

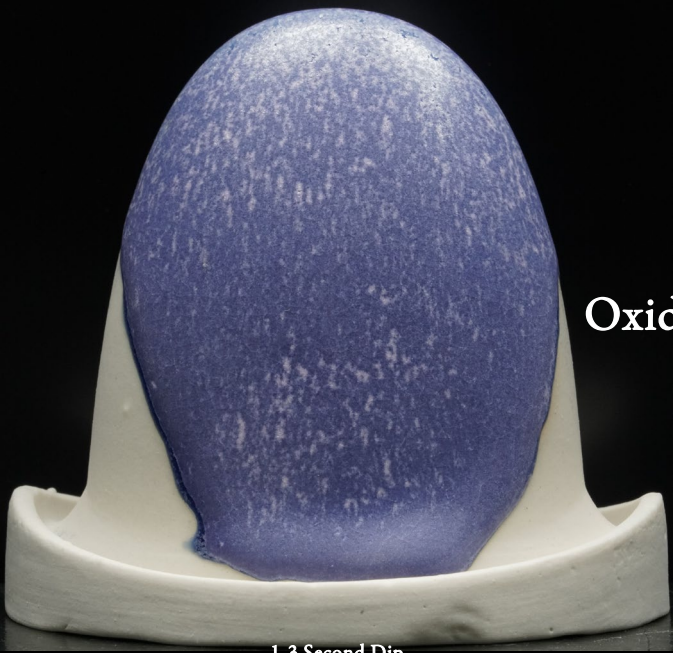
Purple Rain- Δ 10

Lab 3-Sili-Closeness

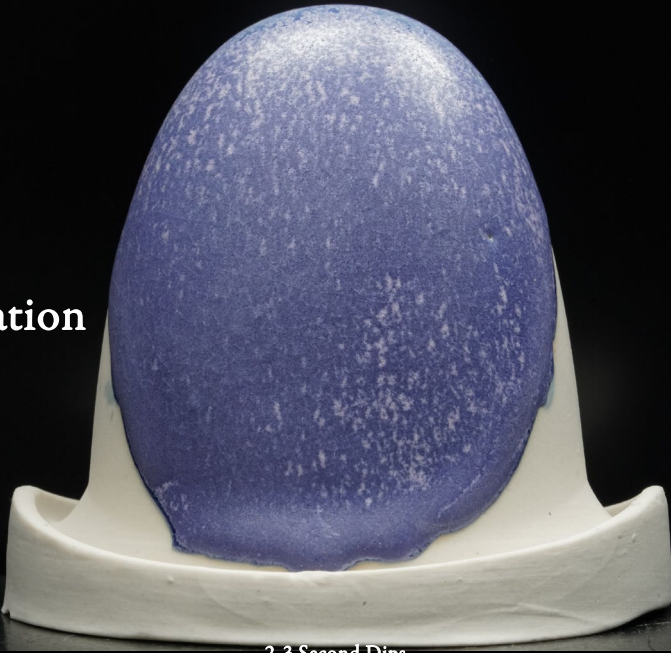
Purple Rain

Original
062722-1

Neph Sy	40.93
Dolomite	30.27
EPK	5.04
Flint	23.76
Cobalt Carbonate	1
Water	60



1-3 Second Dip



2-3 Second Dips

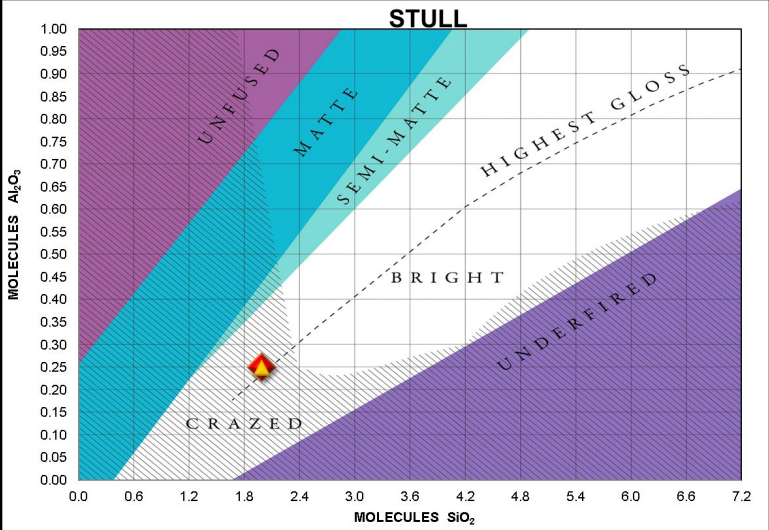


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.93 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.03	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
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



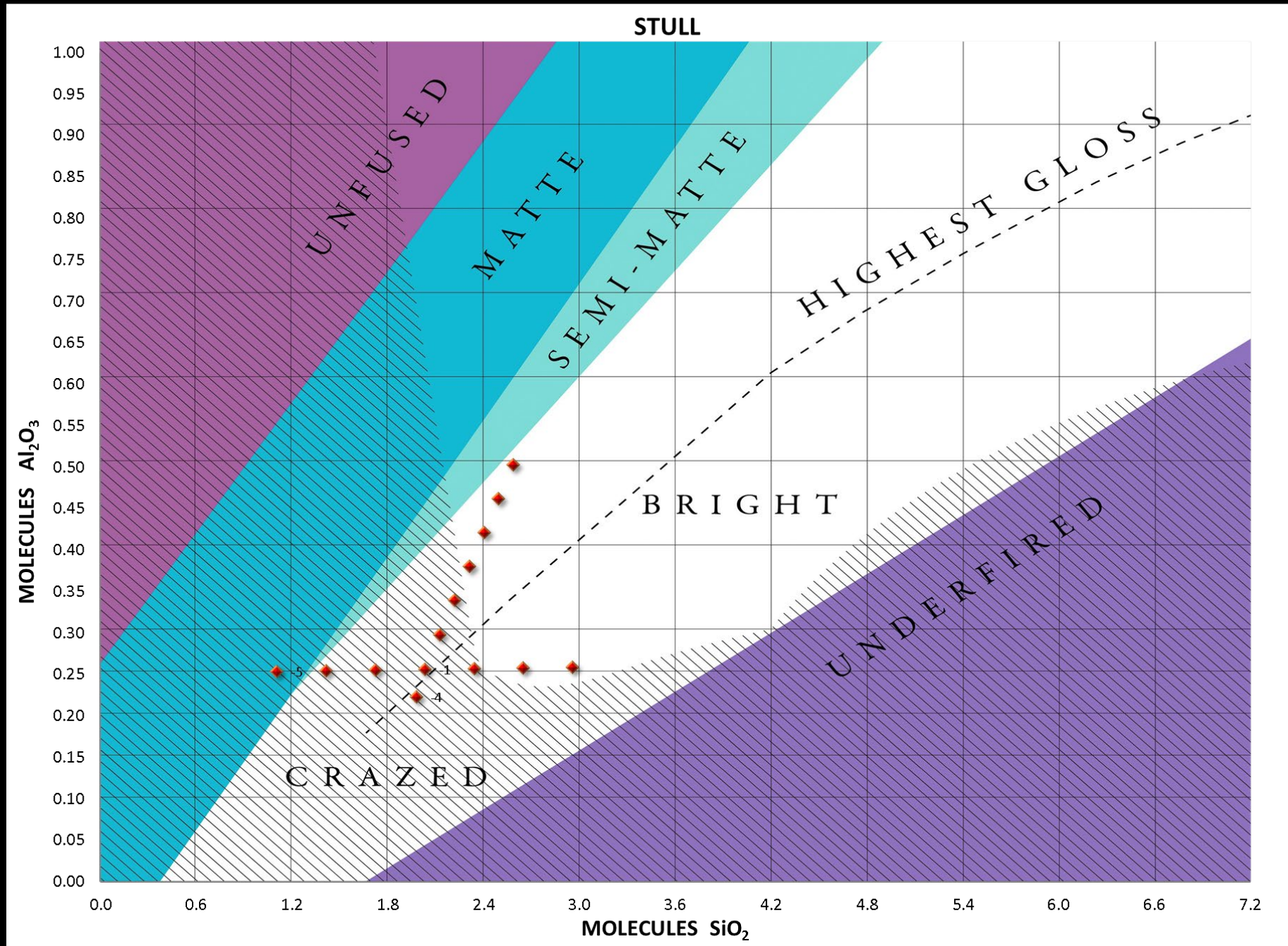
EUMF

SiO ₂ :Al ₂ O ₃ Ratio 7.93 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.99	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.25	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 0.02



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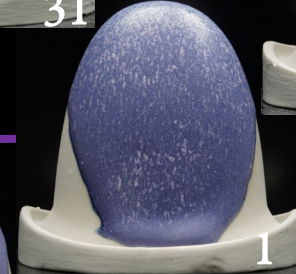
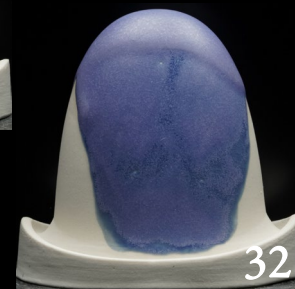
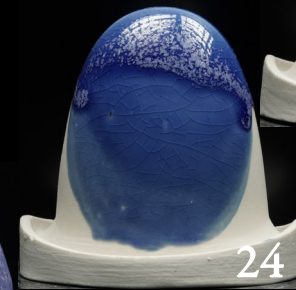
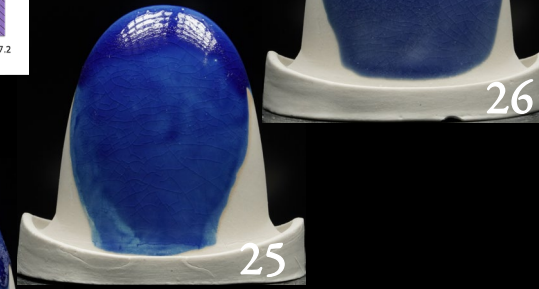
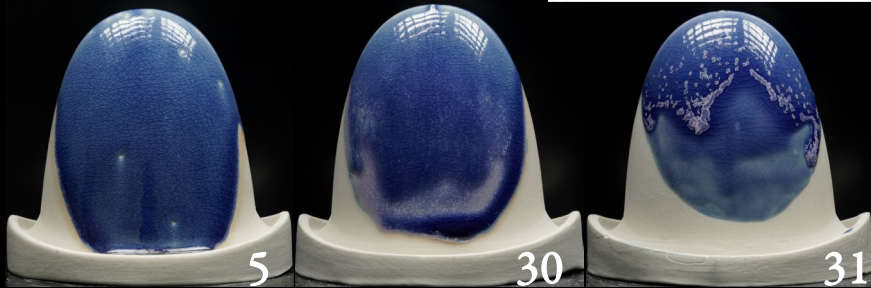
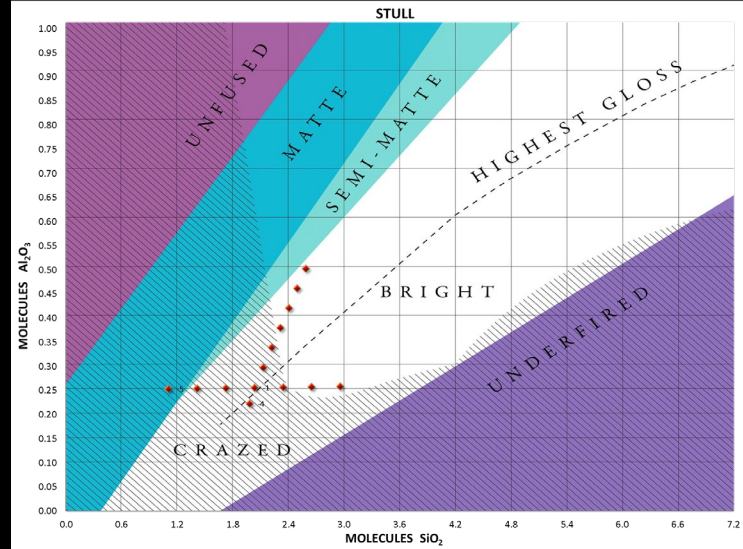
UMF



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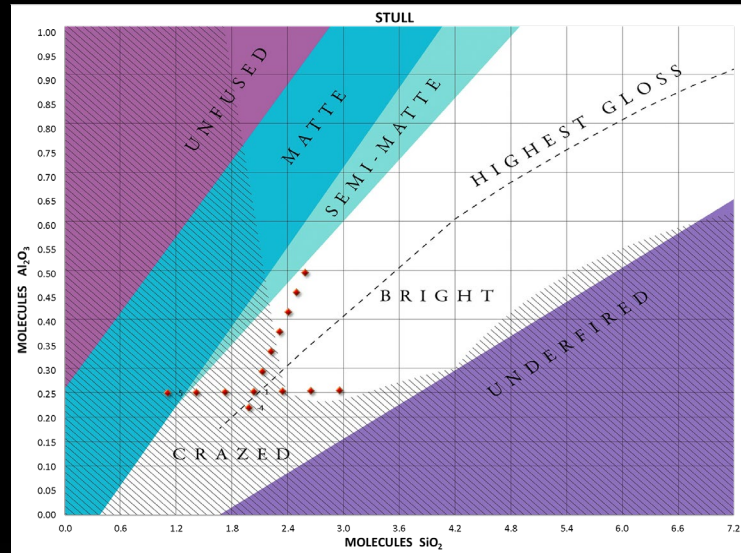
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Full Test-Oxidation-1-3 Second Dip

