

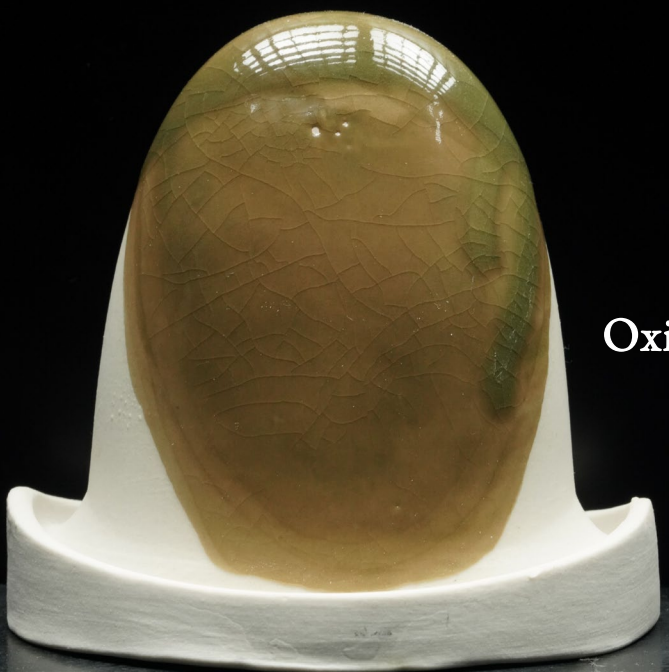
4321- Δ 10

Lab 5b-Color Wheel 2-Individual

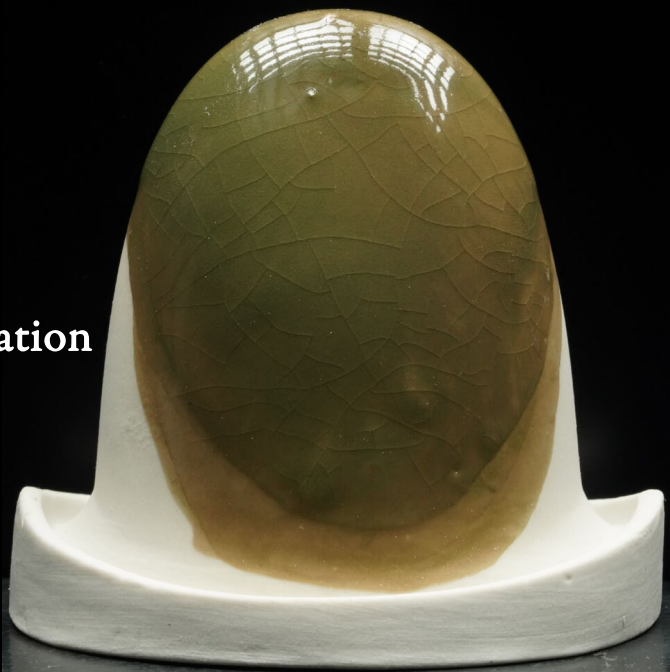
4321

Original
062322-1

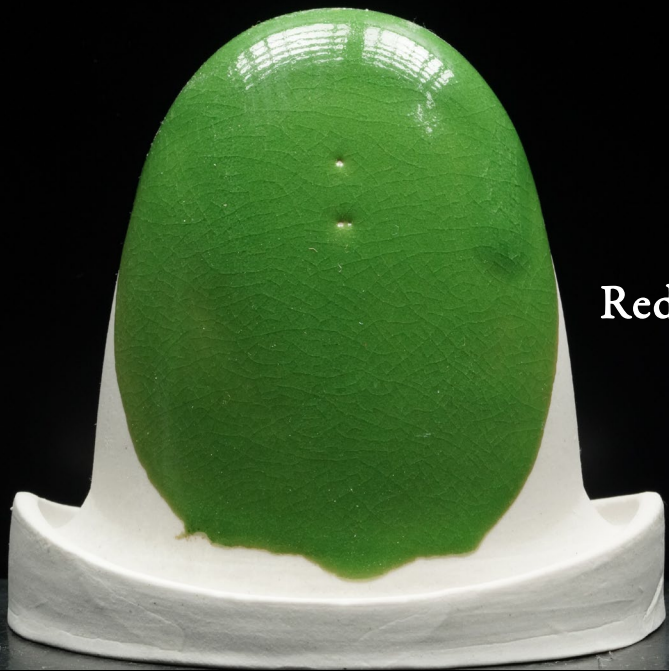
Neph Sy	40.00
Whiting	20.00
EPK	10.00
Flint	30.00
Chrome Oxide	1.00
Water	60



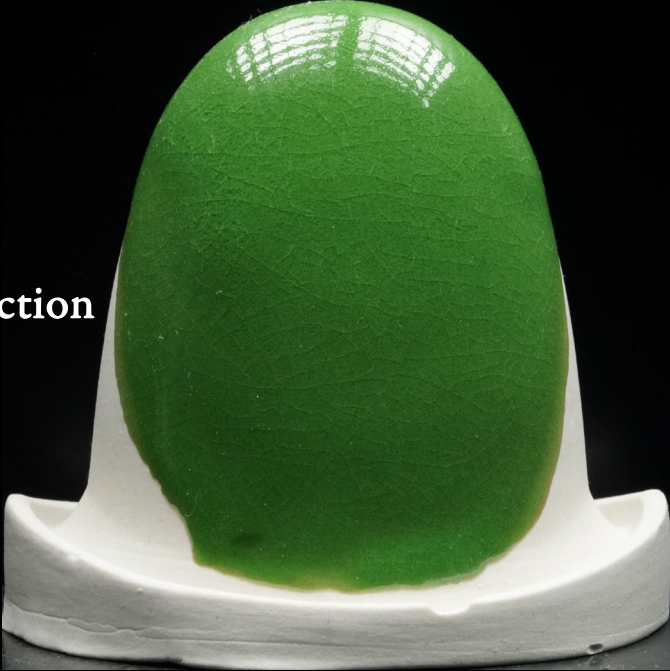
Oxidation



1-3 Second Dip



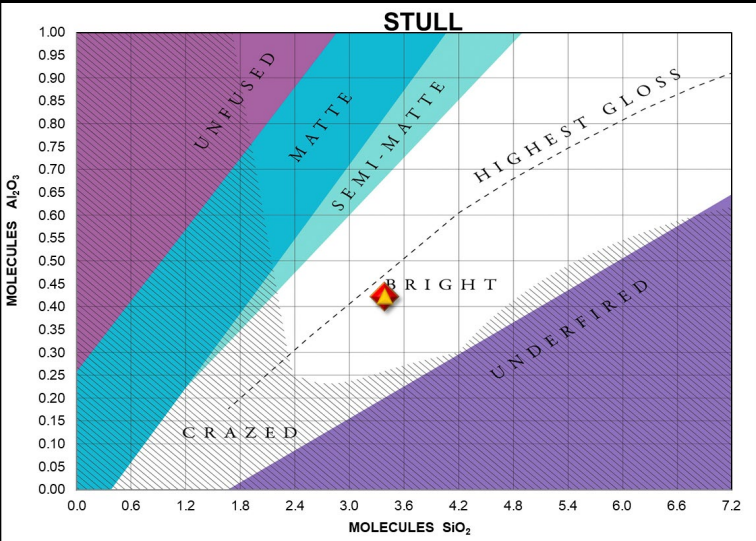
Reduction



2-3 Second Dips

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.39	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
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



