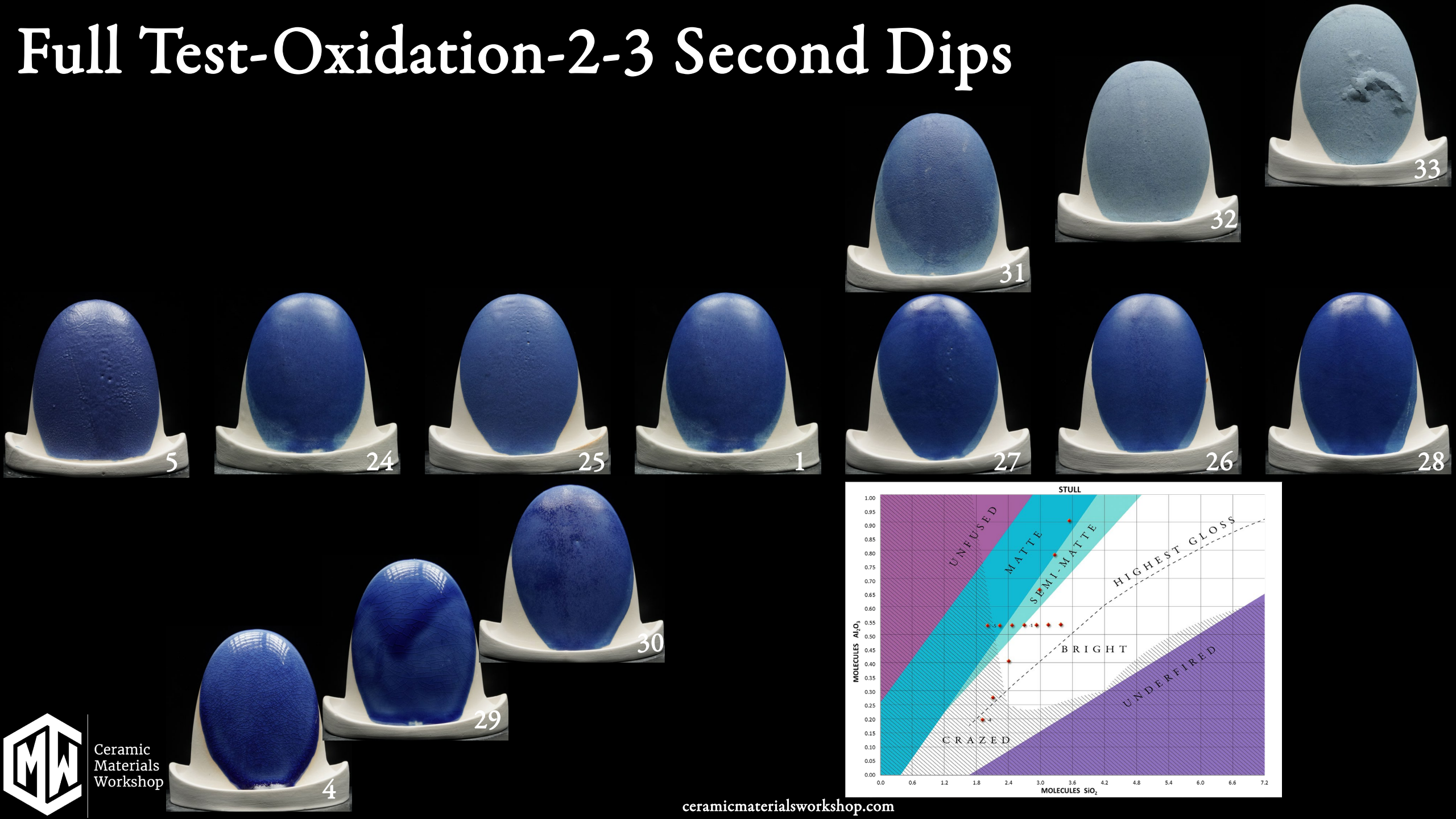
Full Test-Oxidation-1-3 Second Dip



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Full Test-Oxidation-2-3 Second Dips



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Materials
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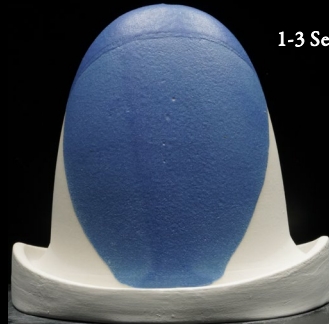
Silica Variations-Oxidation



070522-5



070522-24



070522-25



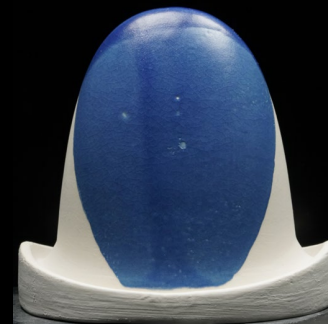
070522-1



070522-27



070522-26

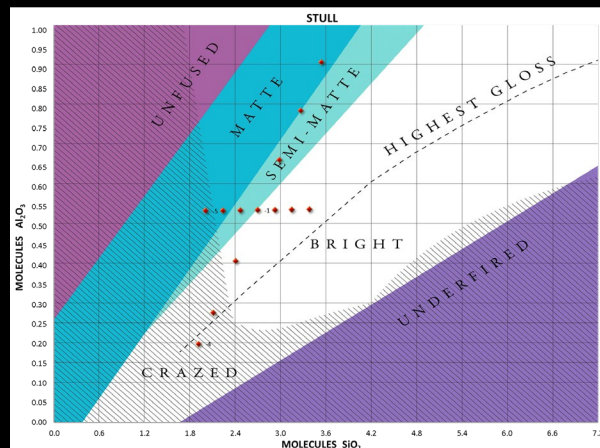


070522-28

1-3 Second Dip



2-3 Second Dips



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Alumina Variations-Oxidation



070522-4

070522-29

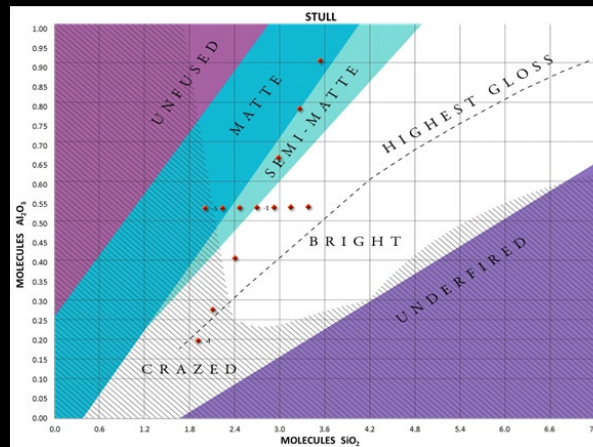
070522-30

070522-1

070522-31

070522-32

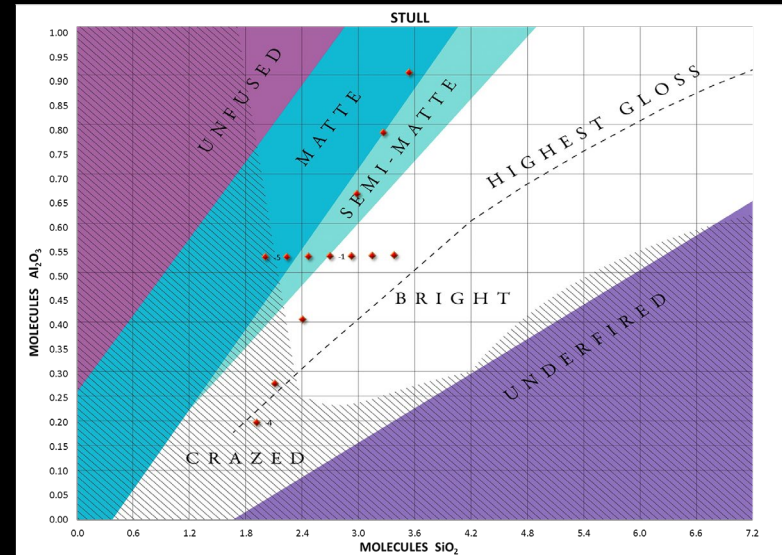
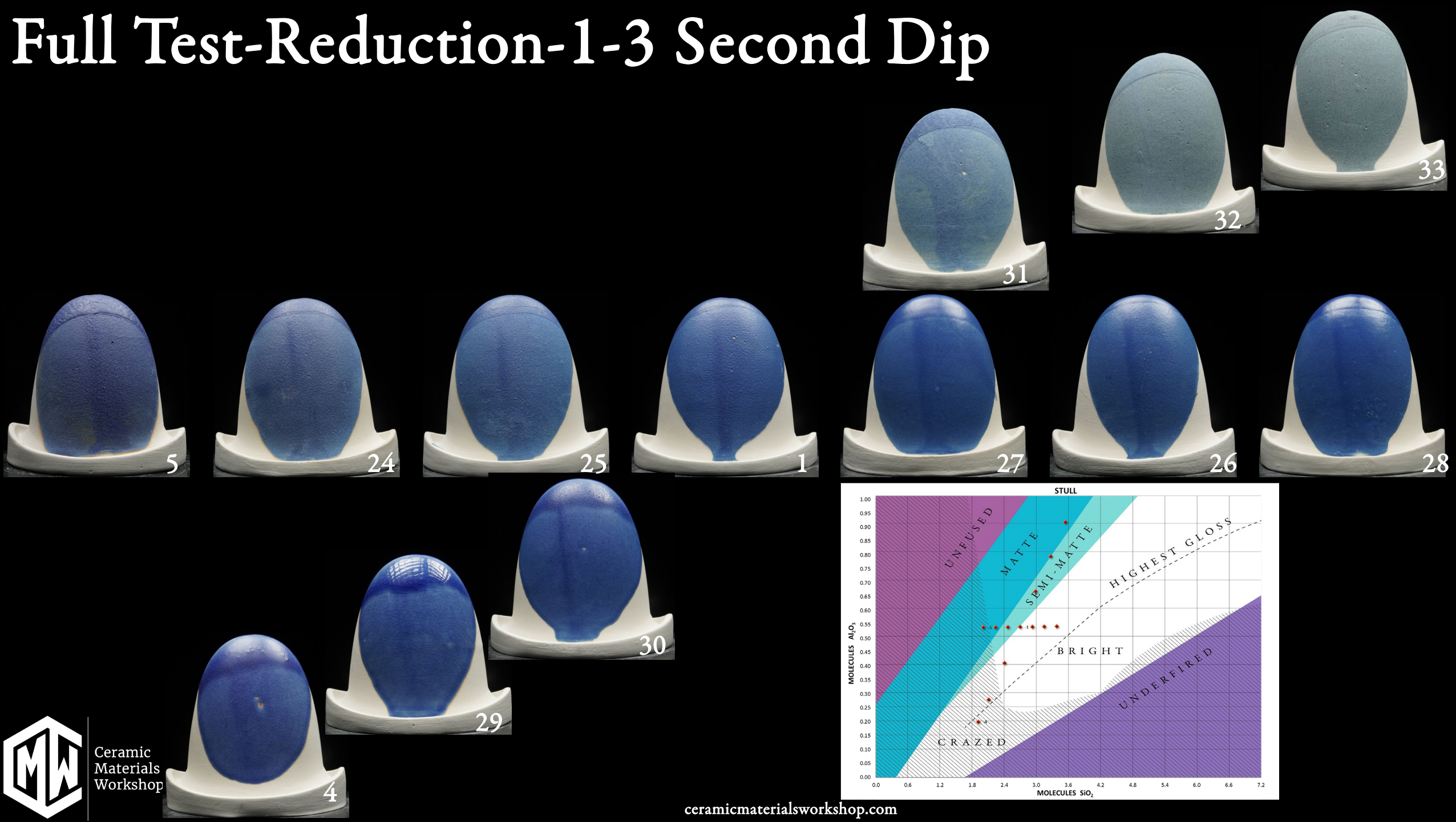
070522-33