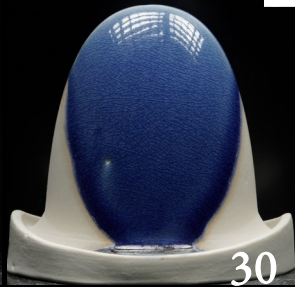


Indicates correct position of Silica samples

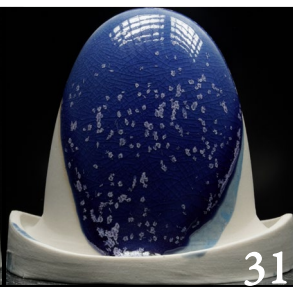
Full Test-Oxidation-2-3 Second Dips



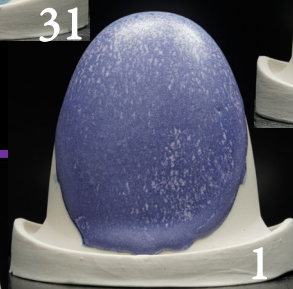
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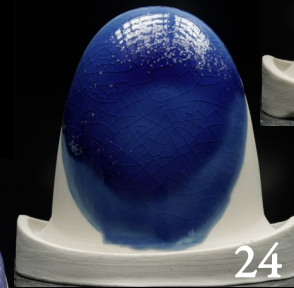
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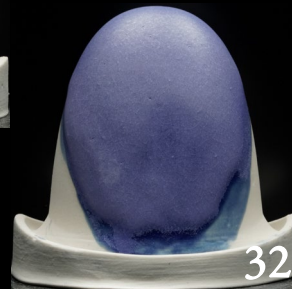
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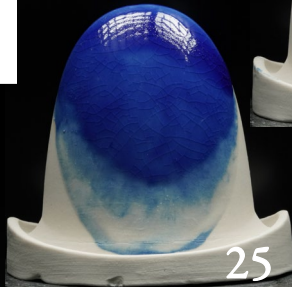
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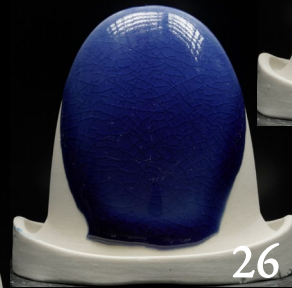
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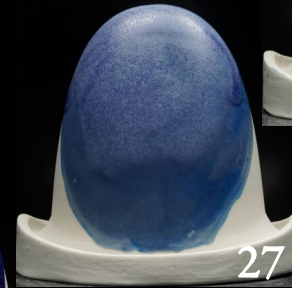
32



25



26



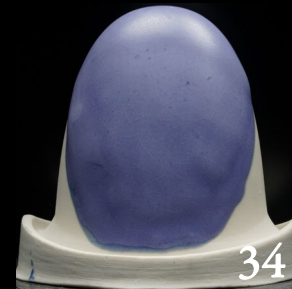
27



28



29



34



33



4

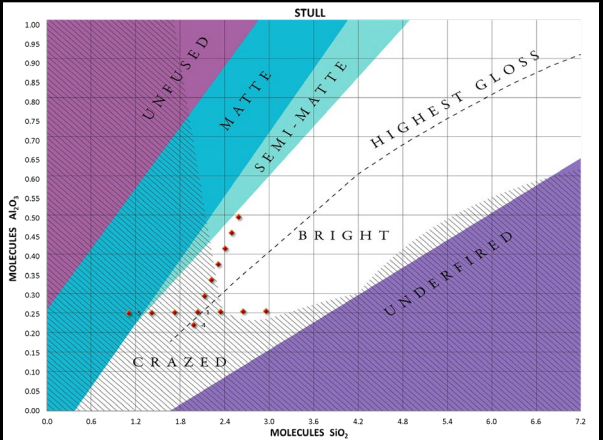
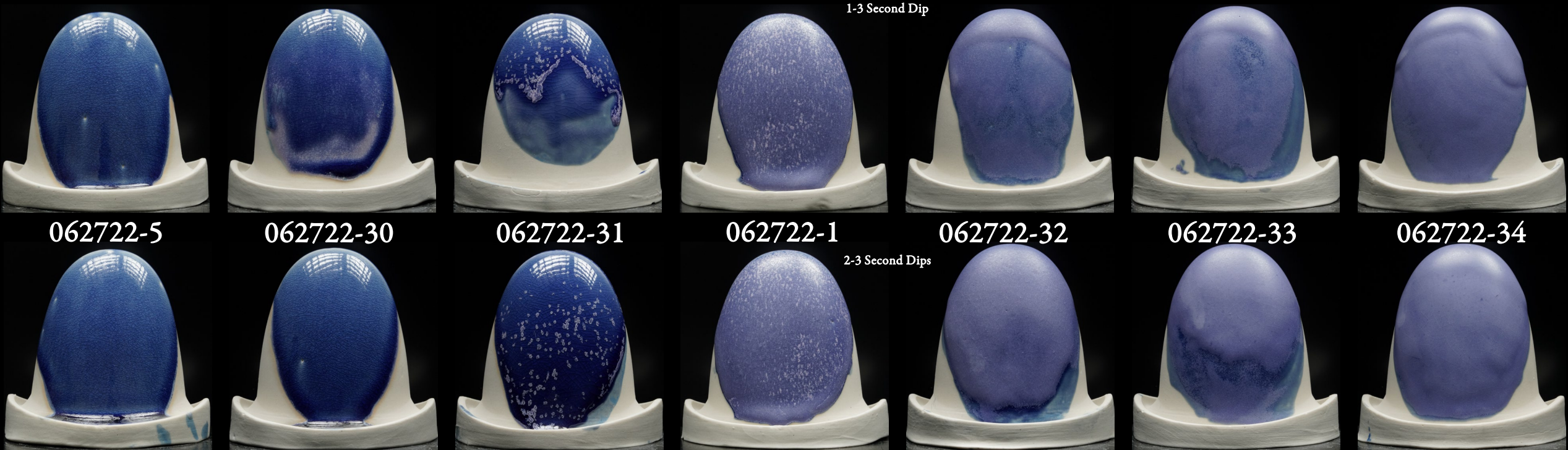
Indicates correct position of Silica samples



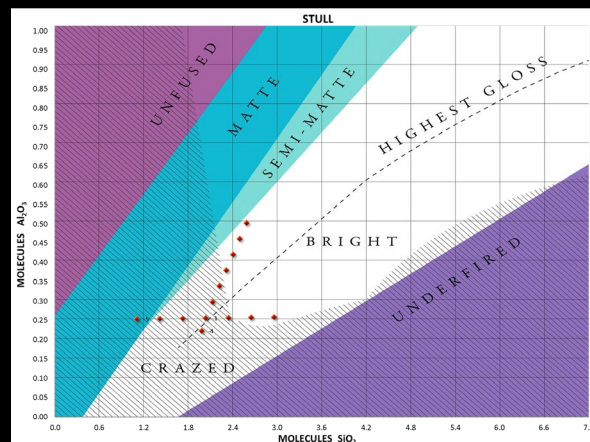
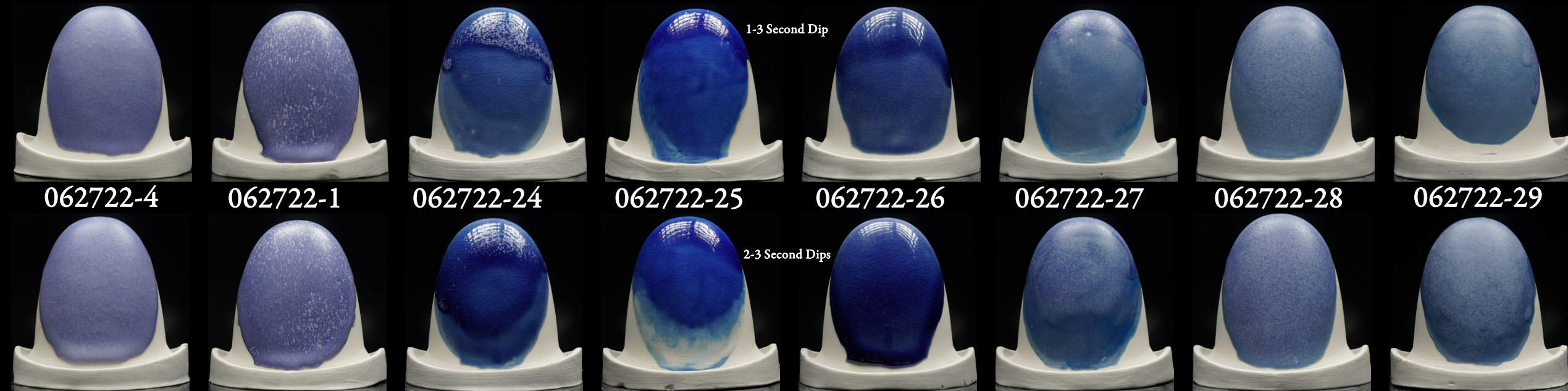
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Silica Variations-Oxidation



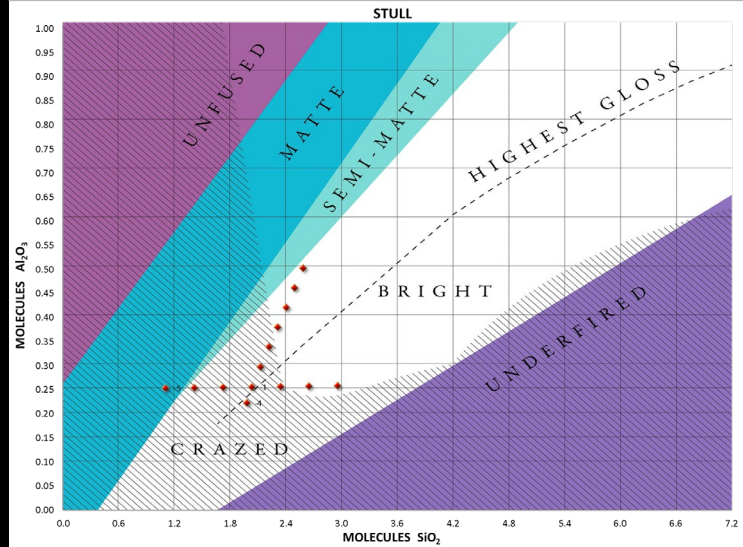
Alumina Variations-Oxidation



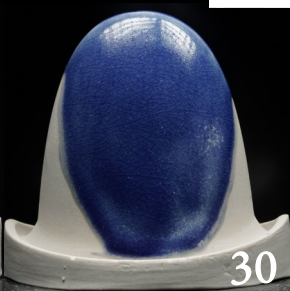
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Full Test-Reduction-1-3 Second Dip



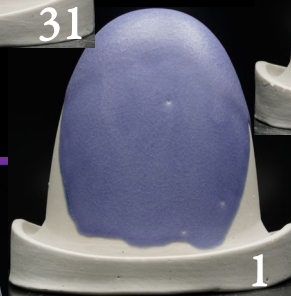
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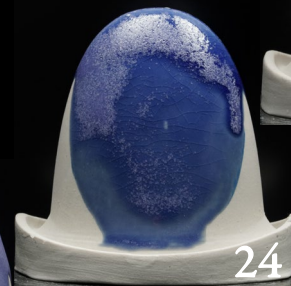
30



31



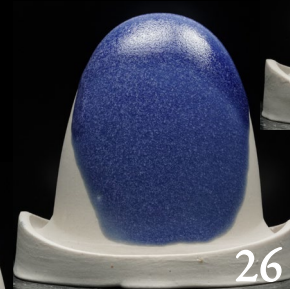
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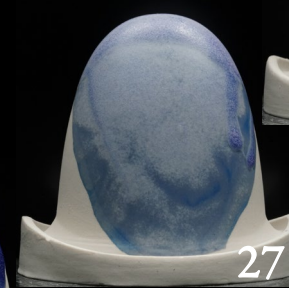
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25