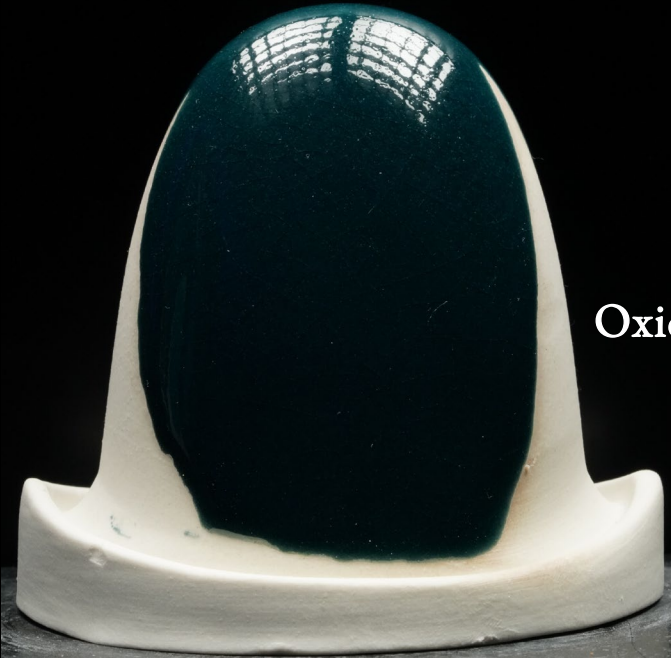
EUMF

SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.39	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
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 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

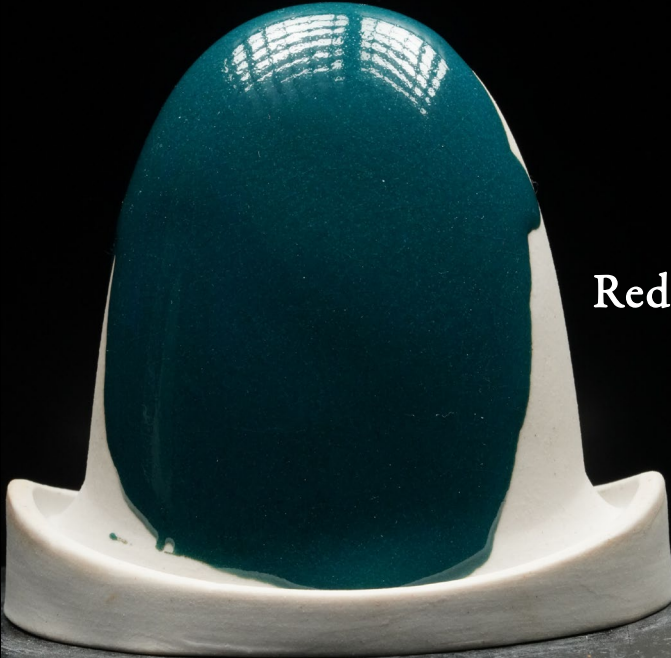


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Neph Sy	39.22
Whiting	19.61
EPK	9.80
Flint	29.41
Cobalt Carbonate	0.98
Chrome Oxide	0.98
Water	60



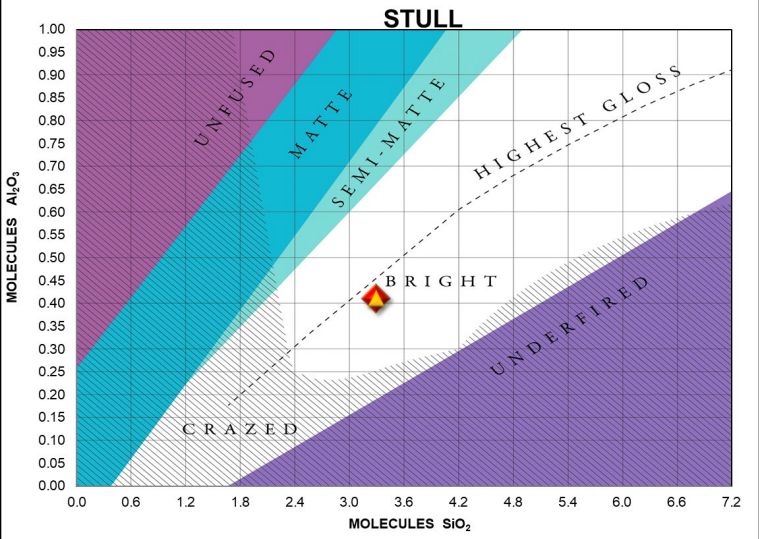
Oxidation



Reduction

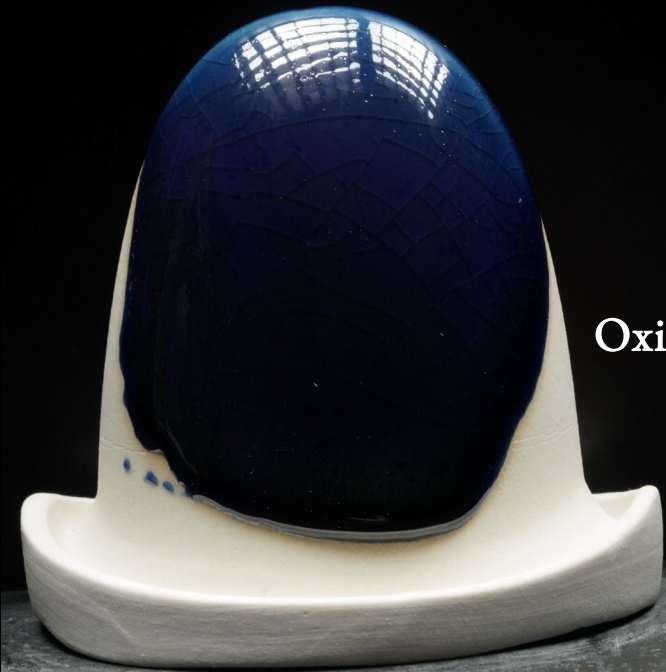


SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.30	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.22	K ₂ O 0.06	MgO 0.00	CaO 0.68
B ₂ O ₃	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.03

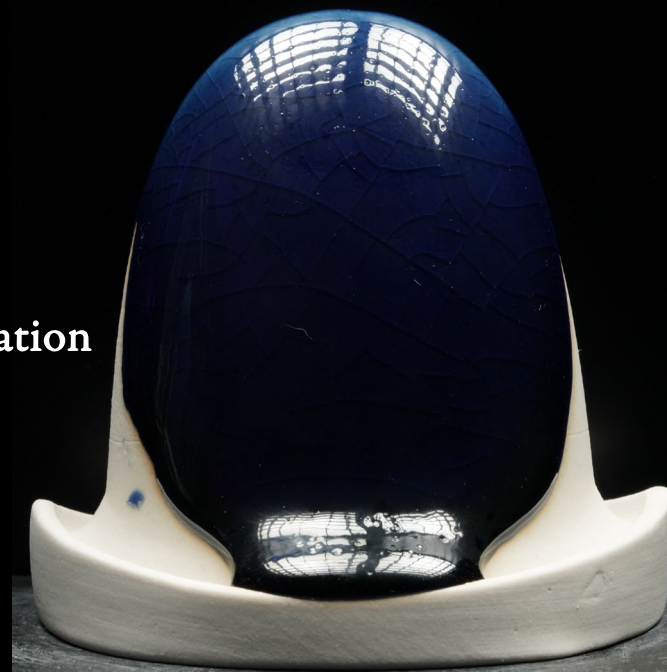


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Neph Sy	38.46
Whiting	19.23
EPK	9.62
Flint	28.85
Cobalt Carbonate	0.96
Copper Carbonate	2.88
Water	60



Oxidation



1-3 Second Dip

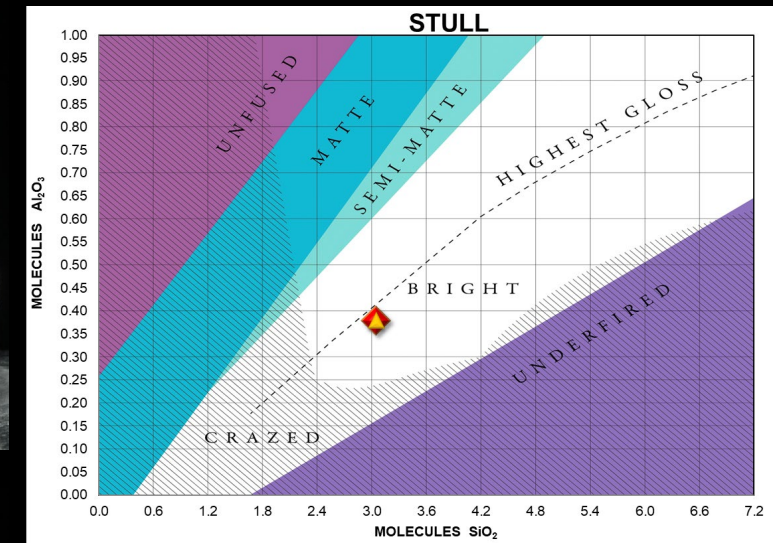
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.34		Alkaline Earths 0.66	
SiO ₂ 3.05	Collective "Al ₂ O ₃ " 0.38	Na ₂ O 0.21	K ₂ O 0.06	MgO 0.00	CaO 0.63
B ₂ O ₃	Al ₂ O ₃ 0.38	Li ₂ O	CuO 0.08	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