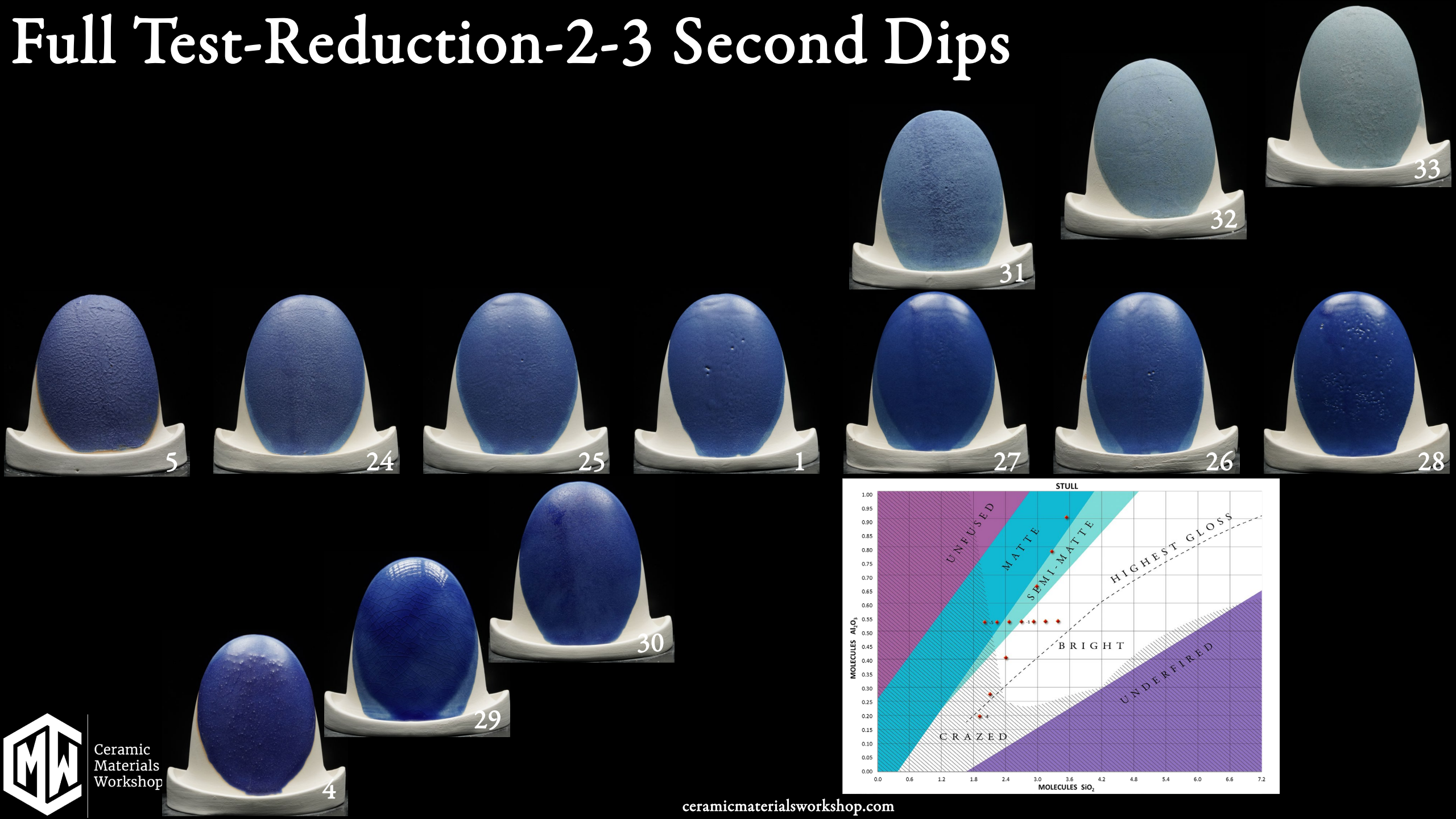
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Full Test-Reduction-1-3 Second Dip



Full Test-Reduction-2-3 Second Dips



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Silica Variations-Reduction

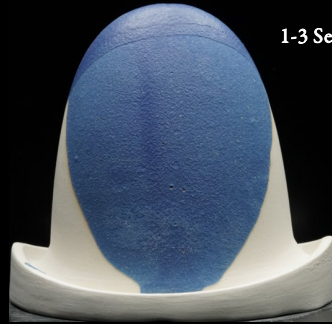
1-3 Second Dip



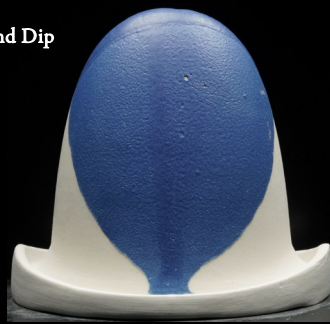
070522-5



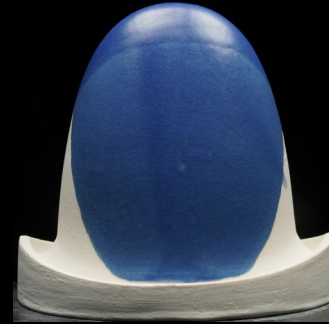
070522-24



070522-25



070522-1



070522-27

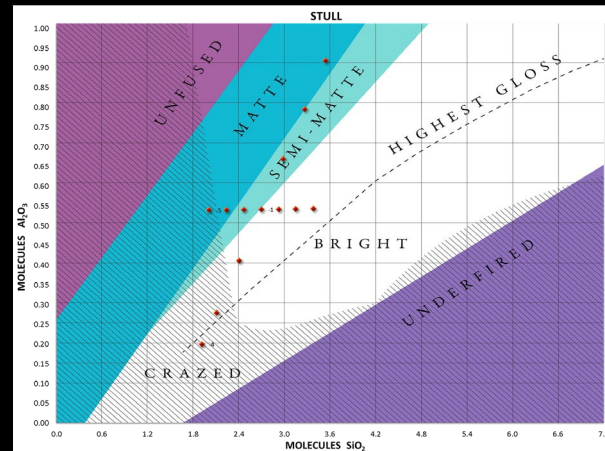
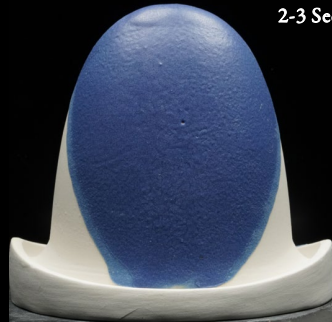


070522-26



070522-28

2-3 Second Dips



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Alumina Variations-Reduction