26



27



28



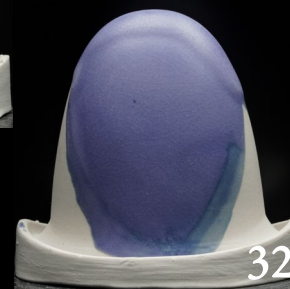
29



33



34



32



4

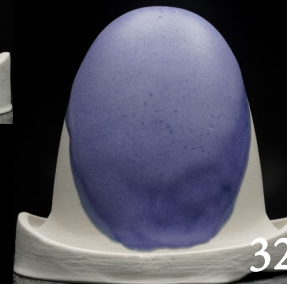
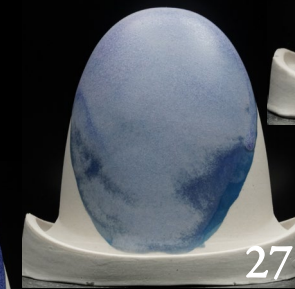
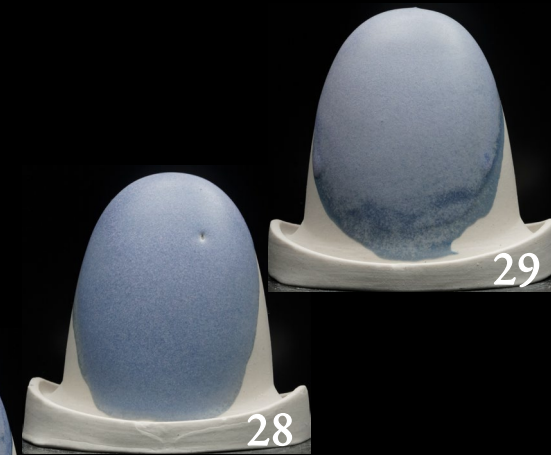
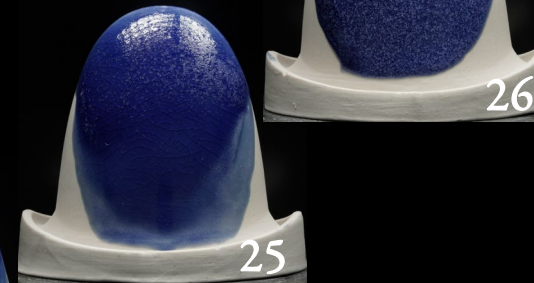
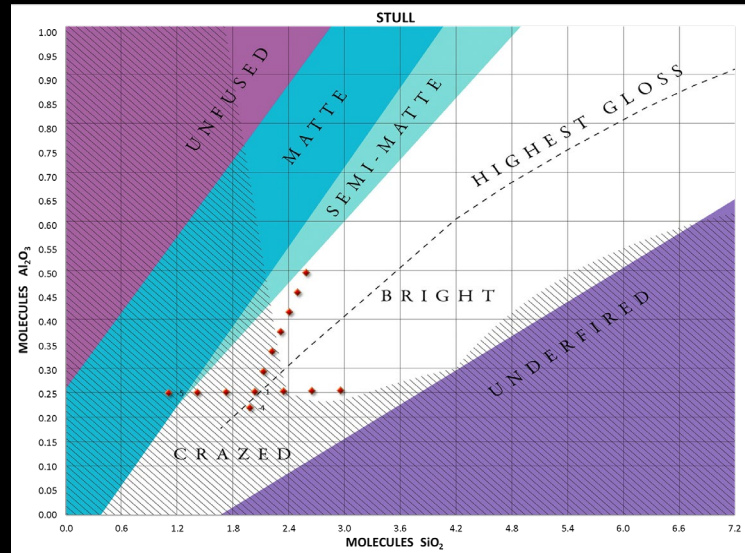
Indicates correct position of Silica samples



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Full Test-Reduction-2-3 Second Dips



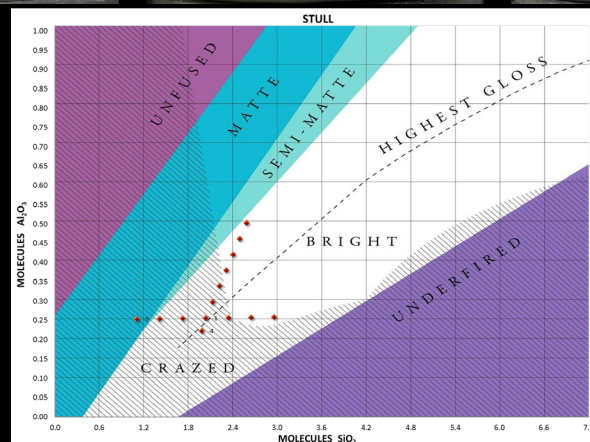
Indicates correct position of Silica samples



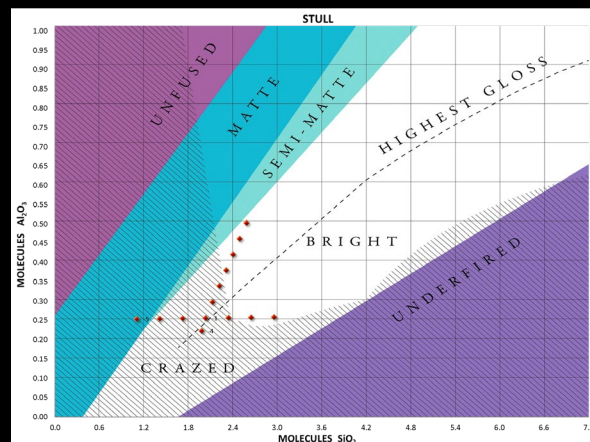
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Silica Variations-Reduction

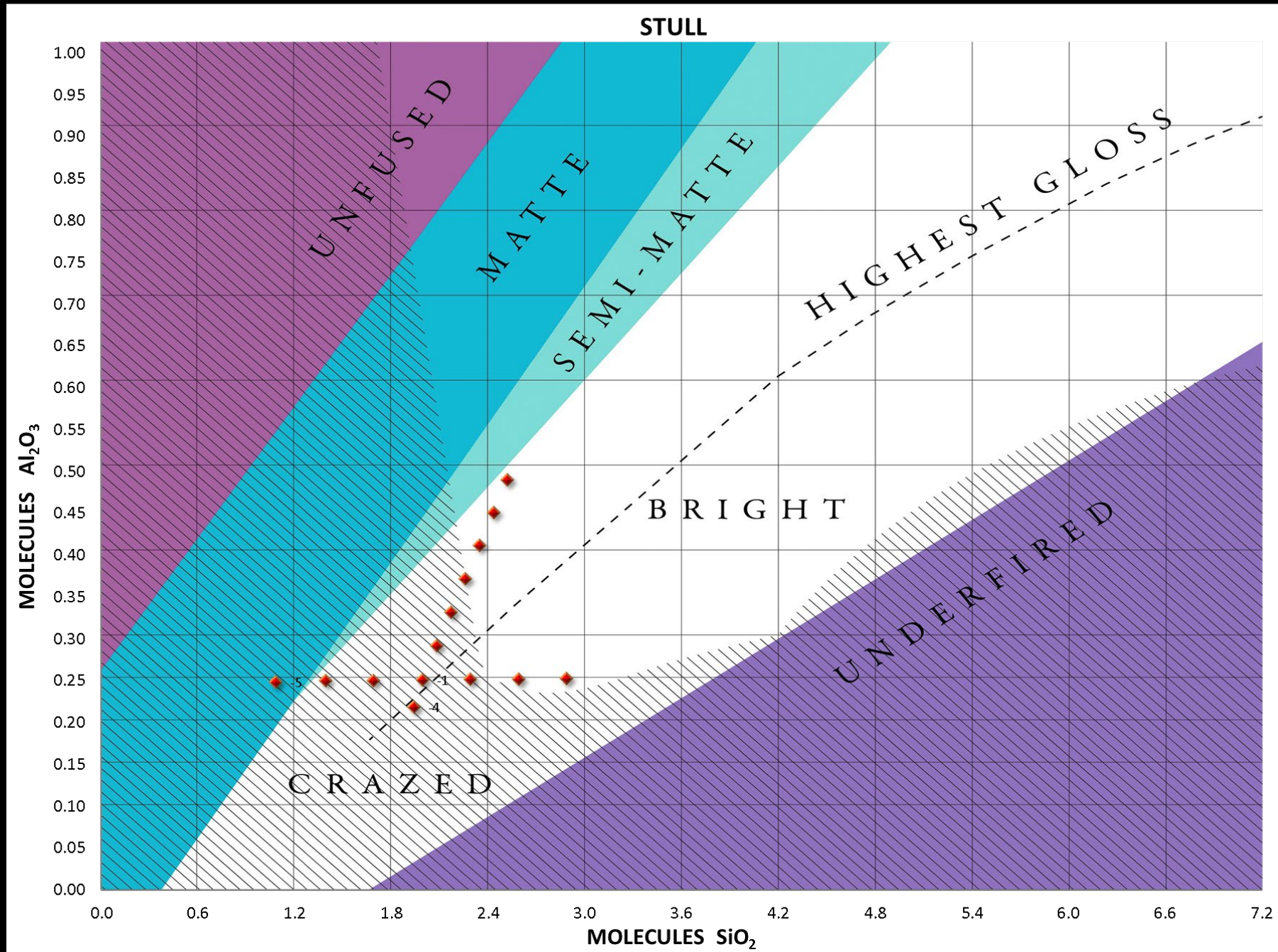


Alumina Variations-Reduction



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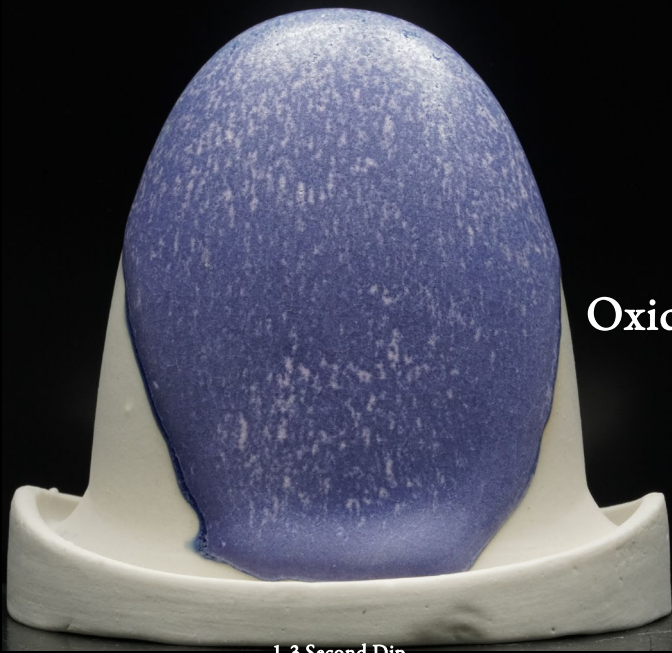


Purple Rain

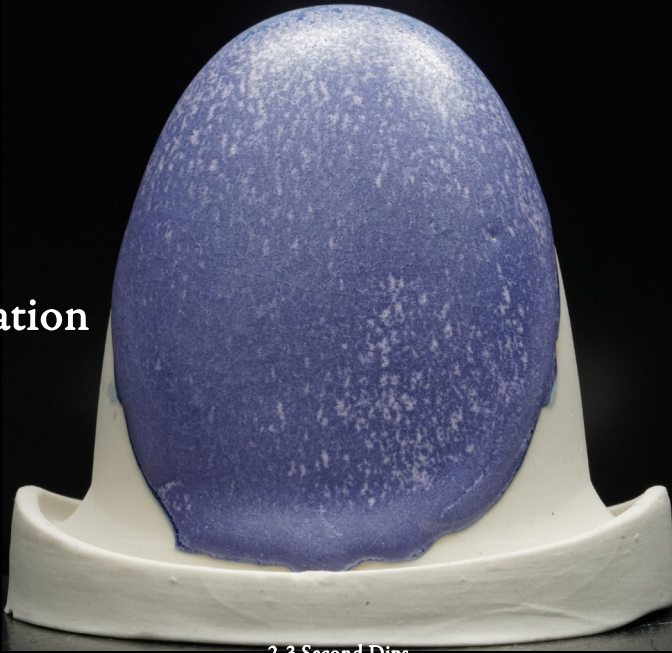
Original

062722-1

Neph Sy	40.93
Dolomite	30.27
EPK	5.04
Flint	23.76
Cobalt Carbonate	1
Water	60



1-3 Second Dip



2-3 Second Dips



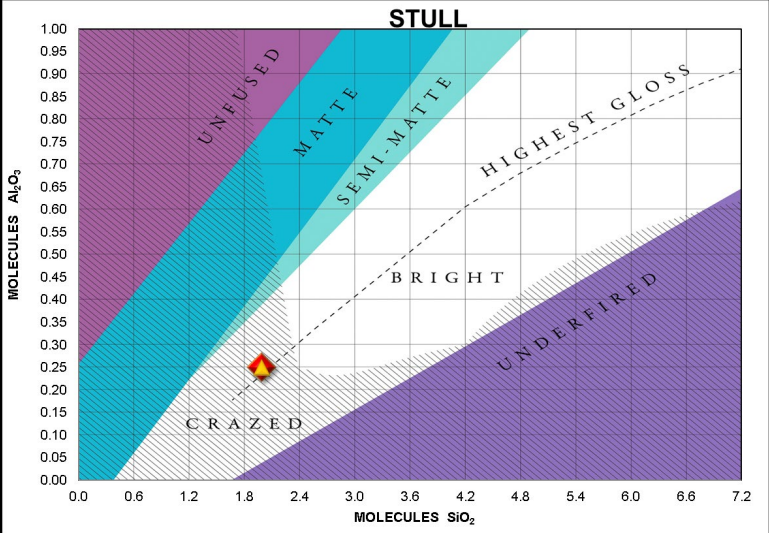
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.93 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.03	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
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 7.93 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.99	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.25	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 0.02