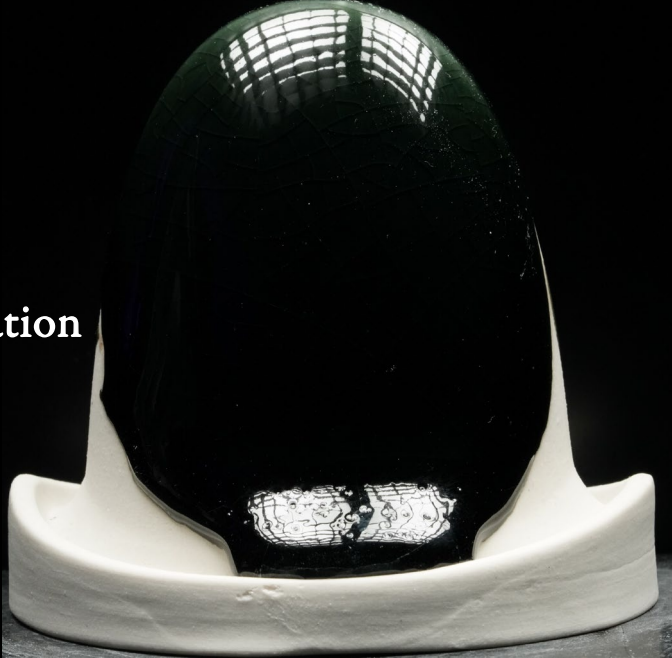
Ceramic
Materials
Workshop

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Neph Sy	37.38
Whiting	18.69
EPK	9.35
Flint	28.04
Cobalt Carbonate	0.93
Red Iron Oxide	5.61
Water	60



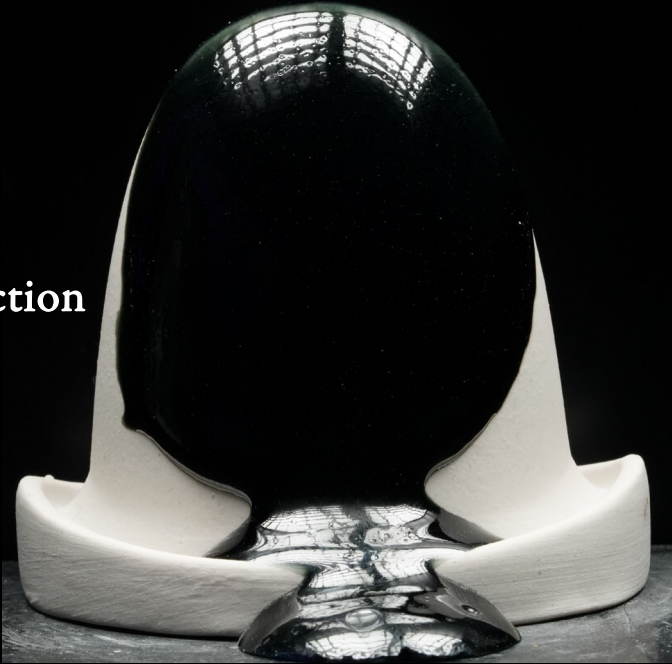
1-3 Second Dip



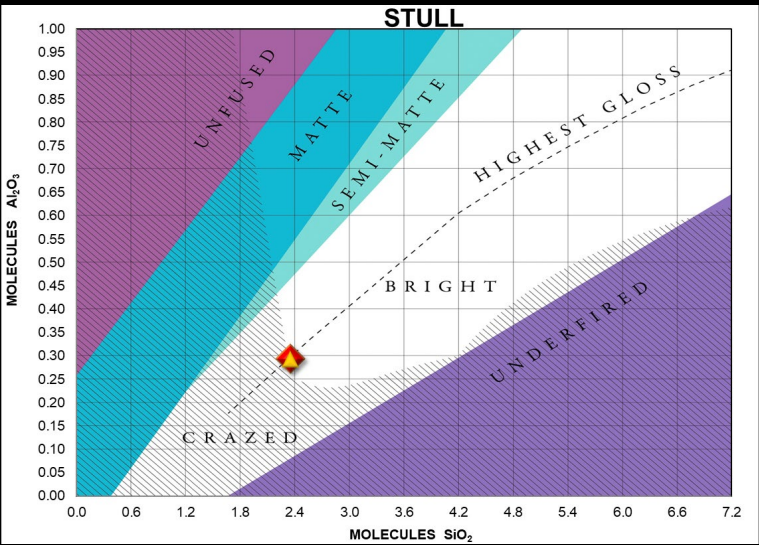
2-3 Second Dips



Reduction

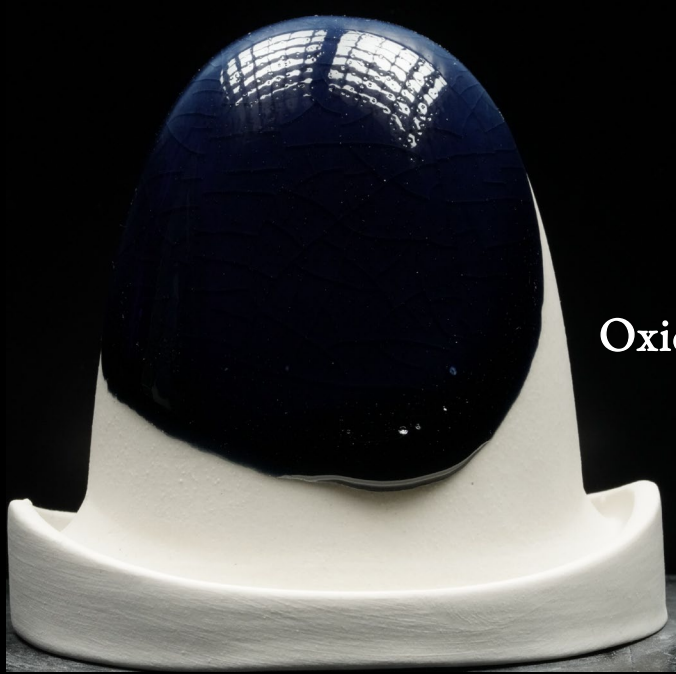


SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.35	Collective "Al ₂ O ₃ " 0.29	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.00	CaO 0.48
B ₂ O ₃	Al ₂ O ₃ 0.29	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.29
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02

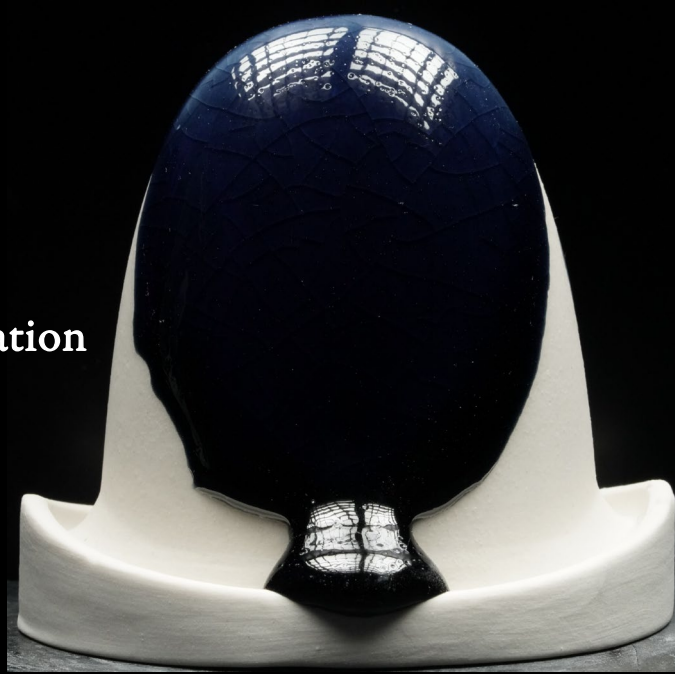


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Neph Sy	38.46
Whiting	19.23
EPK	9.62
Flint	28.85
Cobalt Carbonate	0.96
Manganese Dioxide	2.88
Water	60