1-3 Second Dip

070522-4

070522-29

070522-30

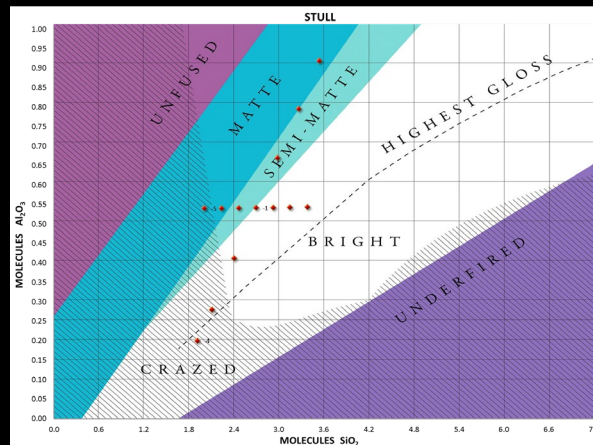
070522-1

070522-31

070522-32

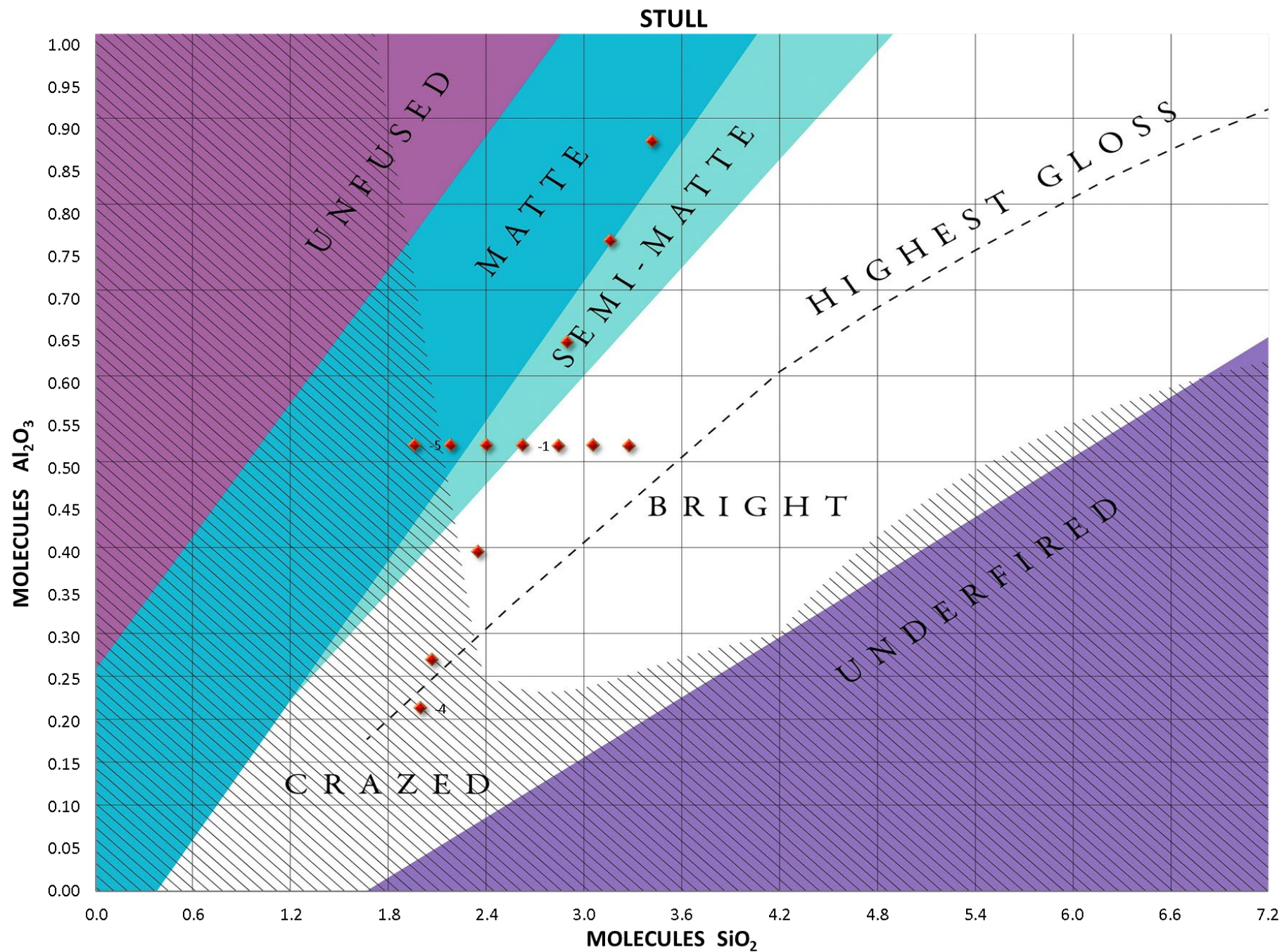
070522-33

2-3 Second Dips



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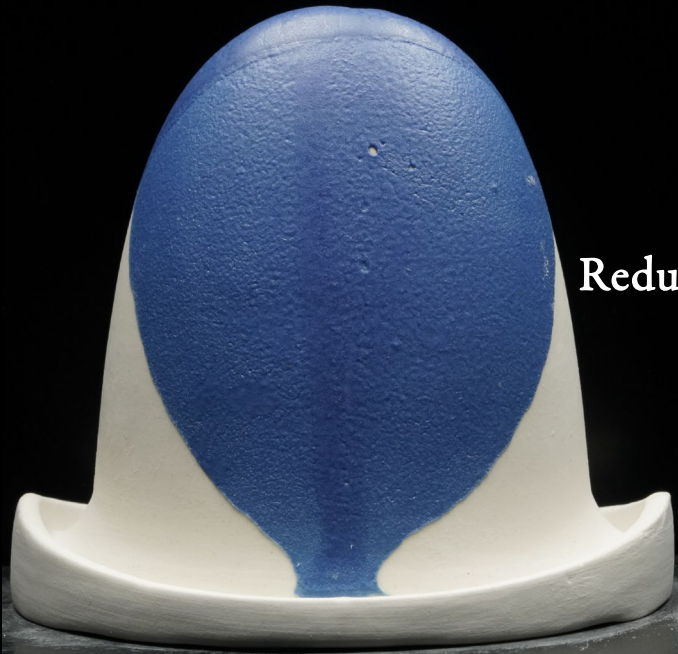
KB Matte

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



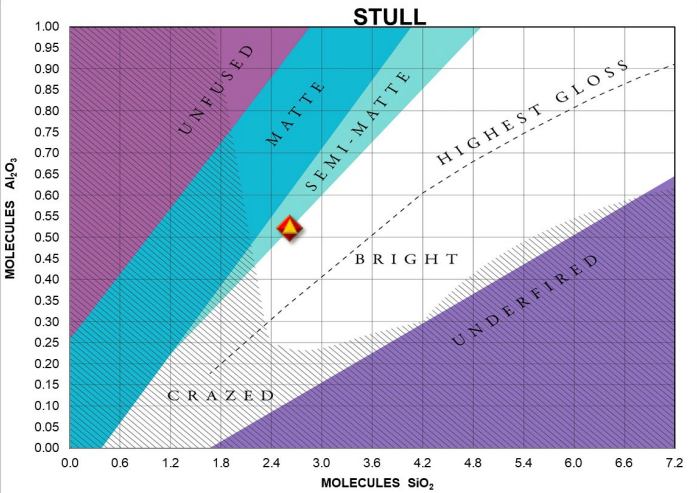
Oxidation



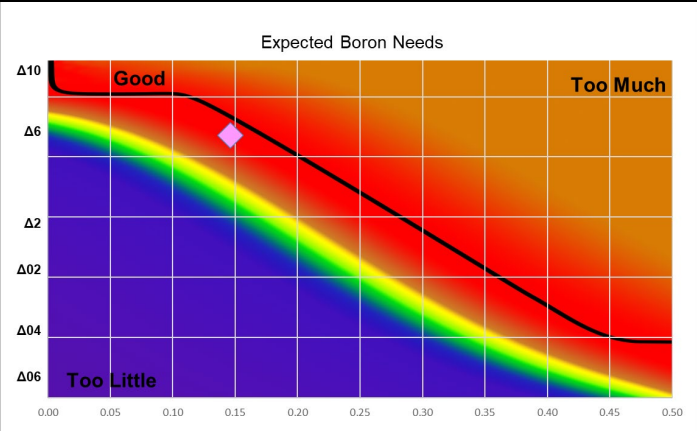
Reduction



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



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



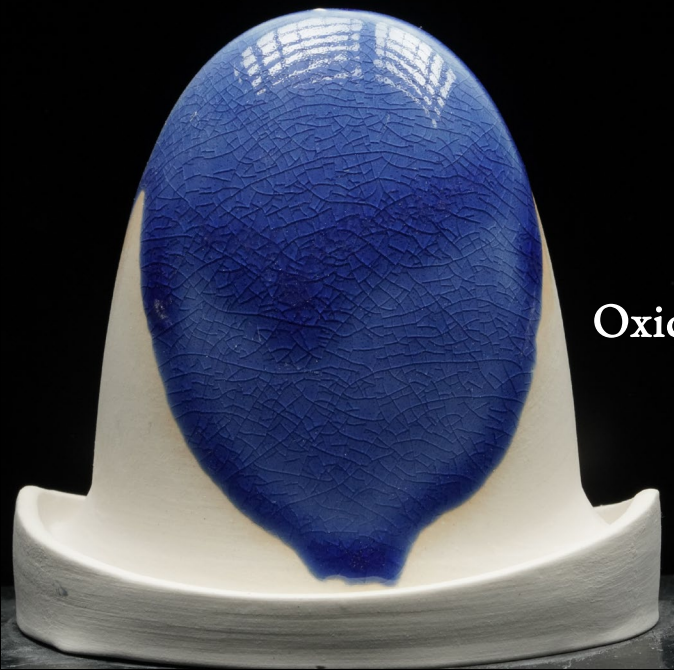
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KB Matte

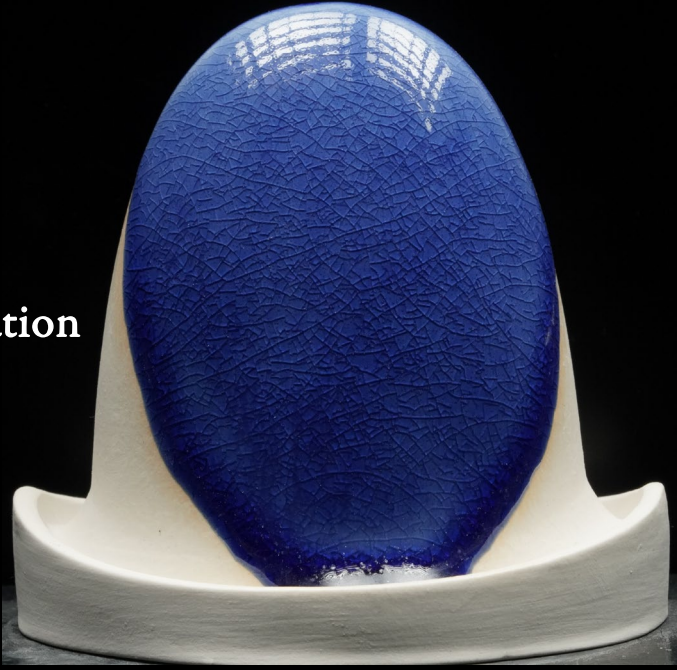
w/o Kaolin

070522-4

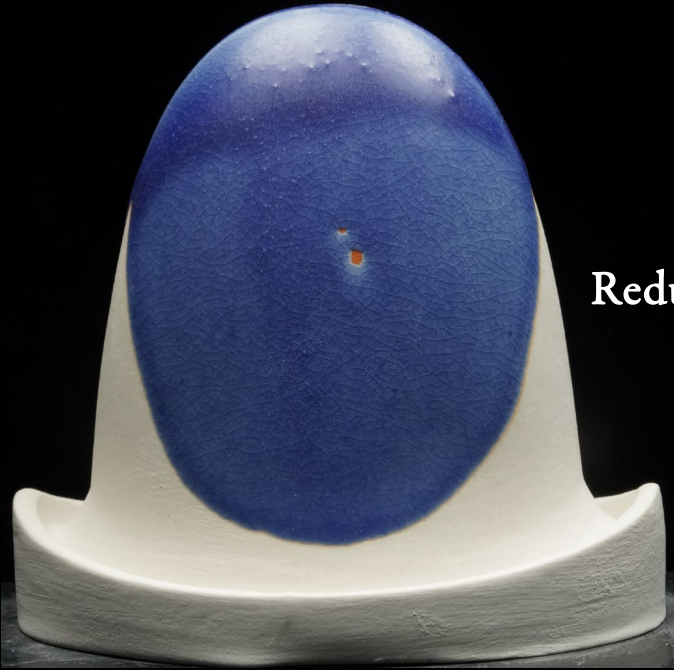
Neph Sy	29.35
Whiting	24.94
EPK	
Flint	19.23
3134 (Frit)	23.48
Bentonite	3.01
Cobalt Carbonate	1.01
Water	110