Ceramic
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Purple Rain

w/o Kaolin

062722-4

Neph Sy	43.10
Dolomite	31.87
EPK	
Flint	25.02
Bentonite	2.00
Cobalt Carbonate	1.02
Water	60



Oxidation

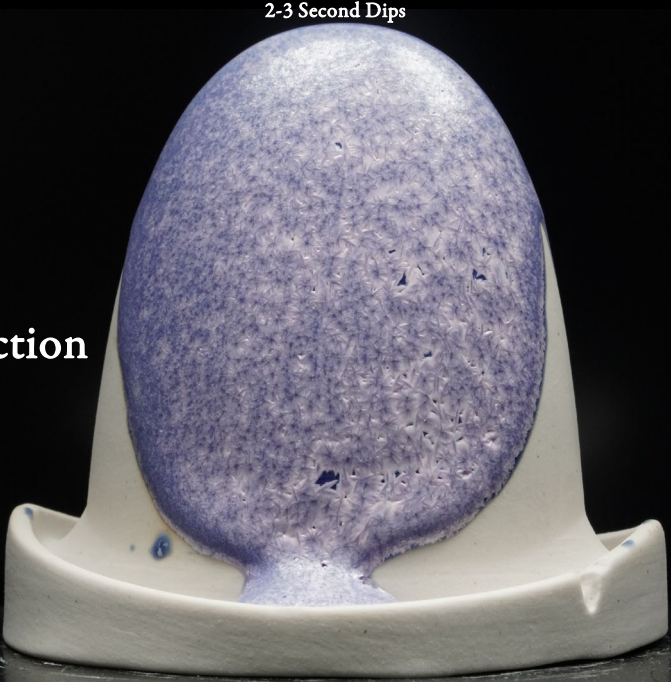
1-3 Second Dip



2-3 Second Dips

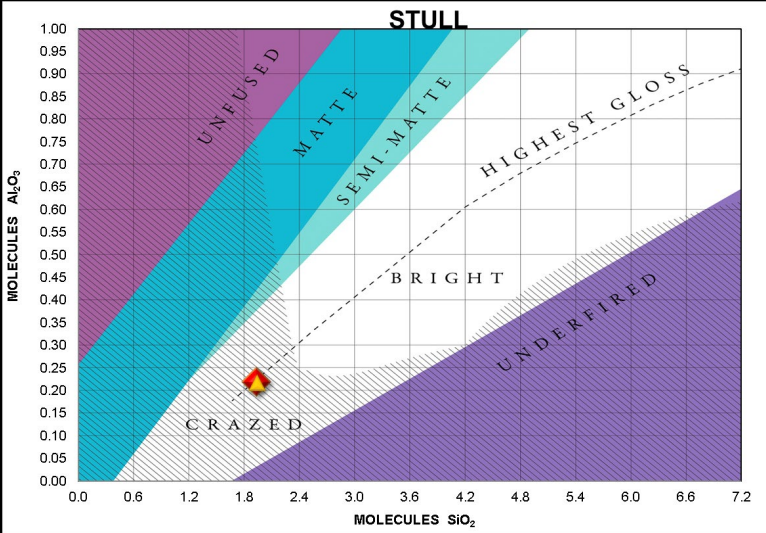


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.88 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.98	Collective "Al ₂ O ₃ " 0.22	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
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 8.88 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.94	Collective "Al ₂ O ₃ " 0.22	Na ₂ O 0.16	K ₂ O 0.04	MgO 0.39	CaO 0.39
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 0.02



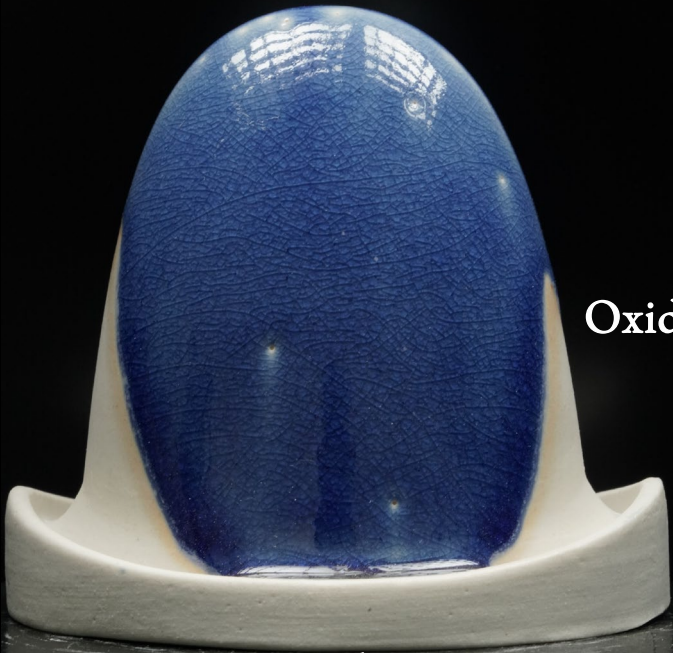
Ceramic
Materials
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Purple Rain

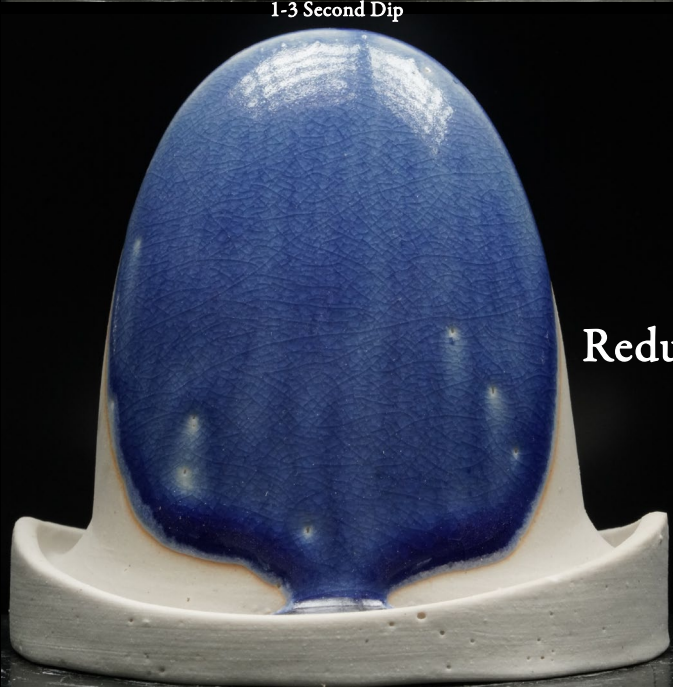
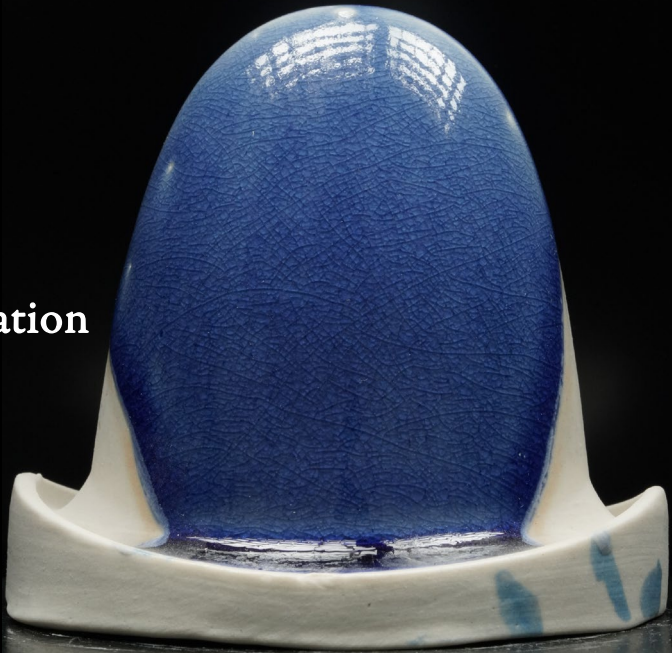
w/o Silica

062722-5

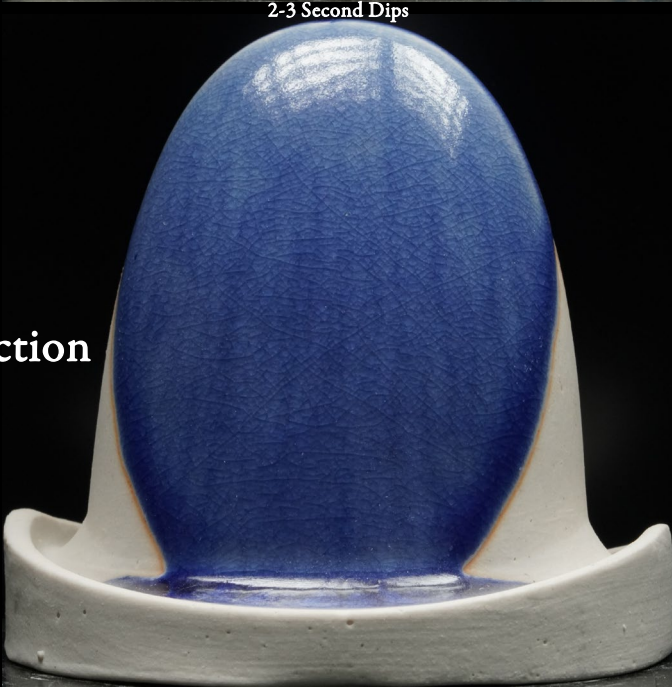
Neph Sy	53.68
Dolomite	39.70
EPK	6.62
Flint	
Cobalt Carbonate	1
Water	60



Oxidation

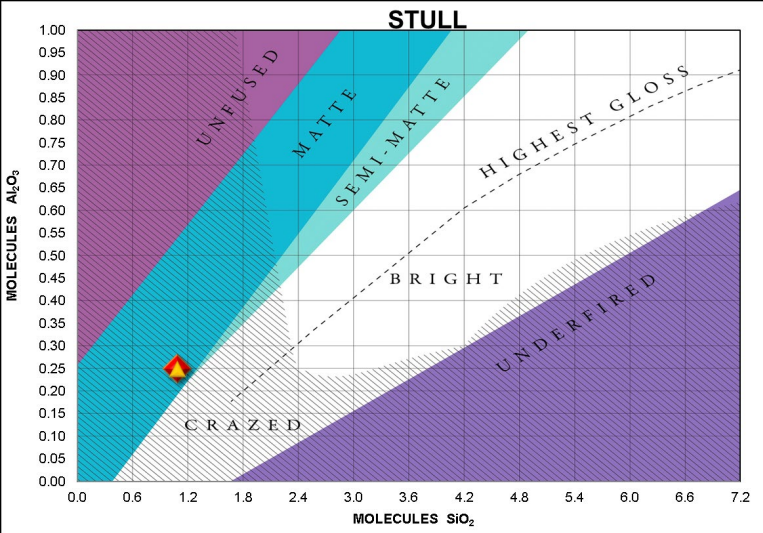


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 4.35 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.10	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.25	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 4.35 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.09	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.25	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 0.02