1-3 Second Dip



2-3 Second Dips

Oxidation



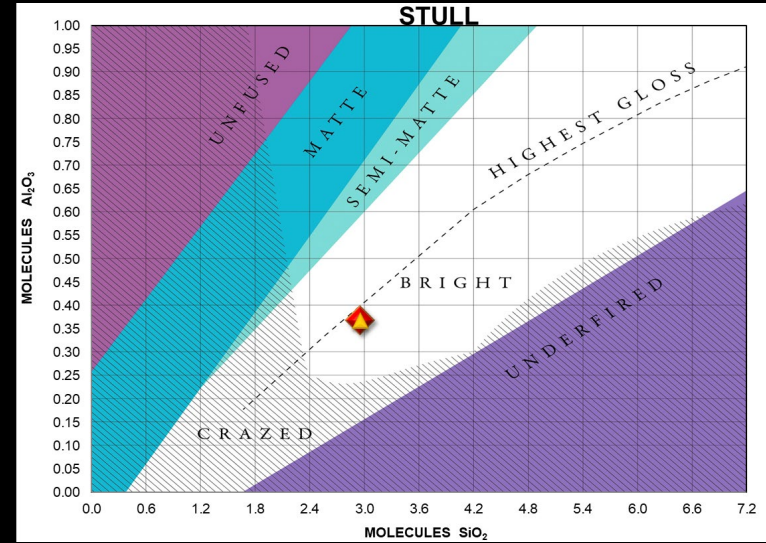
1-3 Second Dip



2-3 Second Dips

Reduction

SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO ₂ 2.96	Collective "Al ₂ O ₃ " 0.37	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.61
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 0.10	CoO 0.03



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Neph Sy	38.65
Whiting	19.32
EPK	9.66
Flint	28.99
Cobalt Carbonate	0.97
Nickel Carb (Green)	2.42
Water	60



Oxidation



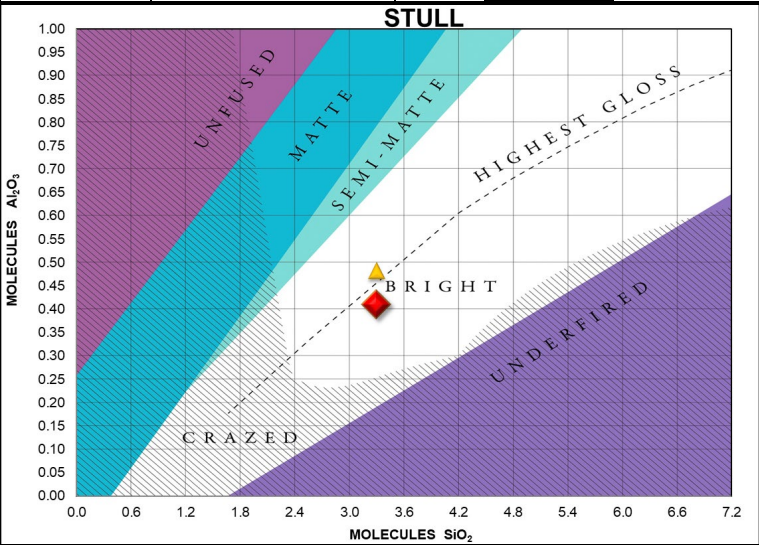
2-3 Second Dips



Reduction

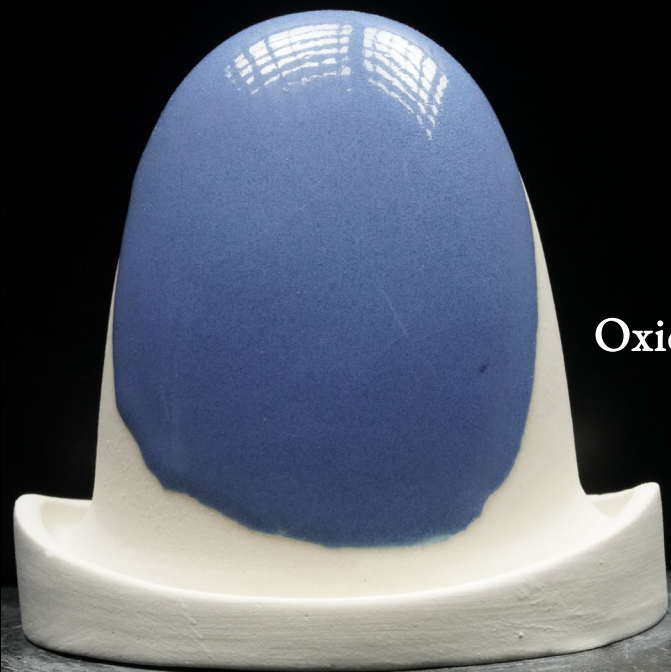


SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.30	Collective "Al ₂ O ₃ " 0.48	Na ₂ O 0.22	K ₂ O 0.06	MgO 0.00	CaO 0.68
B ₂ O ₃	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.07	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.03