1-3 Second Dip



2-3 Second Dips



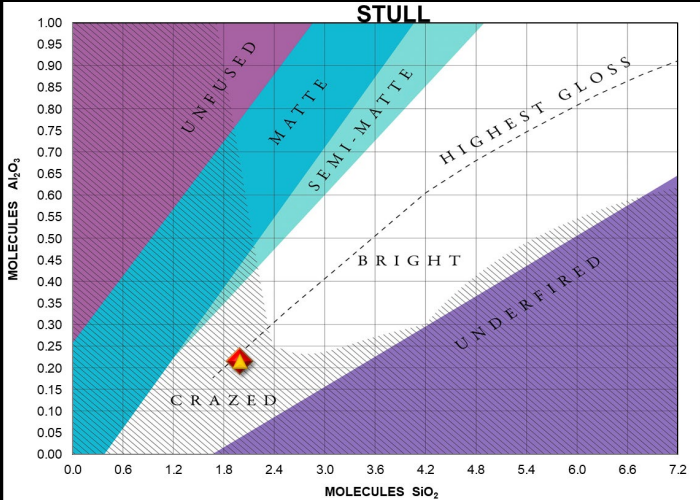
Reduction



Oxidation

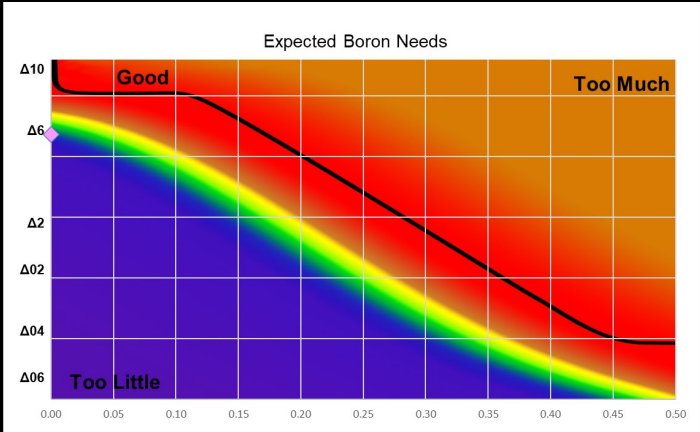
UMF

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



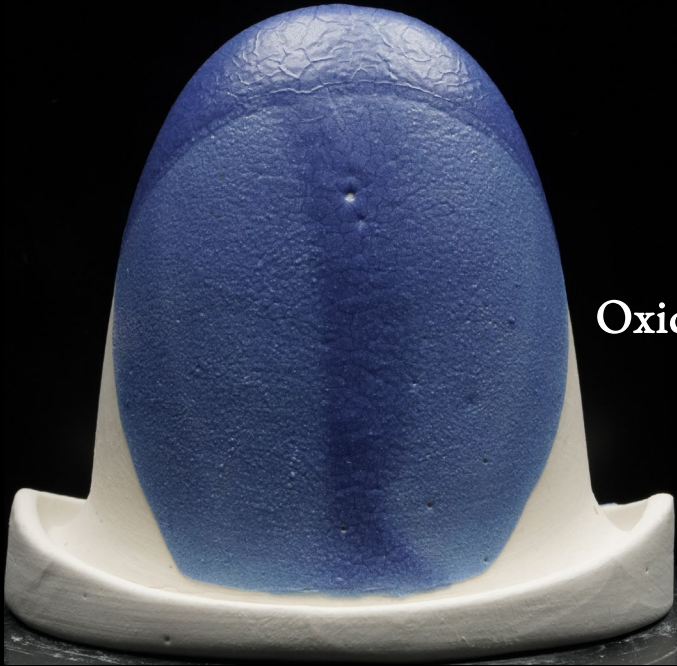
Ceramic
Materials
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KB Matte

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

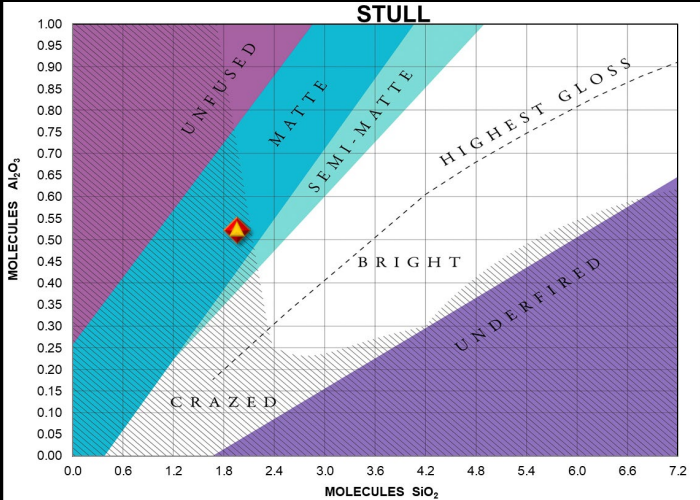


Reduction

Oxidation

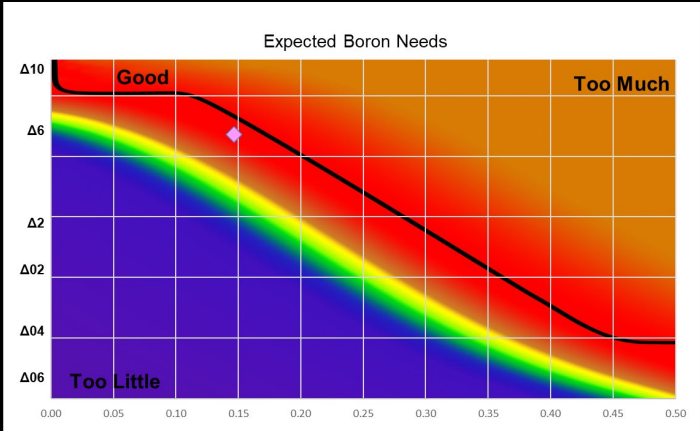
UMF

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



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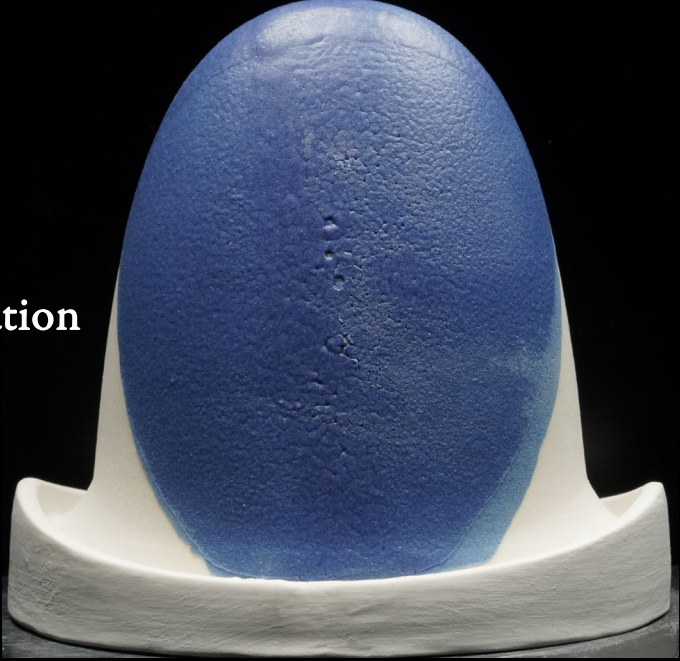
KB Matte

Mapping
Silica 2
070522-24

Neph Sy	21.57
Whiting	18.33
EPK	38.14
Flint	4.71
3134	17.26
Cobalt Carbonate	1.01
Water	100



1-3 Second Dip



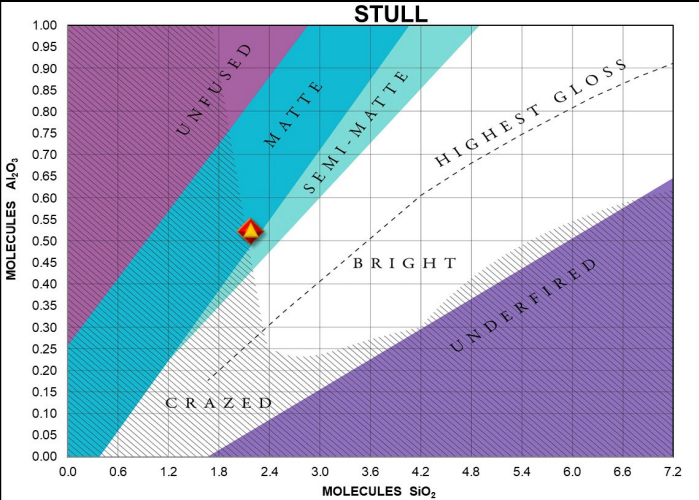
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 4.13 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.23	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