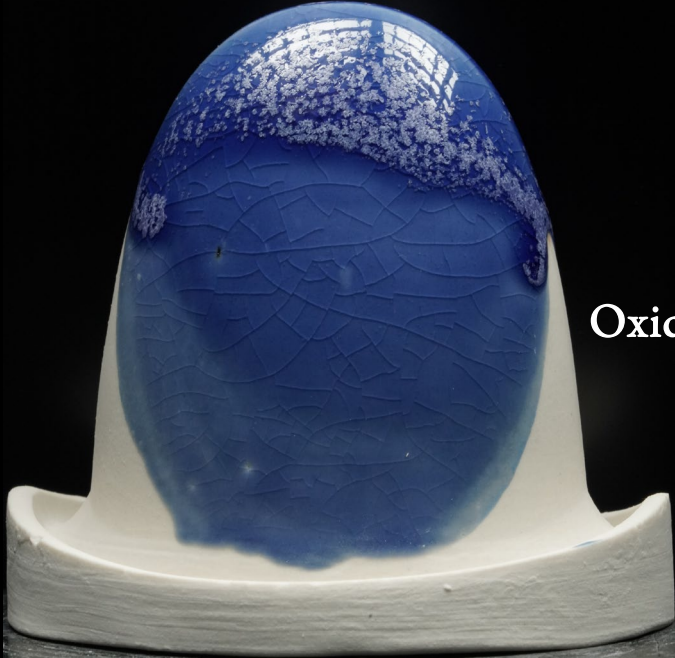
Ceramic
Materials
Workshop

Purple Rain

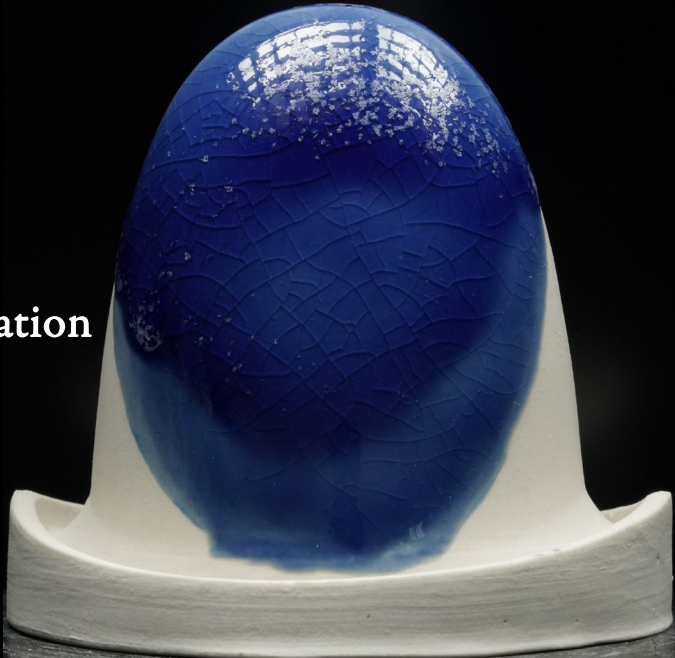
Mapping-Kaolin 2

062722-24

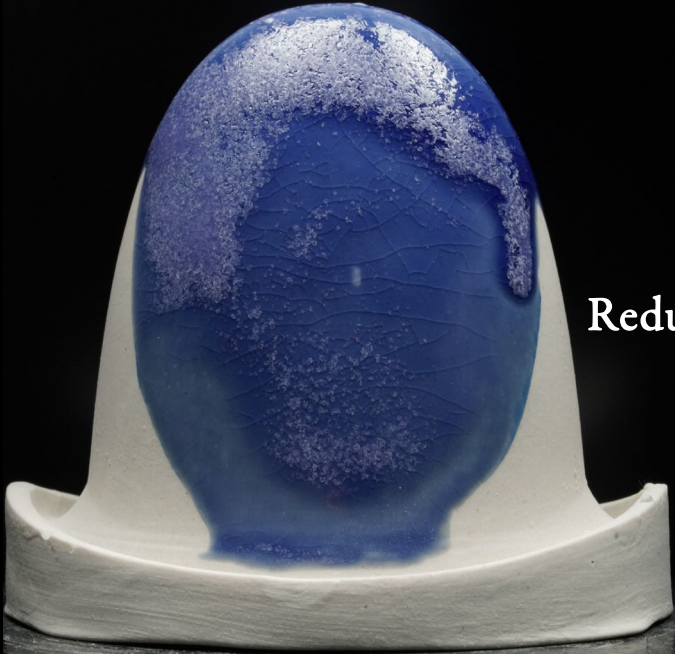
Neph Sy	38.96
Dolomite	28.81
EPK	9.62
Flint	22.62
Cobalt Carbonate	1
Water	60



1-3 Second Dip



2-3 Second Dips

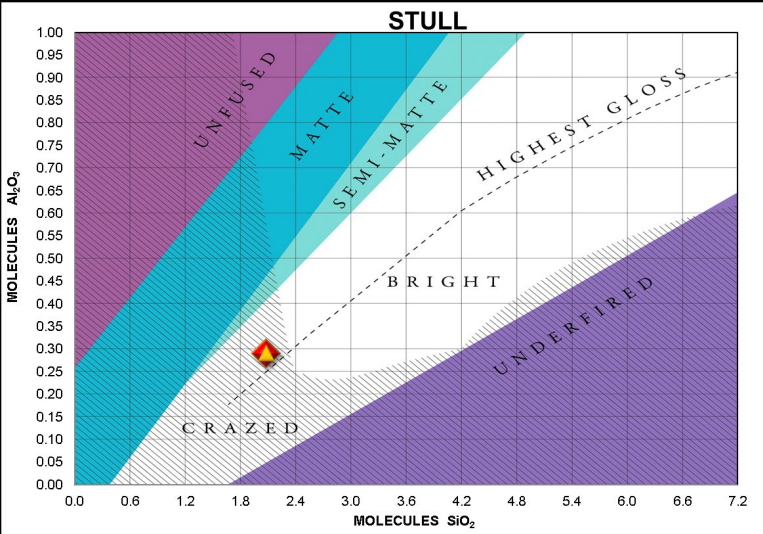


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.13 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.12	Collective "Al ₂ O ₃ " 0.30	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.30	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 7.13 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.08	Collective "Al ₂ O ₃ " 0.29	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.29	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 0.02



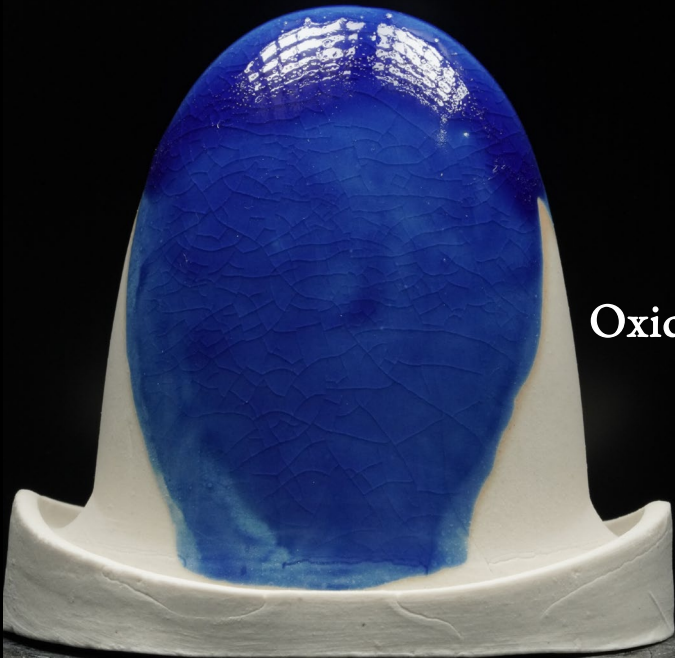
Ceramic
Materials
Workshop

Purple Rain

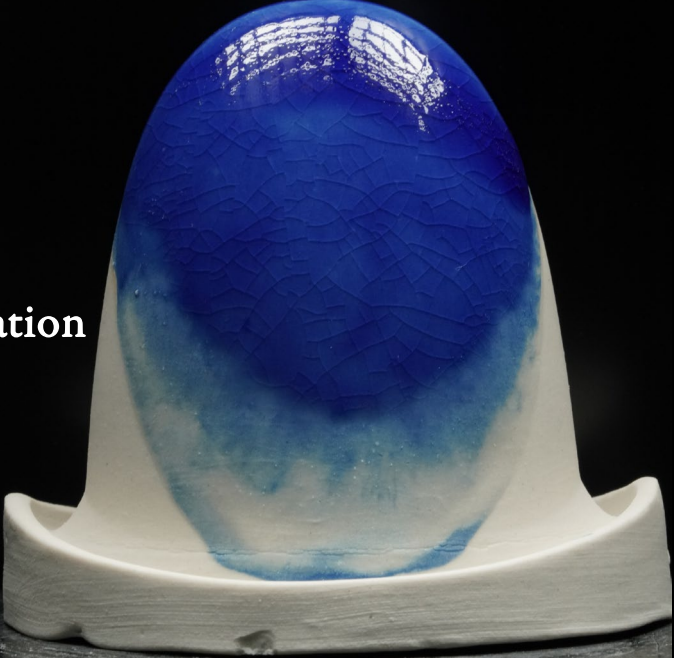
Mapping-Kaolin 4

062722-25

Neph Sy	37.17
Dolomite	27.49
EPK	13.76
Flint	21.58
Cobalt Carbonate	1
Water	60



1-3 Second Dip



2-3 Second Dips

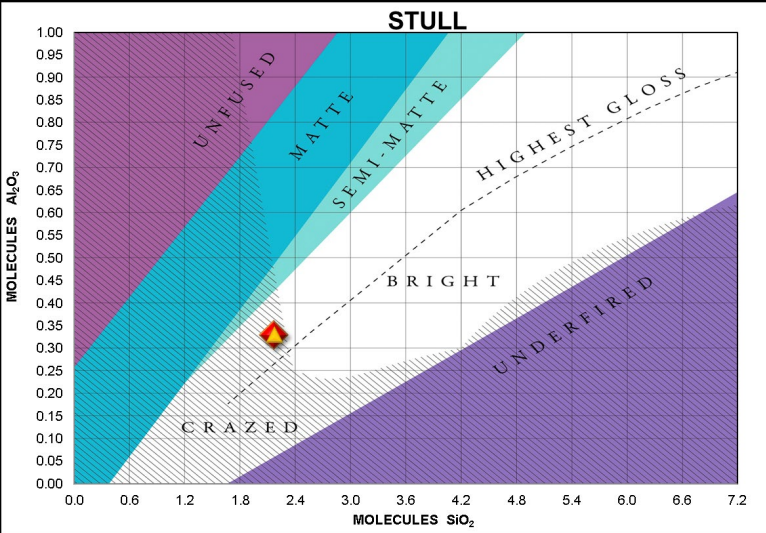


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 6.54 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.22	Collective "Al ₂ O ₃ " 0.34	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.34	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 6.54 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.17	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.33	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



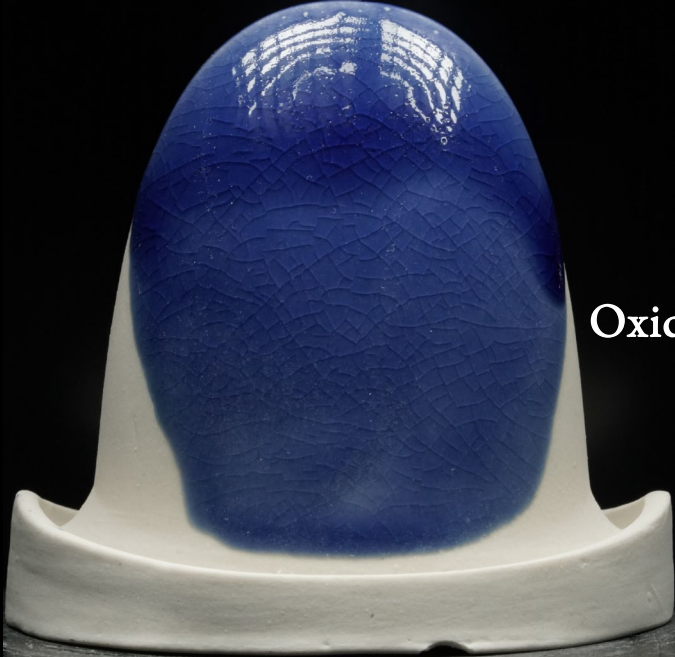
Ceramic
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Purple Rain

Mapping-Kaolin 5

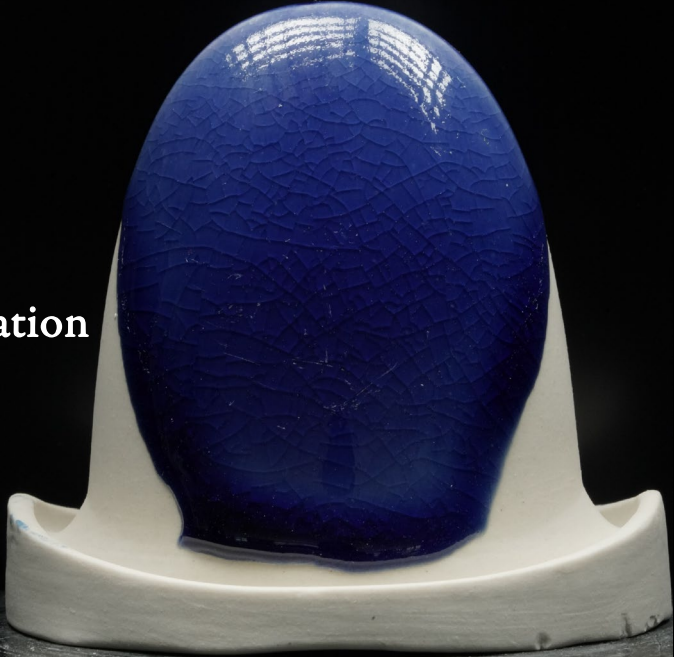
062722-26

Neph Sy	35.54
Dolomite	26.28
EPK	17.55
Flint	20.63
Cobalt Carbonate	1.01
Water	60