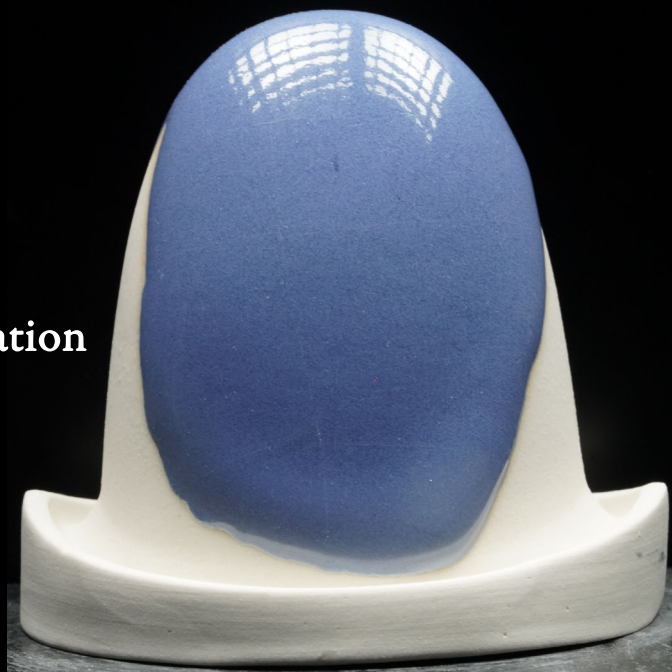


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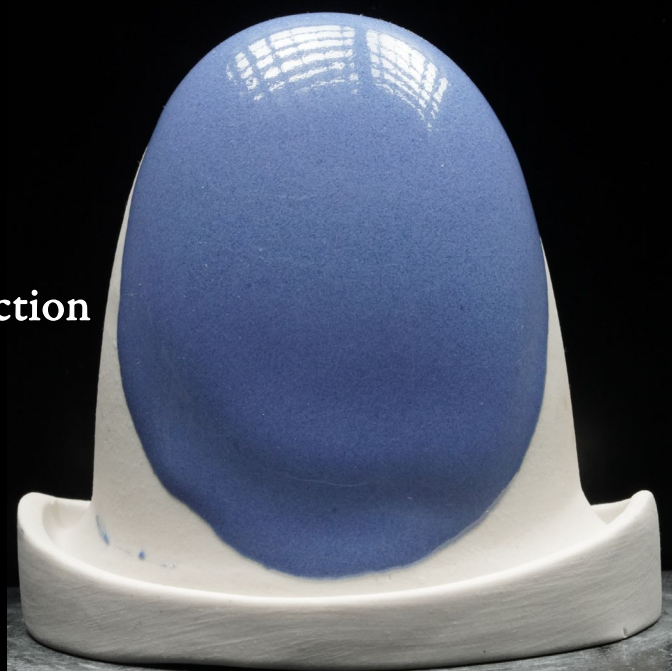
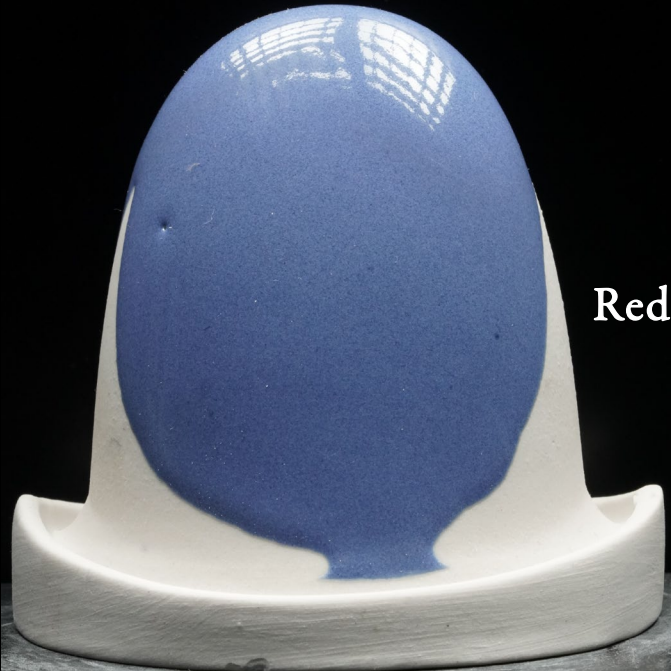
Neph Sy	37.38
Whiting	18.69
EPK	9.35
Flint	28.04
Cobalt Carbonate	0.93
Titanium Dioxide	5.61
Water	60



1-3 Second Dip



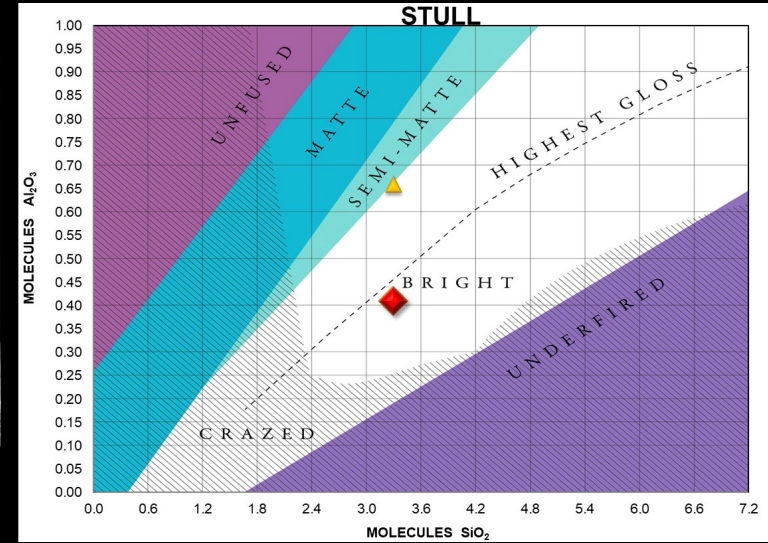
2-3 Second Dips



Oxidation

Reduction

SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.30	Collective "Al ₂ O ₃ " 0.66	Na ₂ O 0.22	K ₂ O 0.06	MgO 0.00	CaO 0.68
B ₂ O ₃	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.25	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

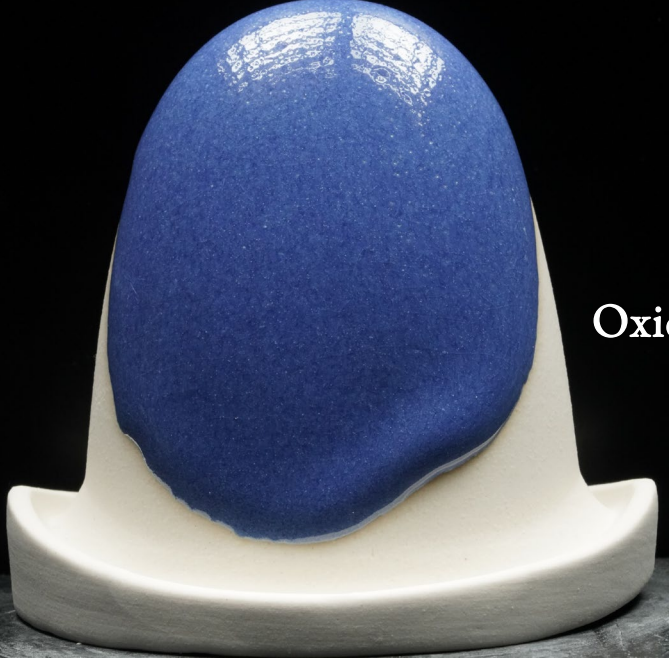


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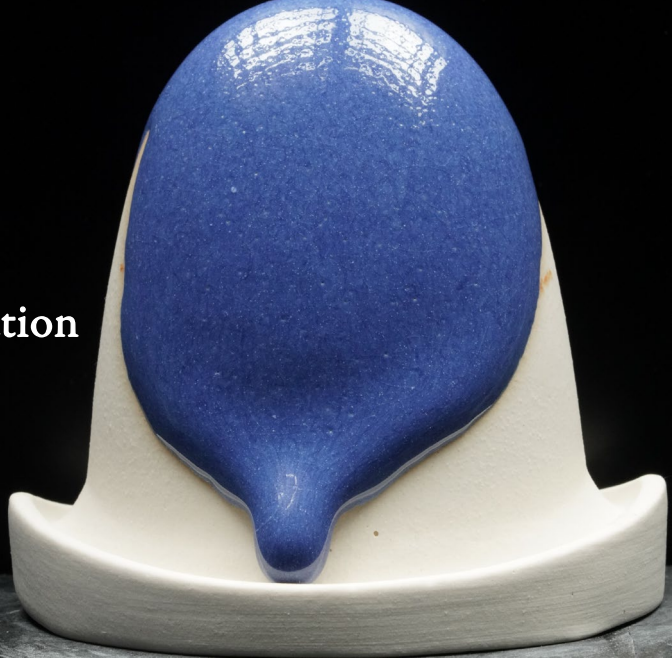
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Neph Sy	37.74
Whiting	18.87
EPK	9.43
Flint	28.30
Cobalt Carbonate	0.94
Tin Oxide	4.72
Water	60