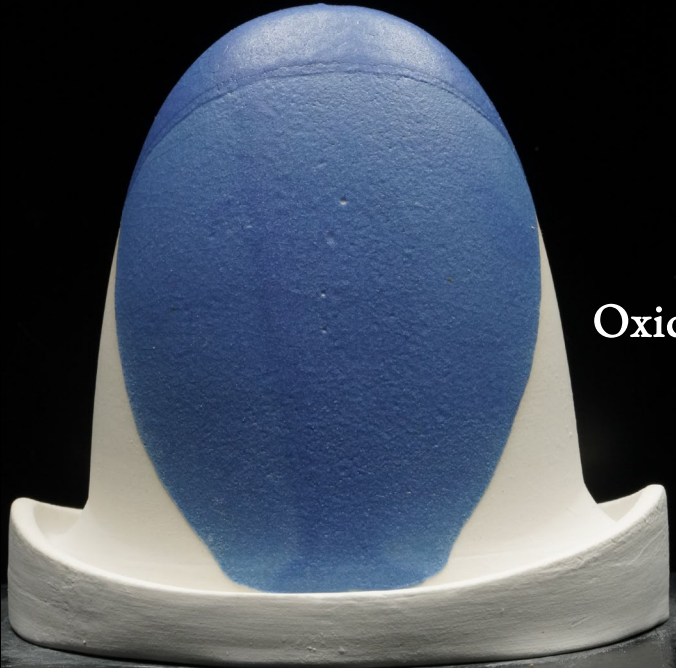
SiO ₂ :Al ₂ O ₃ Ratio 4.13 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.18	Collective "Al ₂ O ₃ " 0.53	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.00	CaO 0.73
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.52	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



KB Matte

Mapping
Silica 3
070522-25

Neph Sy	20.60
Whiting	17.51
EPK	36.42
Flint	8.99
3134	16.48
Cobalt Carbonate	1.01
Water	100



1-3 Second Dip



2-3 Second Dips



1-3 Second Dip



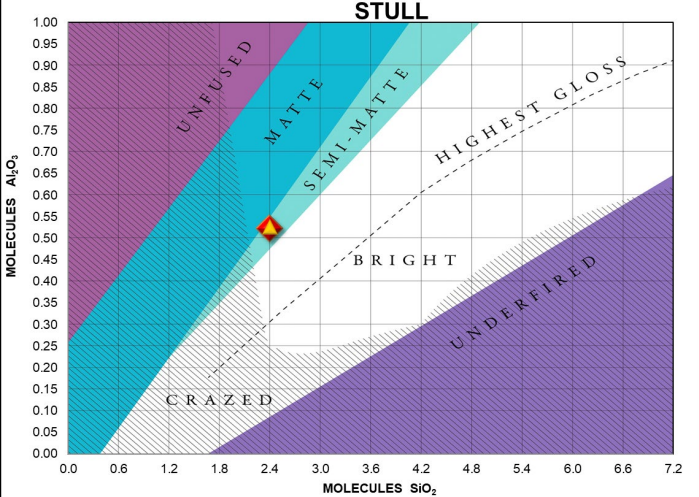
2-3 Second Dips

Oxidation

Reduction

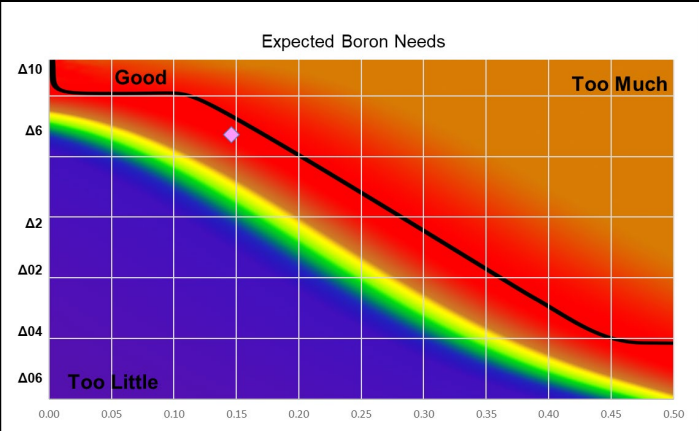
UMF

SiO ₂ :Al ₂ O ₃ Ratio 4.55 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.46	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 4.55 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.40	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

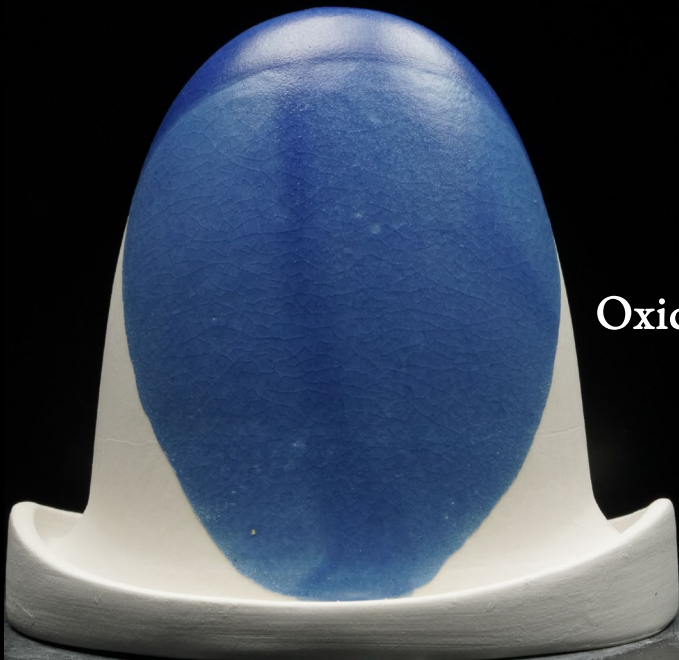


Ceramic
Materials
Workshop

KB Matte

Mapping
Silica 5
070522-27

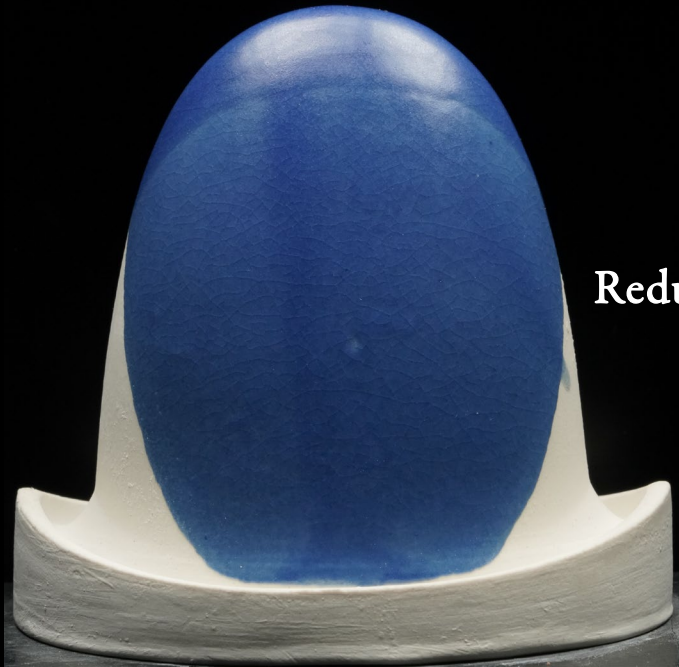
Neph Sy	21.73
Dolomite	18.09
EPK	5.28
Flint	26.51
3134	26.39
Bentonite	2.01
Copper Carbonate	0.50
Water	100



1-3 Second Dip



2-3 Second Dips

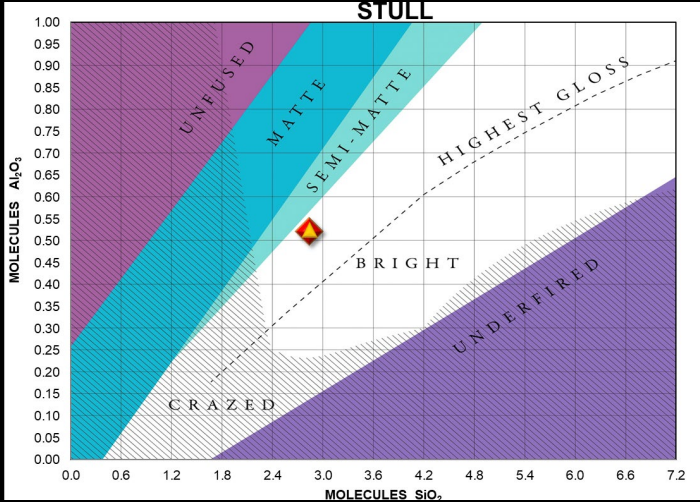


Reduction



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 5.39 :1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.92	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



SiO ₂ :Al ₂ O ₃ Ratio 5.39 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.84	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

Mapping
Silica 6
070522-26

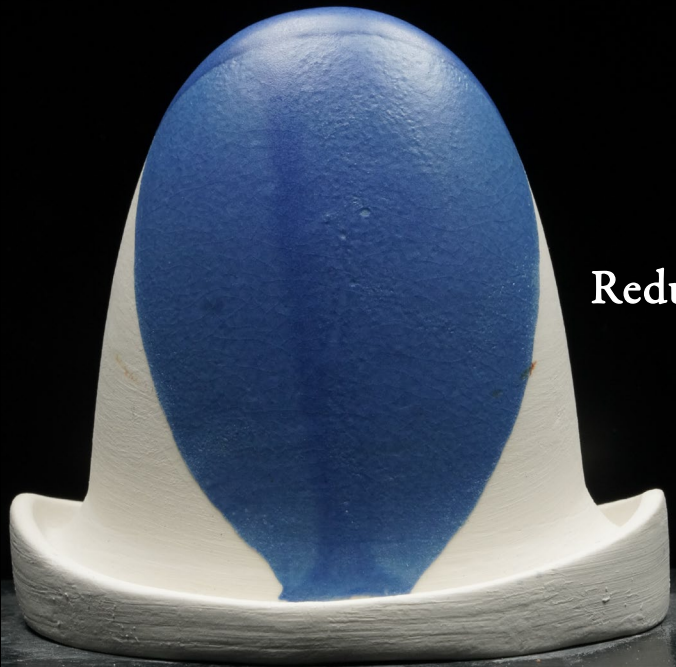
Neph Sy	18.90
Whiting	16.06
EPK	33.41
Flint	16.50
3134	15.12
Cobalt Carbonate	1.01
Water	100