Oxidation

1-3 Second Dip



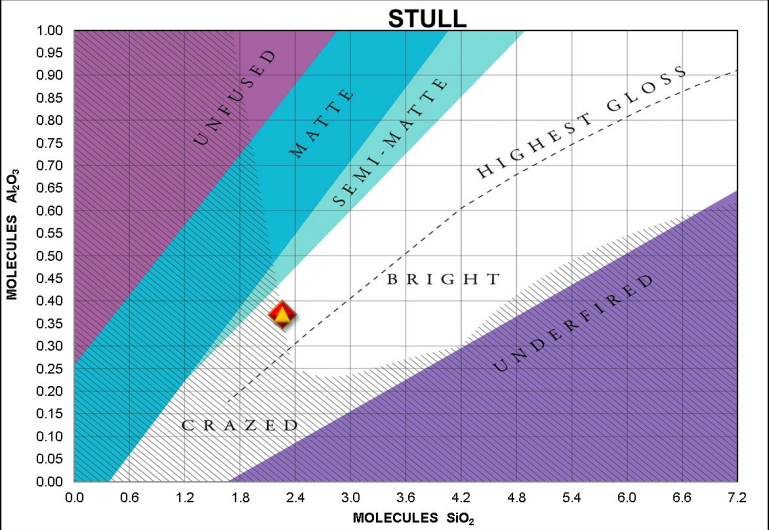
2-3 Second Dips



Reduction

UMF

SiO ₂ :Al ₂ O ₃ Ratio 6.07 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.31	Collective "Al ₂ O ₃ " 0.38	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.38	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 6.07 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.26	Collective "Al ₂ O ₃ " 0.37	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.37	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



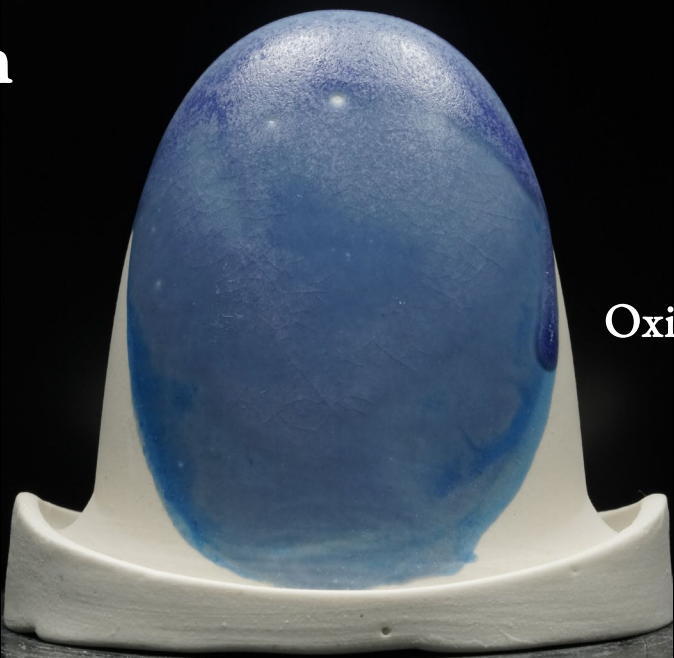
Ceramic
Materials
Workshop

Purple Rain

Mapping-Kaolin 6

062722 -27

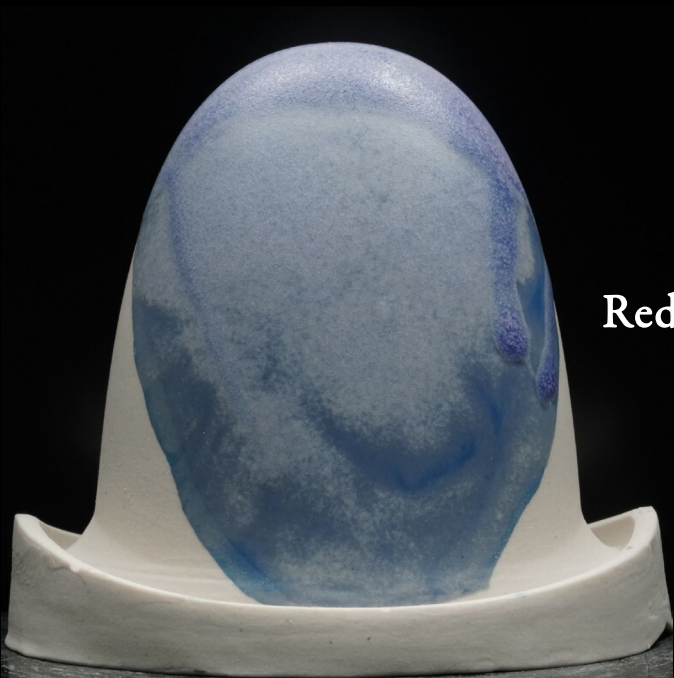
Neph Sy	34.05
Dolomite	25.18
EPK	21.01
Flint	19.77
Cobalt Carbonate	1.01
Water	60



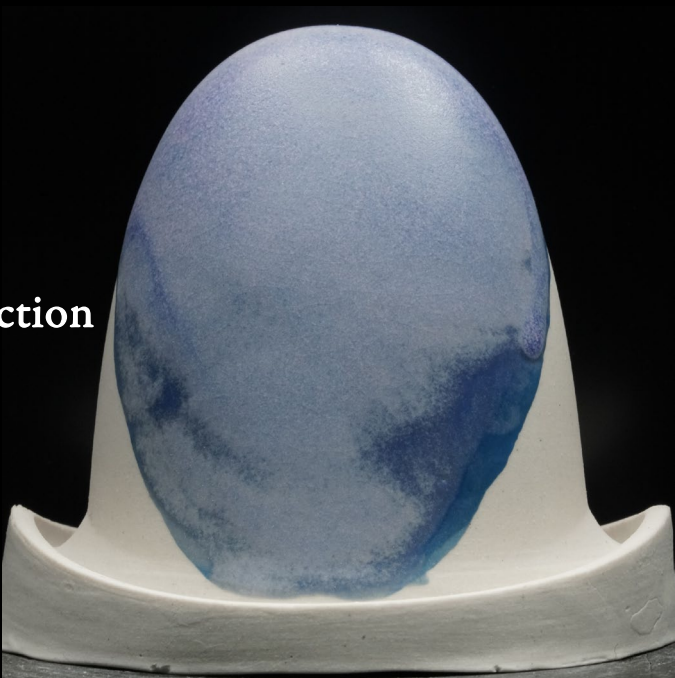
1-3 Second Dip



2-3 Second Dips



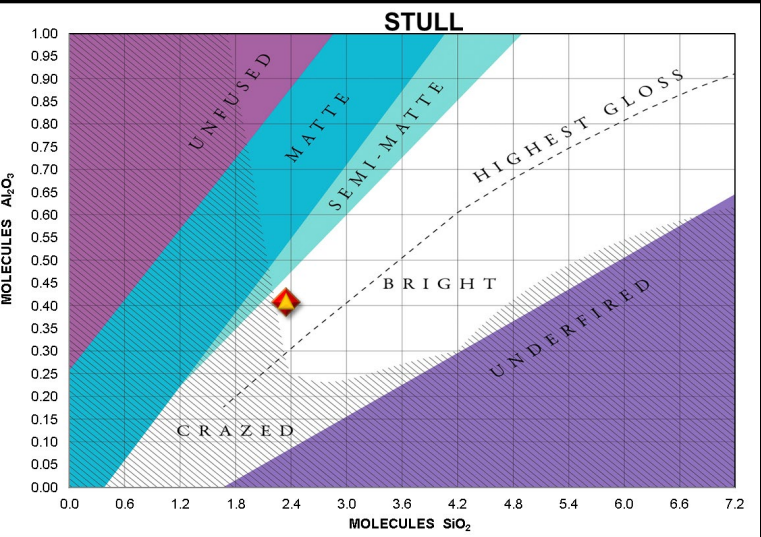
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.70 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.40	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.42	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 5.70 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.34	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.38
B ₂ O ₃	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 0.02



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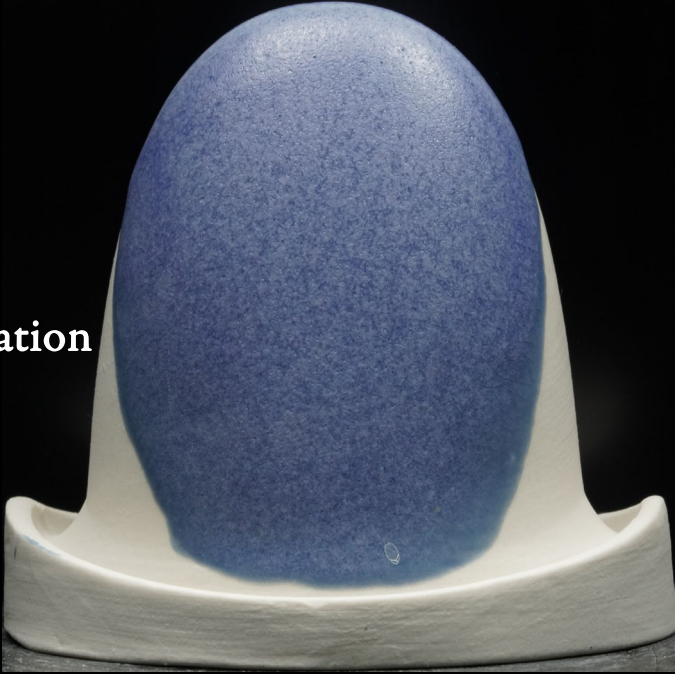
Mapping-Kaolin 7

062722 -28

Neph Sy	32.67
Dolomite	24.16
EPK	24.19
Flint	18.97
Cobalt Carbonate	1.01
Water	70



1-3 Second Dip



2-3 Second Dips

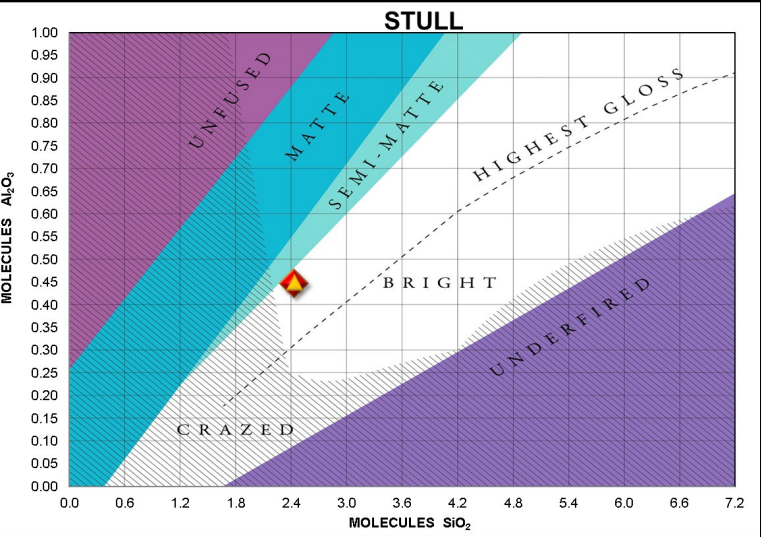


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.40 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.49	Collective "Al ₂ O ₃ " 0.46	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.46	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 5.40 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.43	Collective "Al ₂ O ₃ " 0.45	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.38
B ₂ O ₃	Al ₂ O ₃ 0.45	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



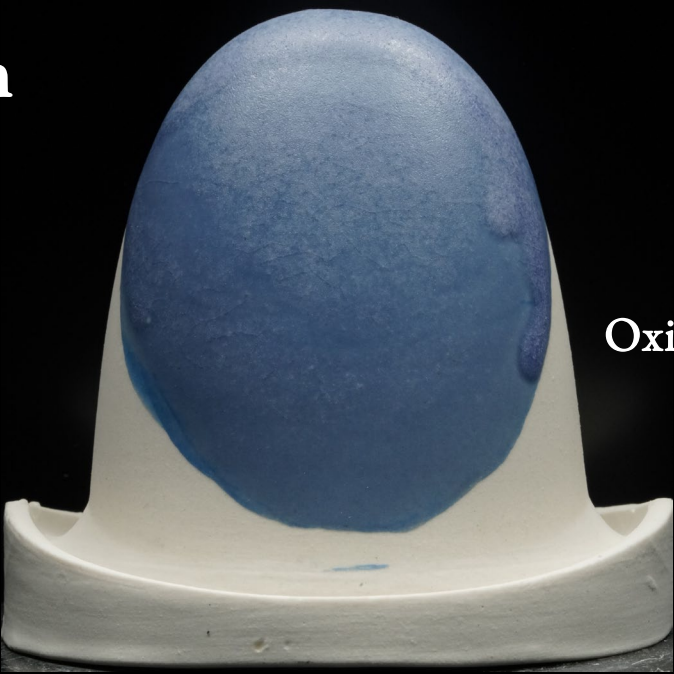
Ceramic
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Mapping-Kaolin 8

062722 -29

Neph Sy	31.41
Dolomite	23.23
EPK	27.13
Flint	18.23
Cobalt Carbonate	1.01
Water	60