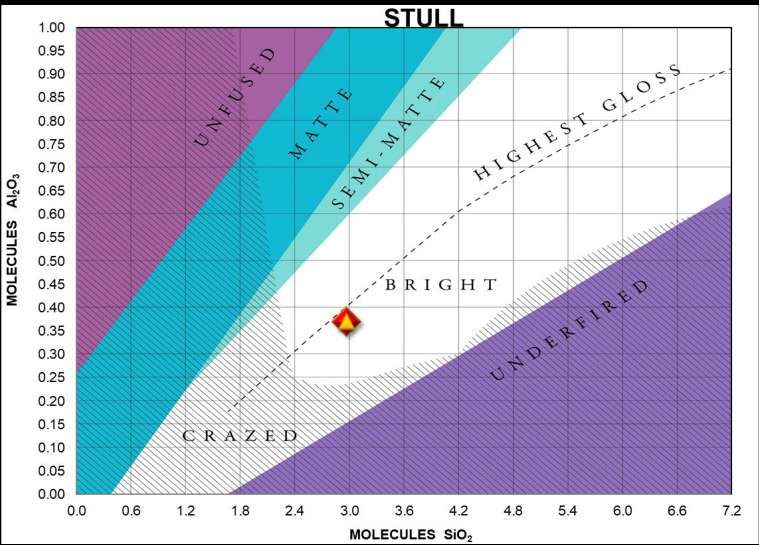
Oxidation



Reduction

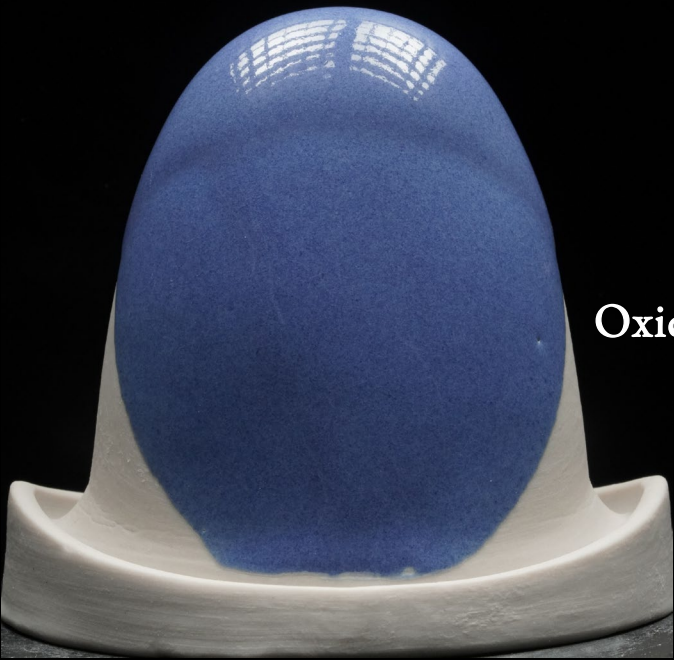


SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.36		Alkaline Earths 0.64	
SiO ₂ 2.97	Collective "Al ₂ O ₃ " 0.37	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.61
B ₂ O ₃	Al ₂ O ₃ 0.37	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂ 0.10	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.03

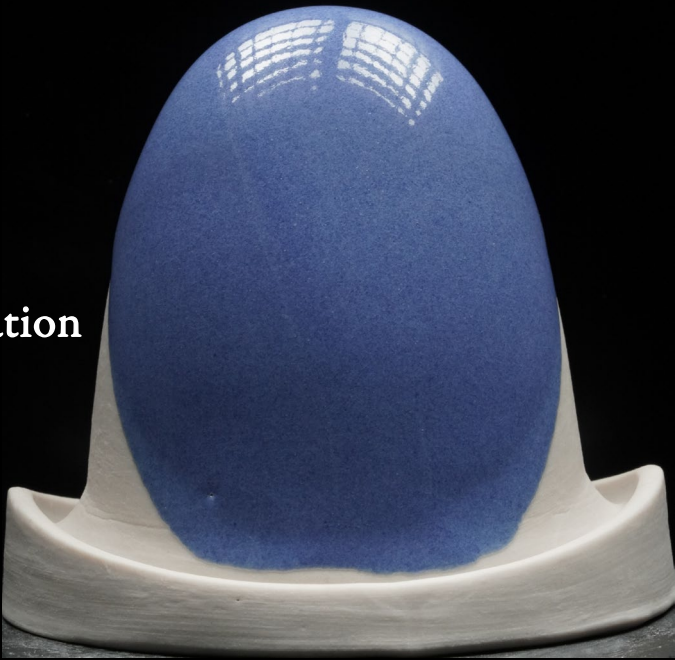


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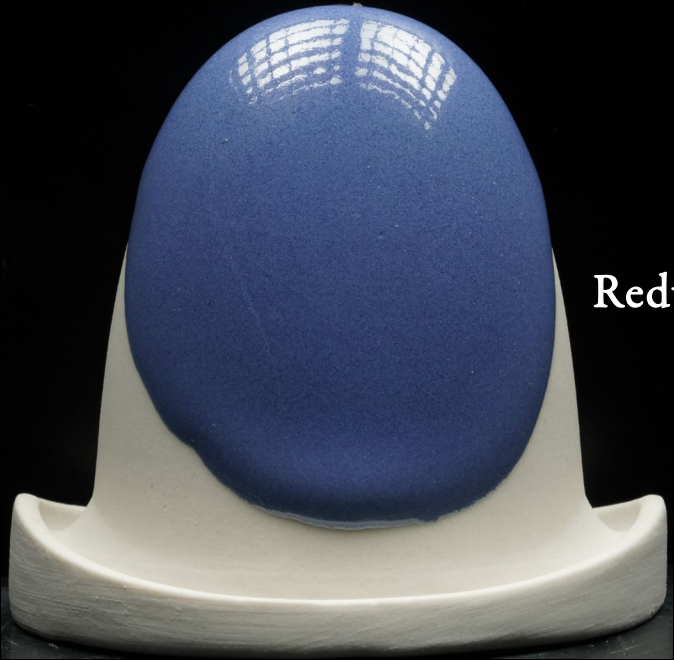
Neph Sy	36.04
Whiting	18.02
EPK	9.01
Flint	27.03
Cobalt Carbonate	0.90
Ultrox (Zircopax)	9.01
Water	60



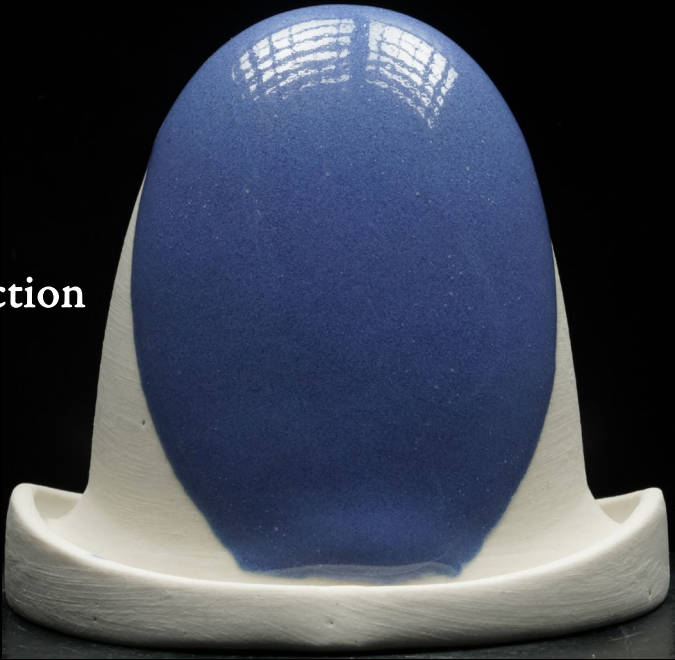
1-3 Second Dip



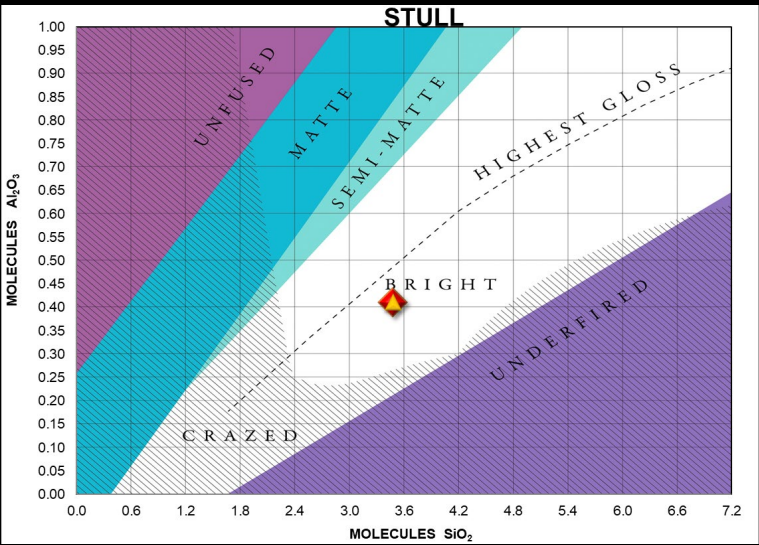
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.44 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.48	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.22	K ₂ O 0.06	MgO 0.00	CaO 0.68
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 0.03