1-3 Second Dip



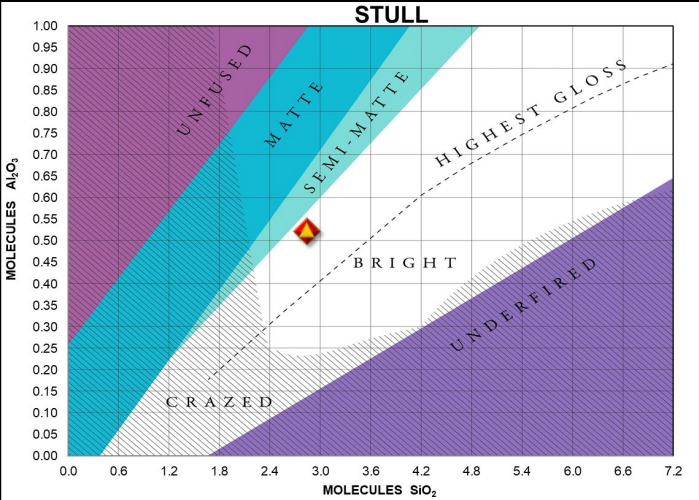
2-3 Second Dips



Reduction

UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.39 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.92	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 5.39 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.84	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

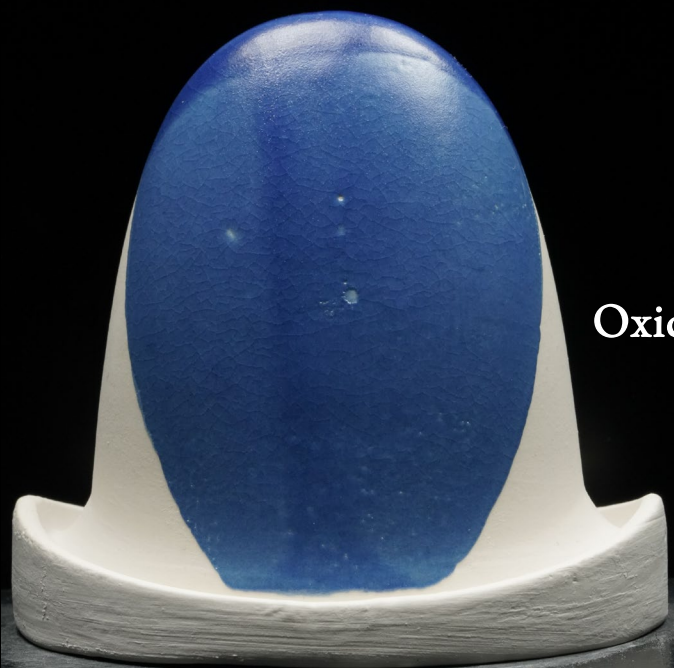


Ceramic
Materials
Workshop

KB Matte

Mapping
Silica 7
070522-28

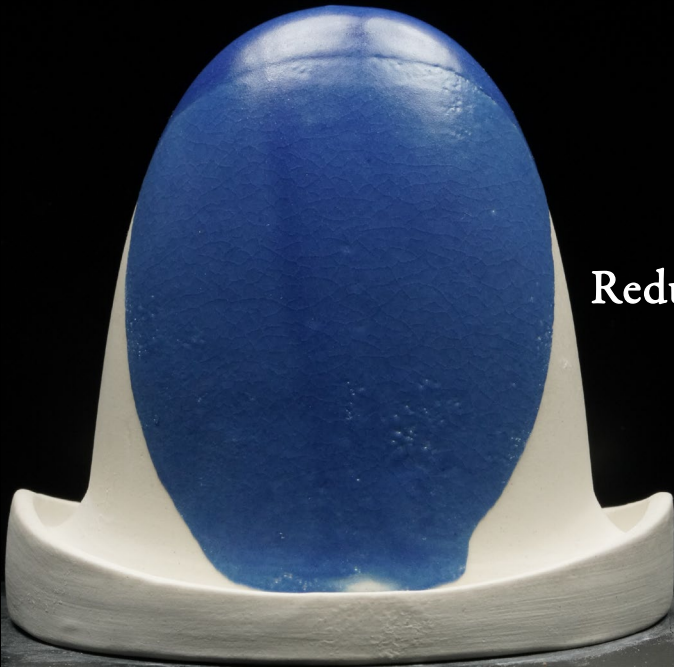
Neph Sy	17.47
Whiting	14.85
EPK	30.88
Flint	22.83
3134	13.97
Cobalt Carbonate	1.01
Water	100



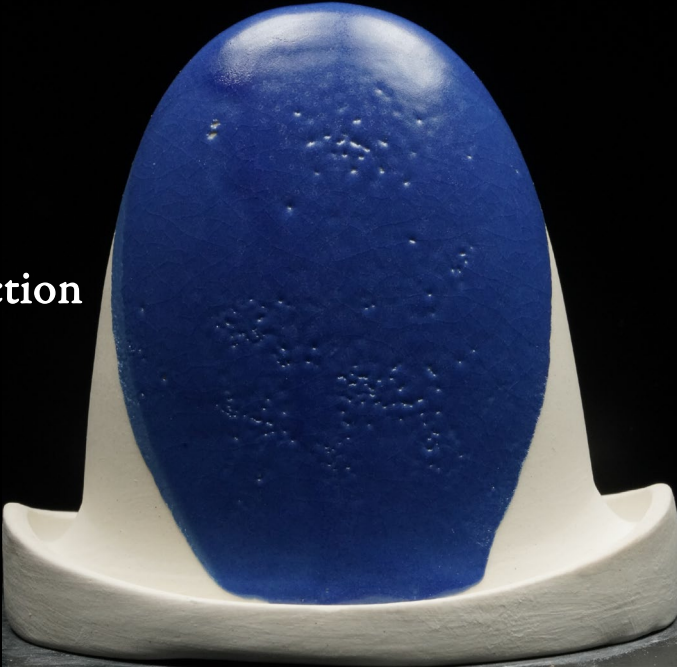
1-3 Second Dip



2-3 Second Dips



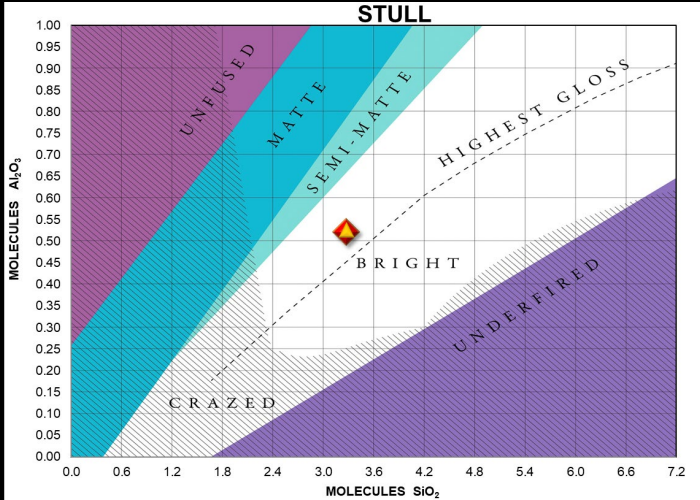
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 6.22 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 3.38	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 6.22 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 3.27	Collective "Al ₂ O ₃ " 0.53	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.01	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