1-3 Second Dip



2-3 Second Dips

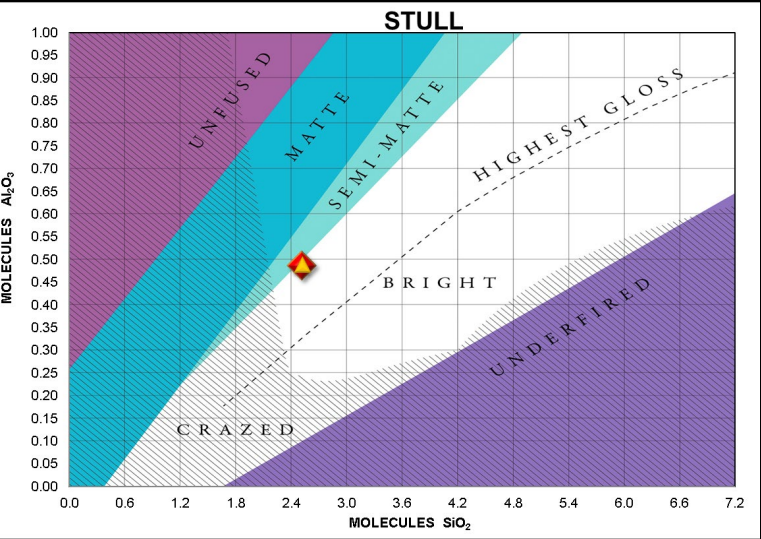


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.14 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.58	Collective "Al ₂ O ₃ " 0.50	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.50	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 5.14 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.52	Collective "Al ₂ O ₃ " 0.49	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.38
B ₂ O ₃	Al ₂ O ₃ 0.49	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 0.03



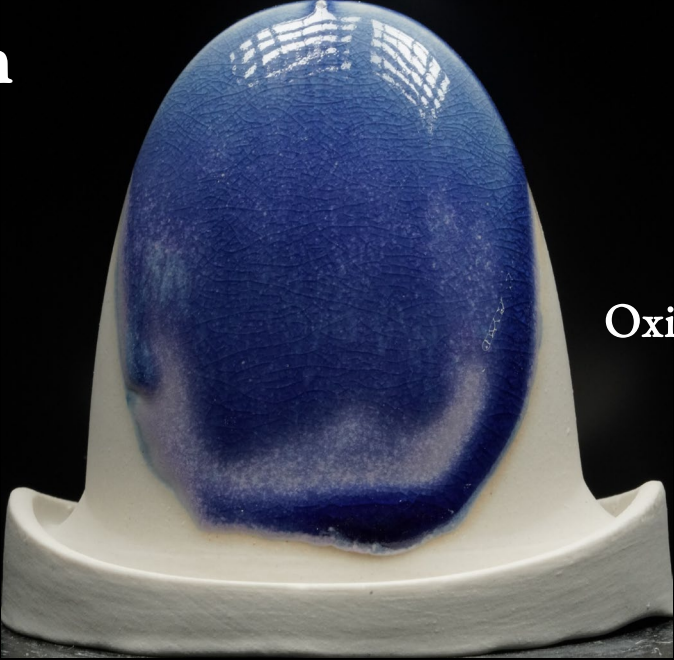
Ceramic
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Purple Rain

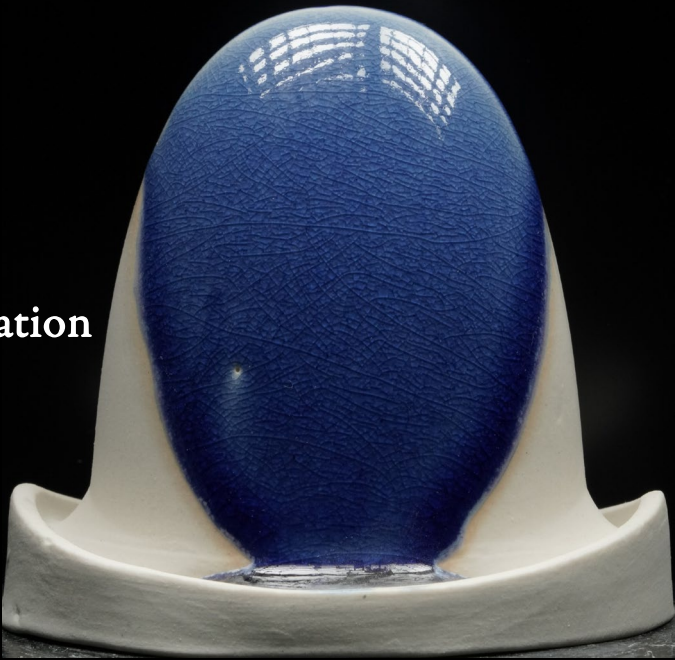
Mapping-Silica 2

062722 -30

Neph Sy	48.63
Dolomite	35.96
EPK	5.99
Flint	9.41
Cobalt Carbonate	1.02
Water	60



1-3 Second Dip



2-3 Second Dips

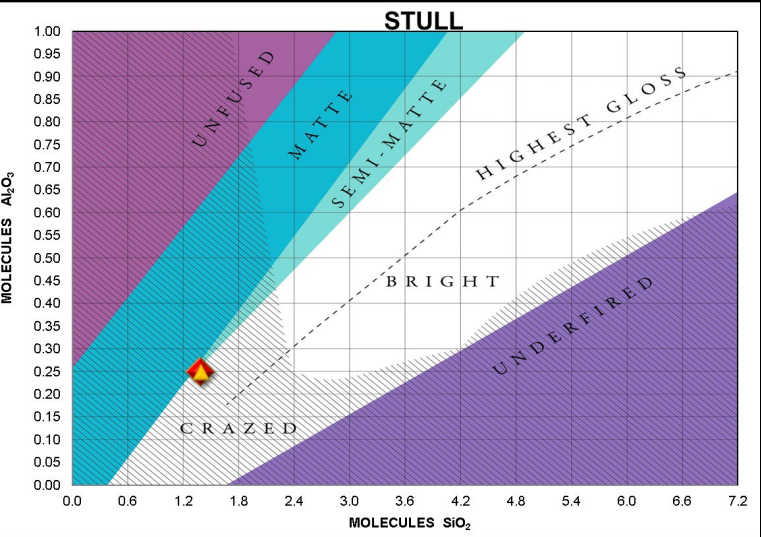


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.55 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.41	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.25	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 5.55 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.39	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.25	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 0.02



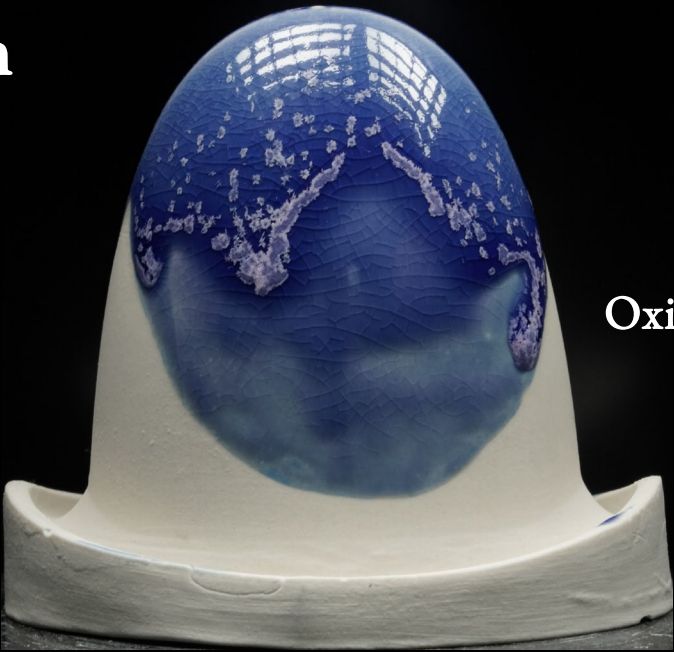
Ceramic
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Purple Rain

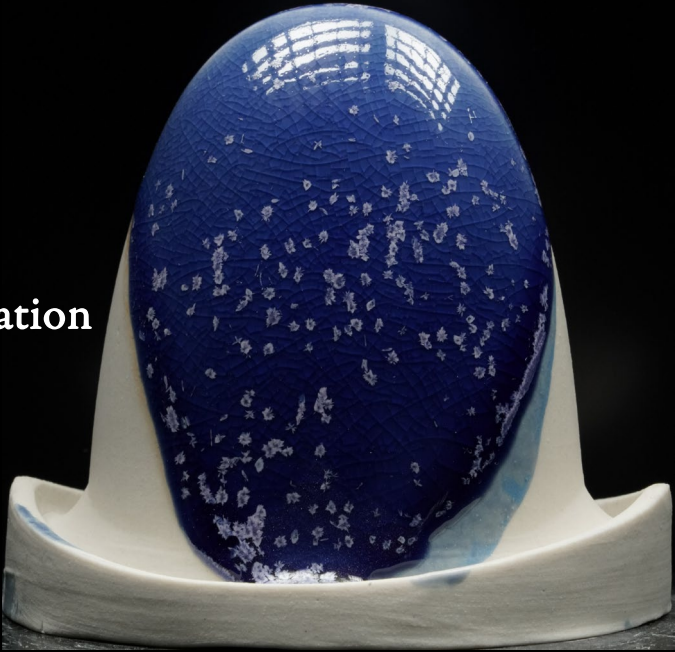
Mapping-Silica 3

062722 -31

Neph Sy	44.45
Dolomite	32.87
EPK	5.48
Flint	17.20
Cobalt Carbonate	1.11
Water	60



1-3 Second Dip



2-3 Second Dips

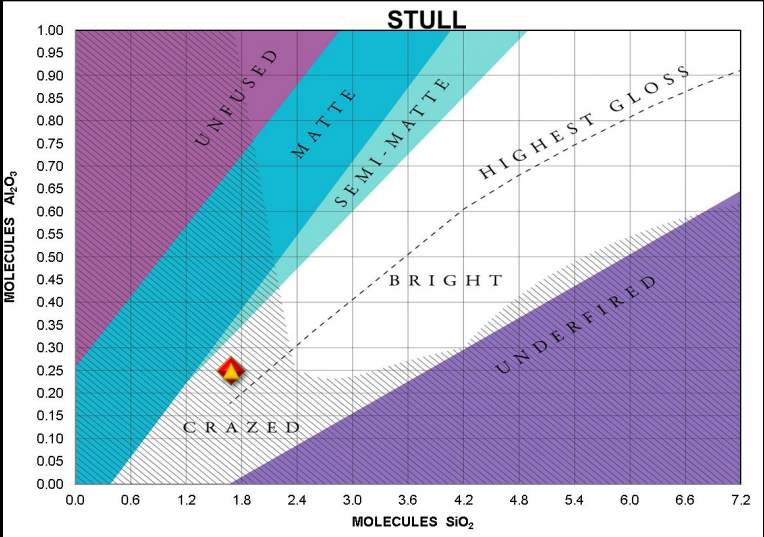
Oxidation



Reduction

UMF

SiO ₂ :Al ₂ O ₃ Ratio 6.74 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.72	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.25	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 6.74 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.69	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.25	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 0.02



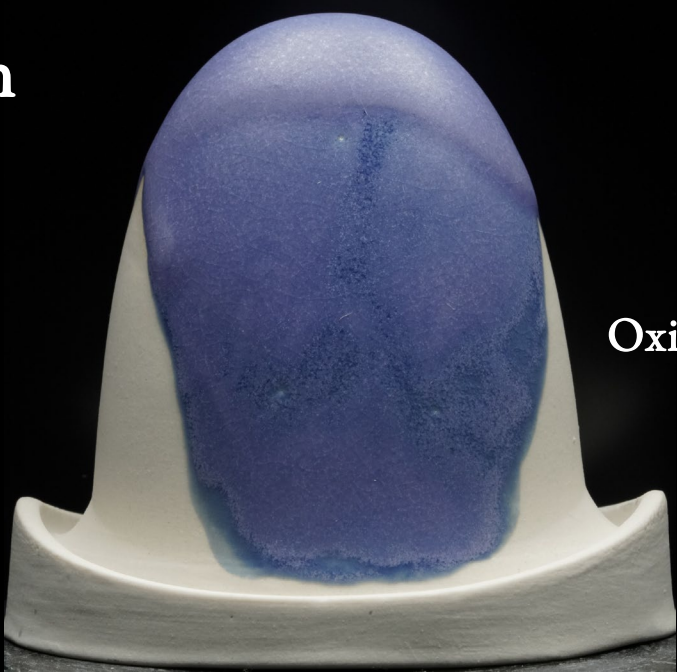
Ceramic
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Mapping-Silica 5

062722 -32

Neph Sy	37.92
Dolomite	28.04
EPK	4.67
Flint	29.36
Cobalt Carbonate	1.01
Water	60



1-3 Second Dip



2-3 Second Dips

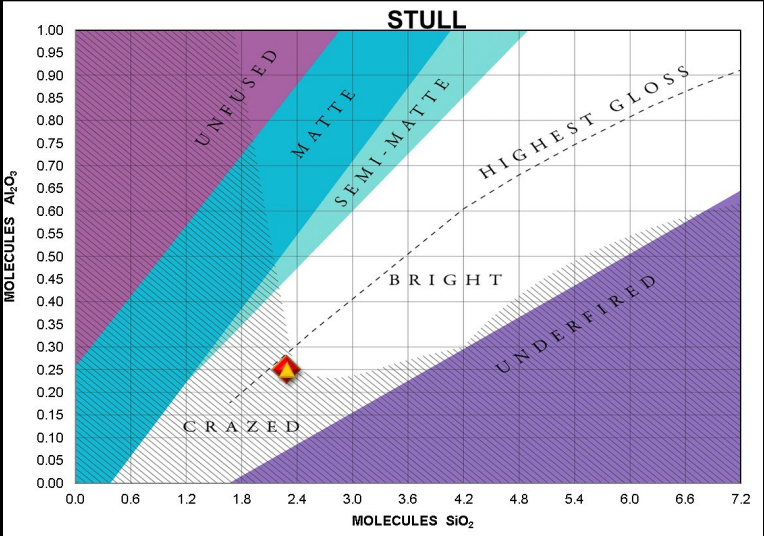


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.10 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.34	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
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 9.10 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.29	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.25	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 0.02