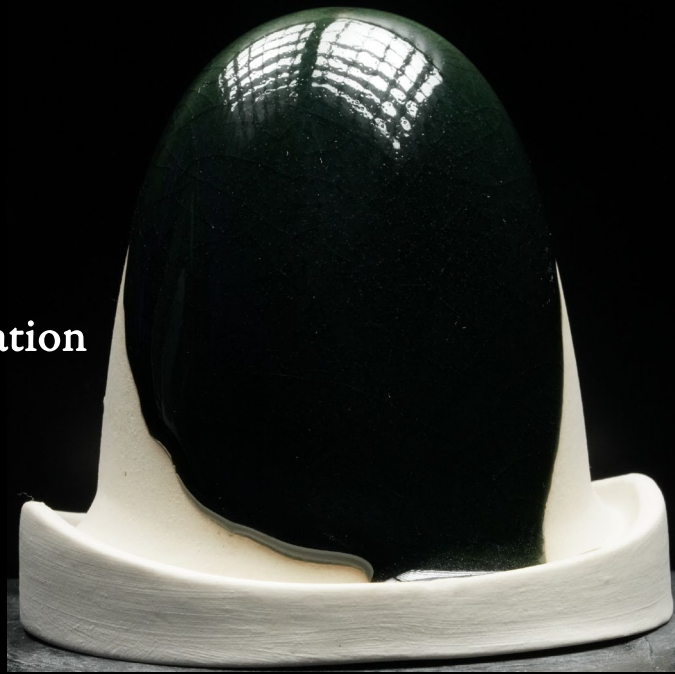


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Neph Sy	38.46
Whiting	19.23
EPK	9.62
Flint	28.85
Chrome Oxide	0.96
Copper Carbonate	2.88
Water	60

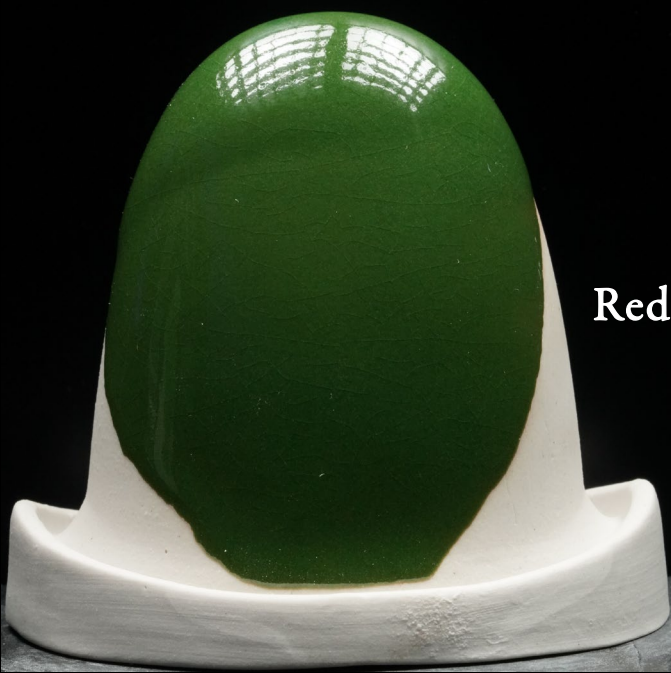


Oxidation

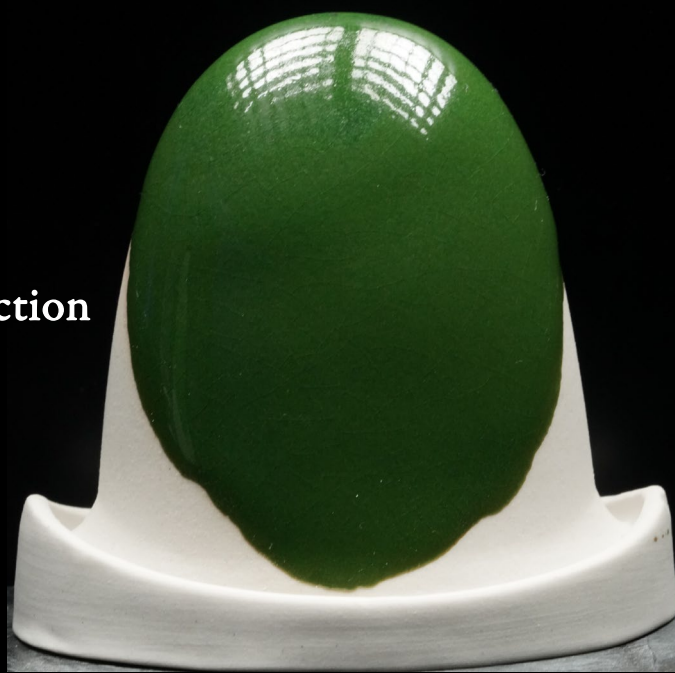


1-3 Second Dip

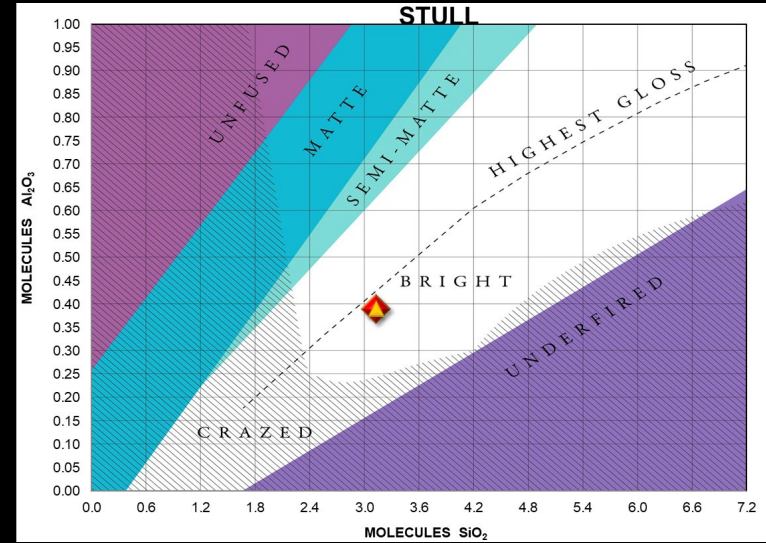
2-3 Second Dips



Reduction



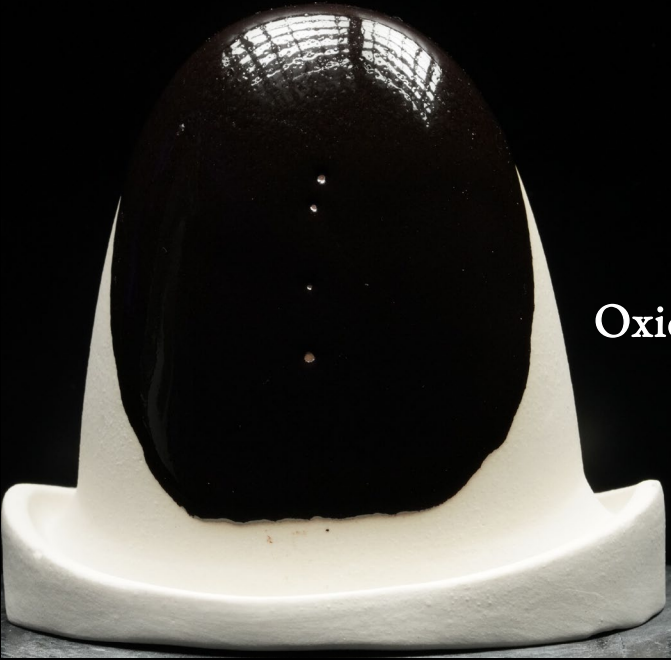
SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.35		Alkaline Earths 0.65	
SiO ₂ 3.13	Collective "Al ₂ O ₃ " 0.39	Na ₂ O 0.21	K ₂ O 0.06	MgO 0.00	CaO 0.64
B ₂ O ₃	Al ₂ O ₃ 0.39	Li ₂ O	CuO 0.08	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Neph Sy	37.38
Whiting	18.69
EPK	9.35
Flint	28.04
Chrome Oxide	0.93
Red Iron Oxide	5.61
Water	60