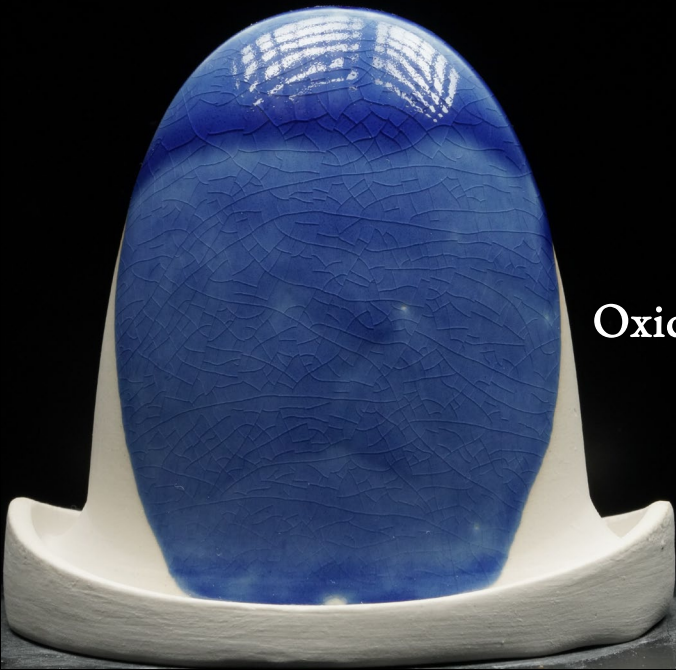


Ceramic
Materials
Workshop

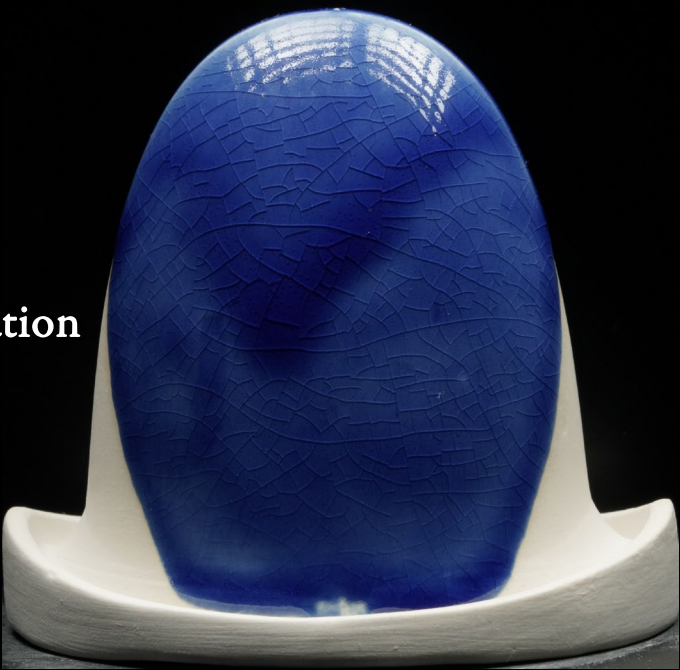
KB Matte

Mapping
Kaolin 2
070522-29

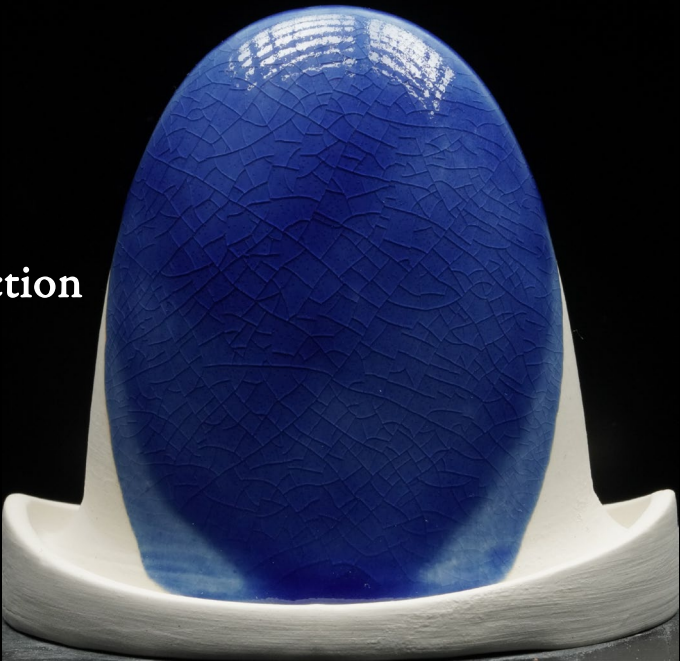
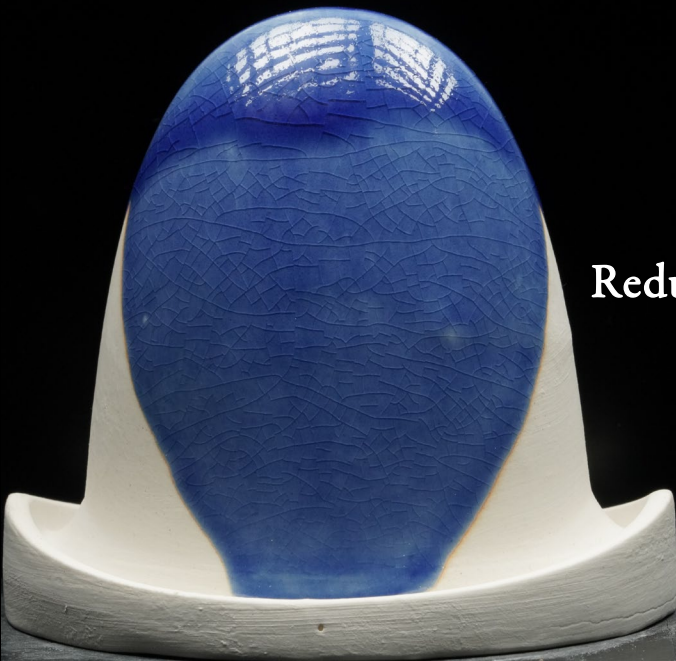
Neph Sy	25.68
Whiting	21.83
EPK	15.13
Flint	16.82
3134	20.54
Cobalt Carbonate	1.01
Water	100



1-3 Second Dip

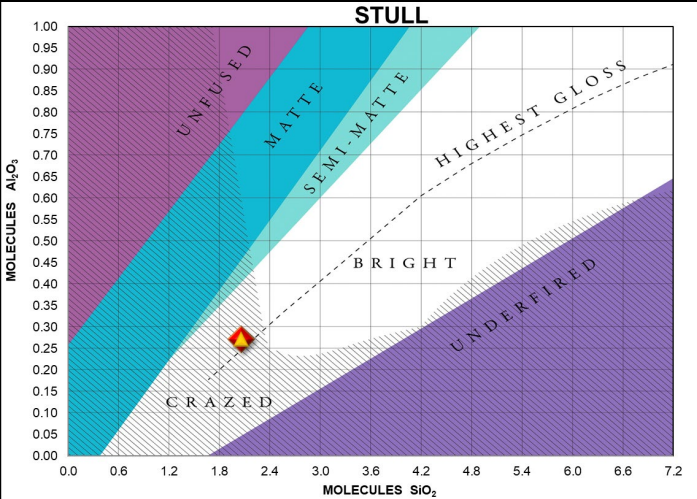


2-3 Second Dips



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 7.53 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.10	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.00	CaO 0.76
B ₂ O ₃ 0.15	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 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



SiO ₂ :Al ₂ O ₃ Ratio 7.53 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.06	Collective "Al ₂ O ₃ " 0.27	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 0.27	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	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

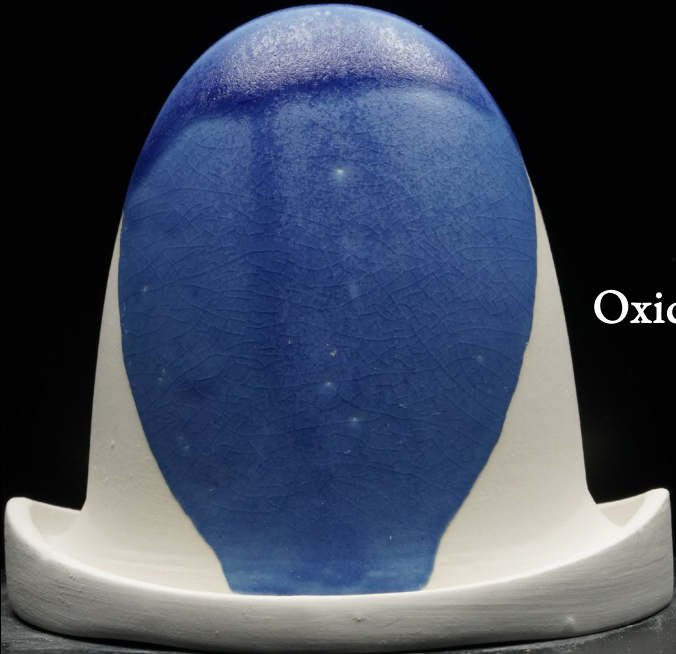


Ceramic
Materials
Workshop

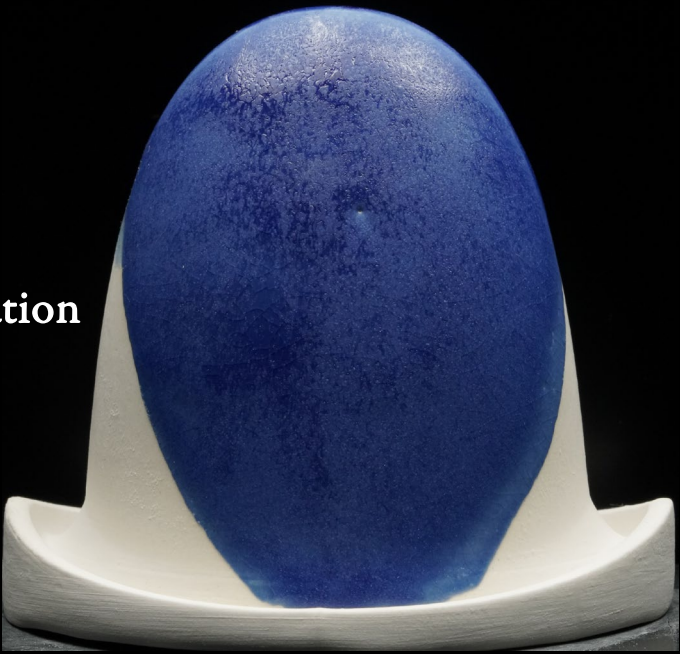
KB Matte

Mapping
Kaolin 3
070522-30

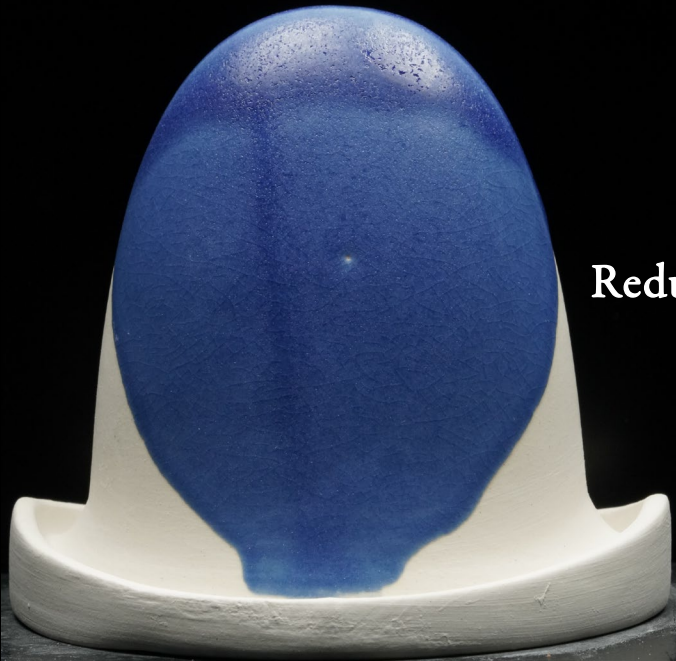
Neph Sy	22.30
Whiting	18.96
EPK	26.29
Flint	14.61
3134	17.84
Cobalt Carbonate	1.01
Water	100