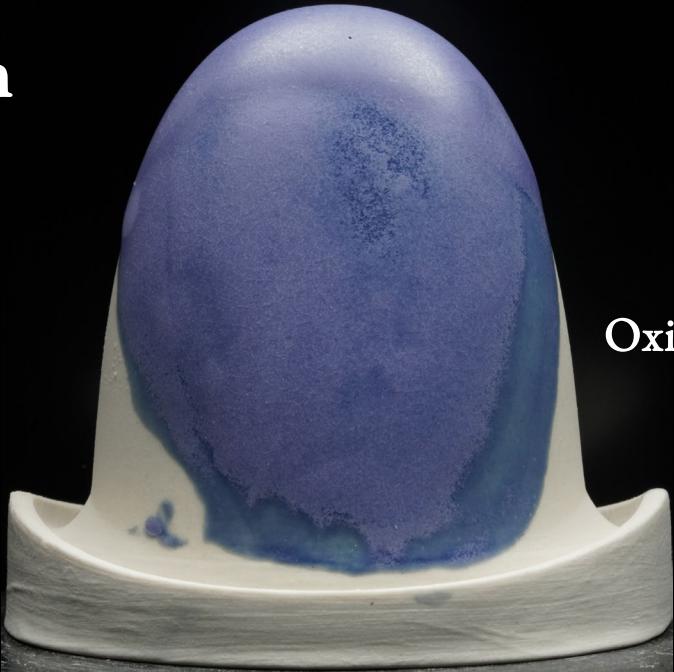
Ceramic
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Purple Rain

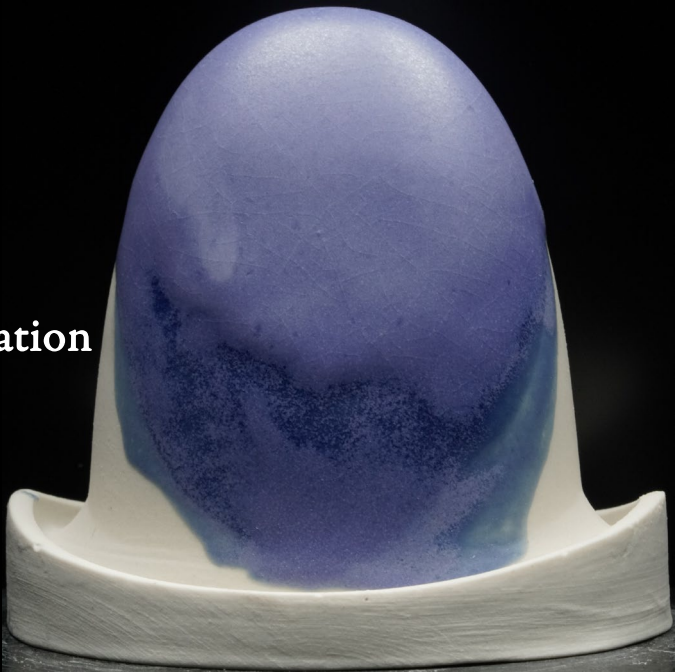
Mapping-Silica 6

062722 -33

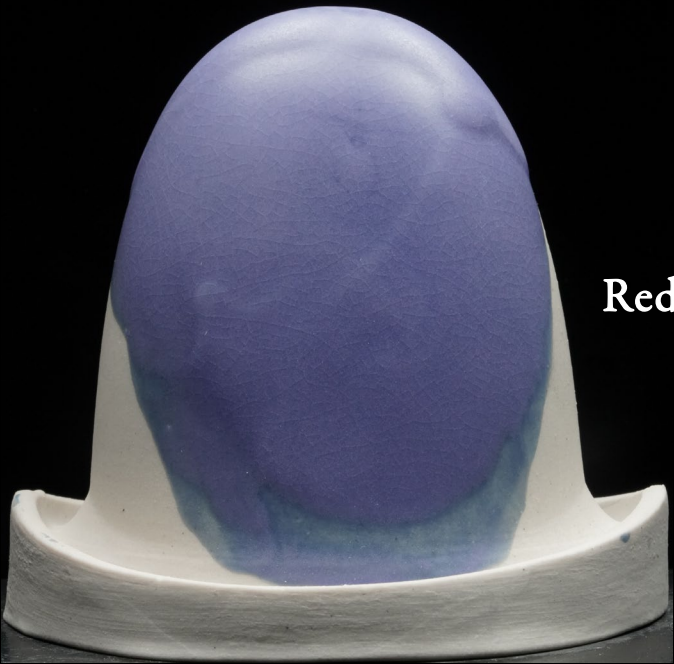
Neph Sy	35.33
Dolomite	26.13
EPK	4.35
Flint	34.19
Cobalt Carbonate	1.01
Water	60



1-3 Second Dip



2-3 Second Dips

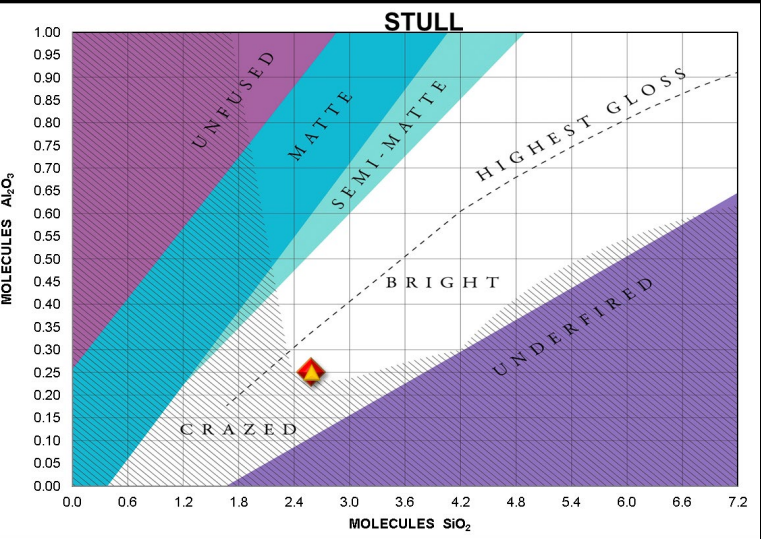


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 10.27 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.65	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
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 10.27 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.59	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.04	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.25	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 0.02



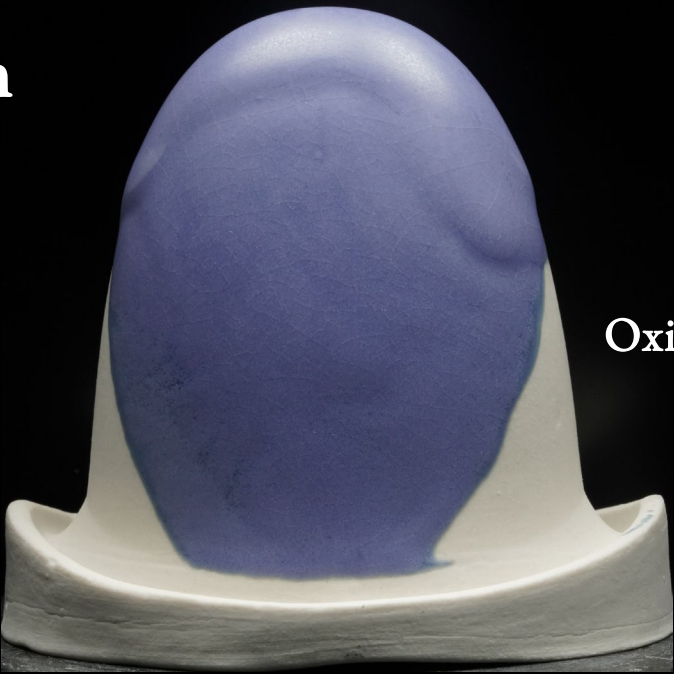
Ceramic
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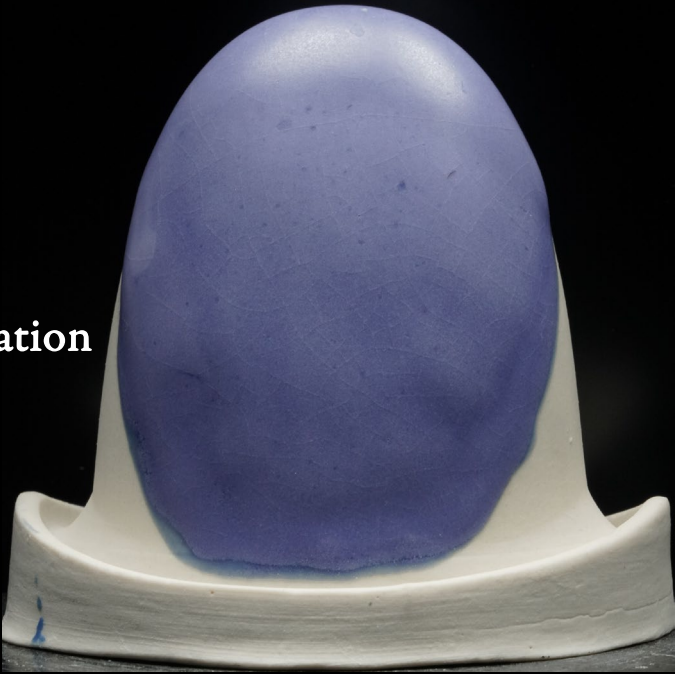
Mapping-Silica 7

062722 -34

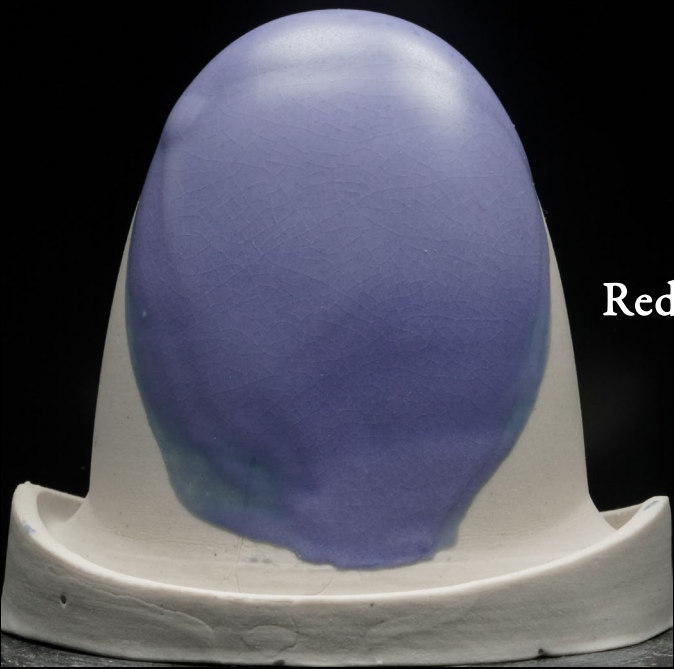
Neph Sy	33.07
Dolomite	24.46
EPK	4.08
Flint	38.40
Cobalt Carbonate	1.02
Water	60



1-3 Second Dip



2-3 Second Dips



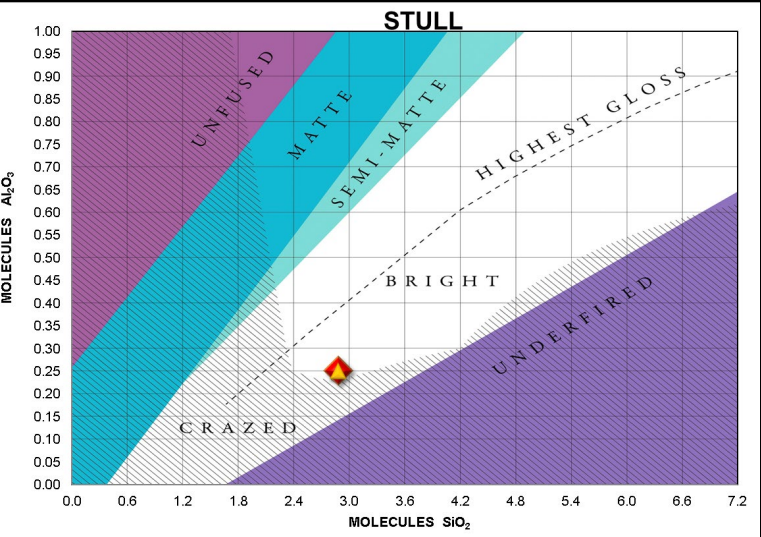
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 11.42 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.95	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
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 11.42 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.88	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.04	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.25	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 0.02



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