1-3 Second Dip



2-3 Second Dips



1-3 Second Dip



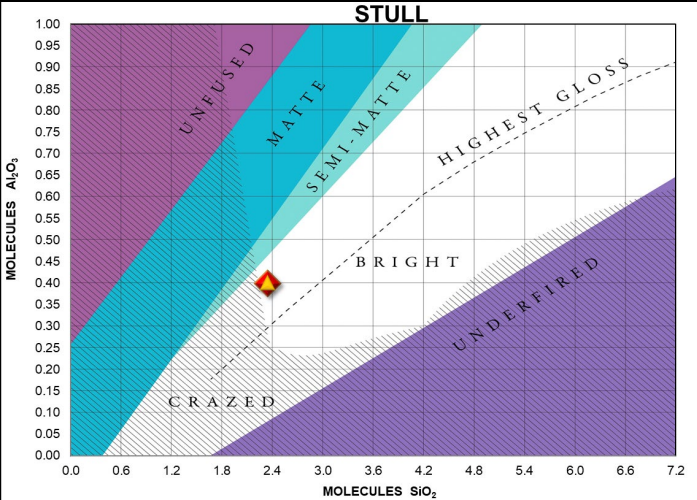
2-3 Second Dips

Oxidation

Reduction

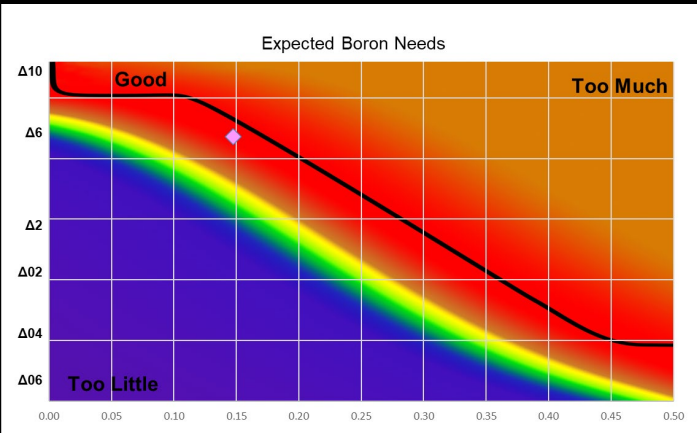
UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.83 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.40	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.00	CaO 0.76
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 5.83 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.34	Collective "Al ₂ O ₃ " 0.40	Na ₂ O 0.19	K ₂ O 0.03	MgO 0.00	CaO 0.74
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.40	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	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

Mapping
Kaolin 5
070522-31

Neph Sy	17.66
Whiting	15.01
EPK	41.63
Flint	11.57
3134	14.13
Cobalt Carbonate	1.01
Water	130



1-3 Second Dip



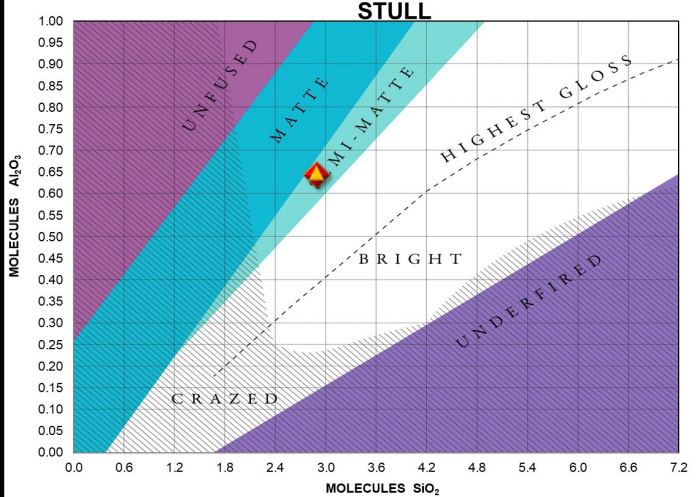
2-3 Second Dips



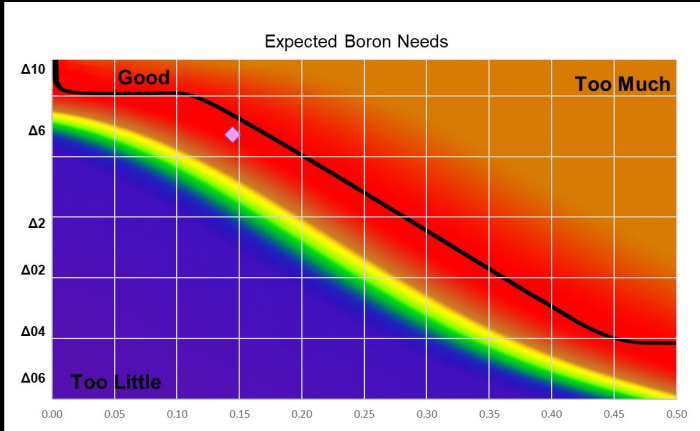
Reduction

Oxidation

SiO ₂ :Al ₂ O ₃ Ratio 4.45 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.98	Collective "Al ₂ O ₃ " 0.67	Na ₂ O 0.19	K ₂ O 0.04	MgO 0.01	CaO 0.75
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.66	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 4.45 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.89	Collective "Al ₂ O ₃ " 0.65	Na ₂ O 0.19	K ₂ O 0.04	MgO 0.01	CaO 0.72
B ₂ O ₃ 0.14	Al ₂ O ₃ 0.64	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



KB Matte

Mapping
Kaolin 6
070522-32

Neph Sy	16.00
Whiting	13.60
EPK	47.13
Flint	10.48
3134	12.80
Cobalt Carbonate	1.01
Water	150



1-3 Second Dip



2-3 Second Dips

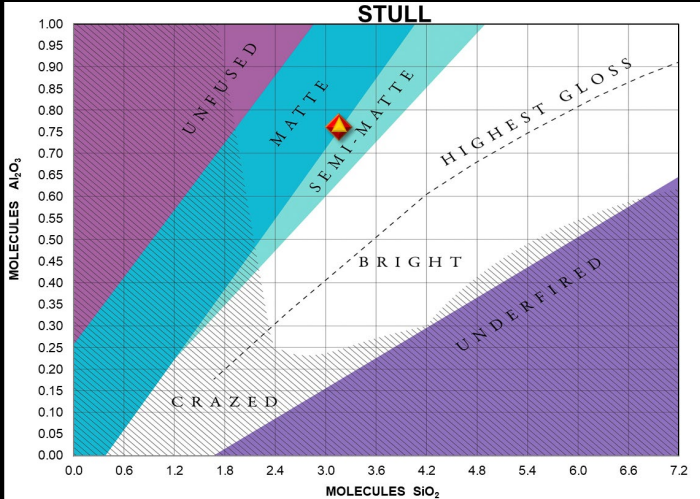


Reduction



Oxidation

SiO ₂ :Al ₂ O ₃ Ratio 4.10 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 3.26	Collective "Al ₂ O ₃ " 0.80	Na ₂ O 0.19	K ₂ O 0.04	MgO 0.01	CaO 0.74
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.79	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



SiO ₂ :Al ₂ O ₃ Ratio 4.10 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 3.16	Collective "Al ₂ O ₃ " 0.77	Na ₂ O 0.18	K ₂ O 0.04	MgO 0.01	CaO 0.72
B ₂ O ₃ 0.14	Al ₂ O ₃ 0.76	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

Mapping
Kaolin 7
070522-33

Neph Sy	14.62
Whiting	12.43
EPK	51.69
Flint	9.58
3134	11.69
Cobalt Carbonate	1.01
Water	150



1-3 Second Dip



2-3 Second Dips



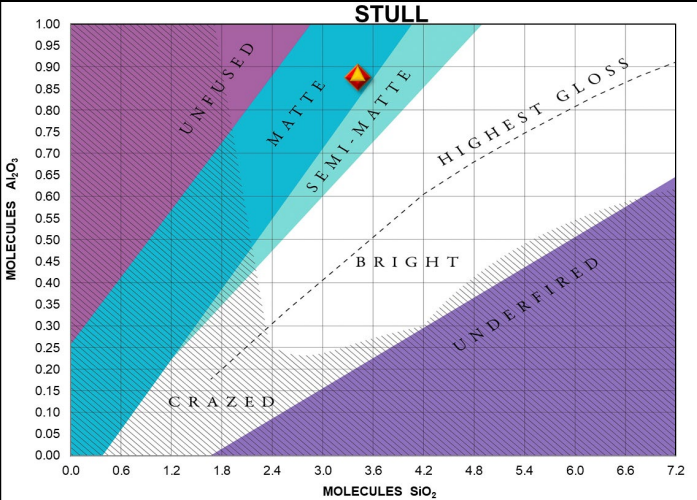
Reduction



Oxidation

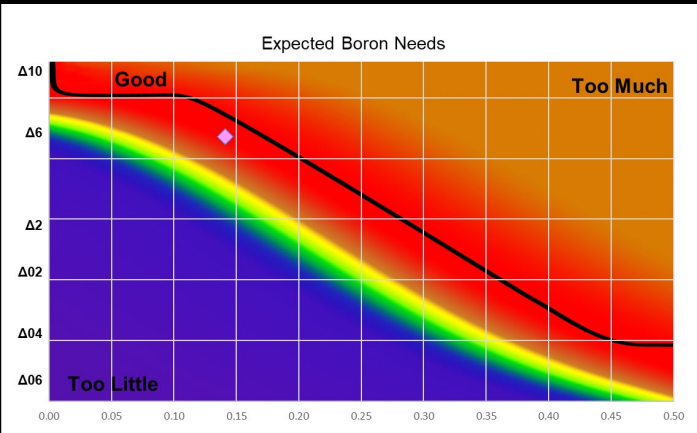
UMF

SiO ₂ :Al ₂ O ₃ Ratio 3.85 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 3.54	Collective "Al ₂ O ₃ " 0.92	Na ₂ O 0.19	K ₂ O 0.04	MgO 0.01	CaO 0.73
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.91	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 3.85 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 3.42	Collective "Al ₂ O ₃ " 0.89	Na ₂ O 0.18	K ₂ O 0.04	MgO 0.01	CaO 0.71
B ₂ O ₃ 0.14	Al ₂ O ₃ 0.88	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 0.04



Ceramic
Materials
Workshop