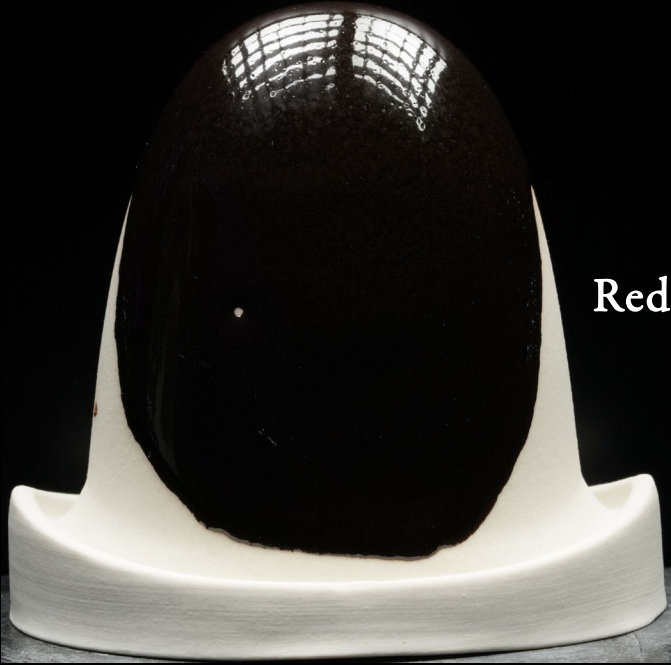


1-3 Second Dip

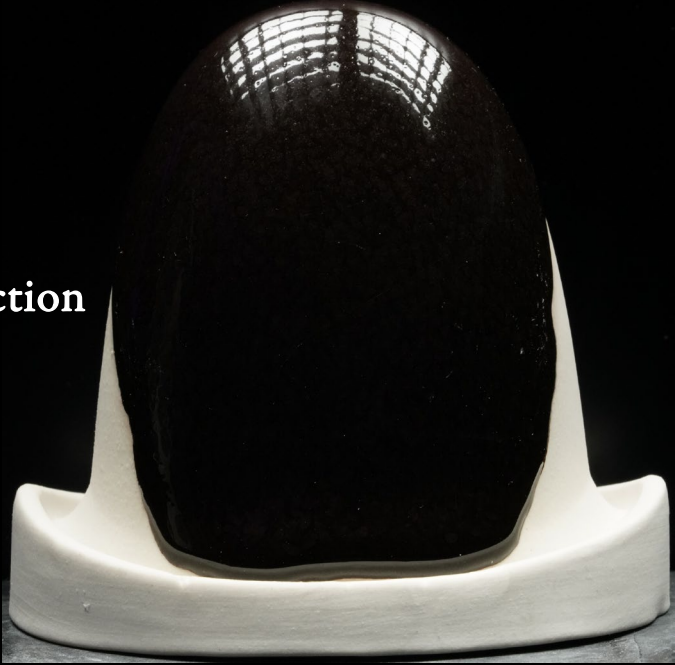


2-3 Second Dips

Oxidation



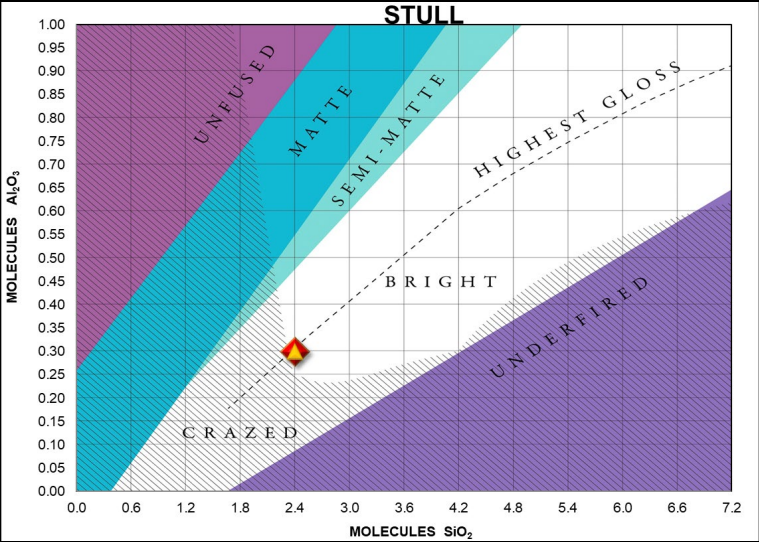
1-3 Second Dip



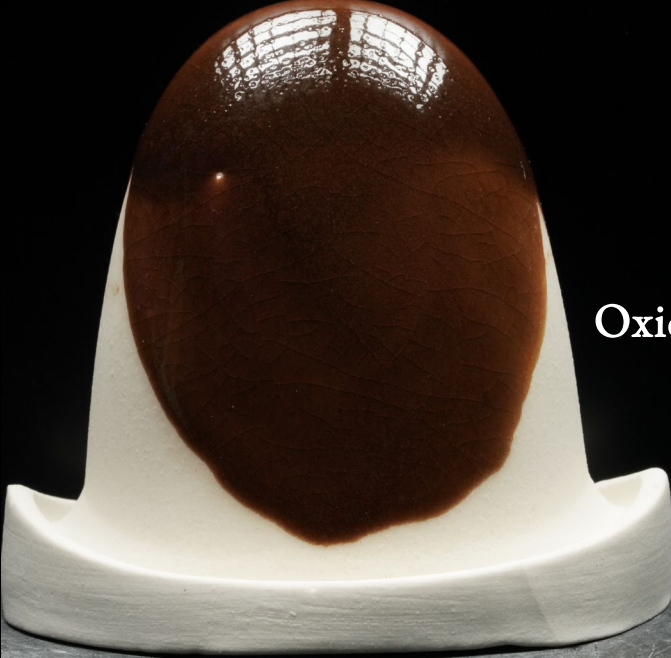
2-3 Second Dips

Reduction

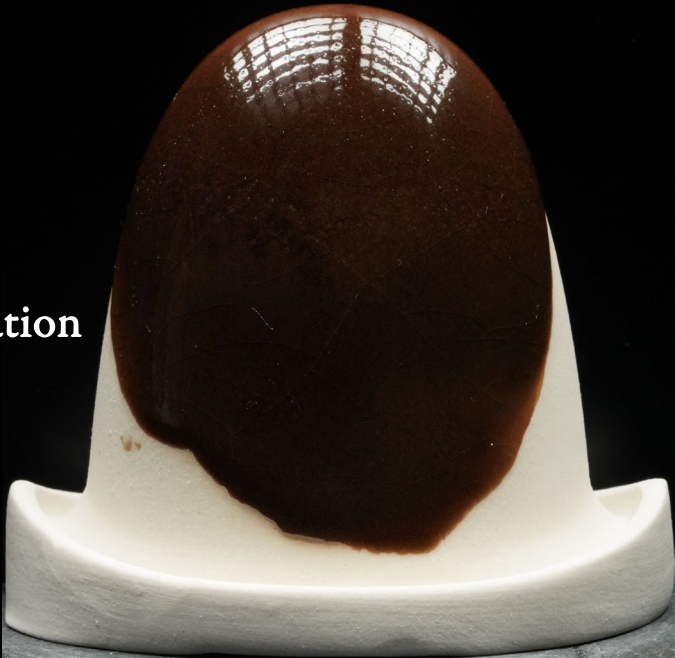
SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.40	Collective "Al ₂ O ₃ " 0.30	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.00	CaO 0.49
B ₂ O ₃	Al ₂ O ₃ 0.30	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.30
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



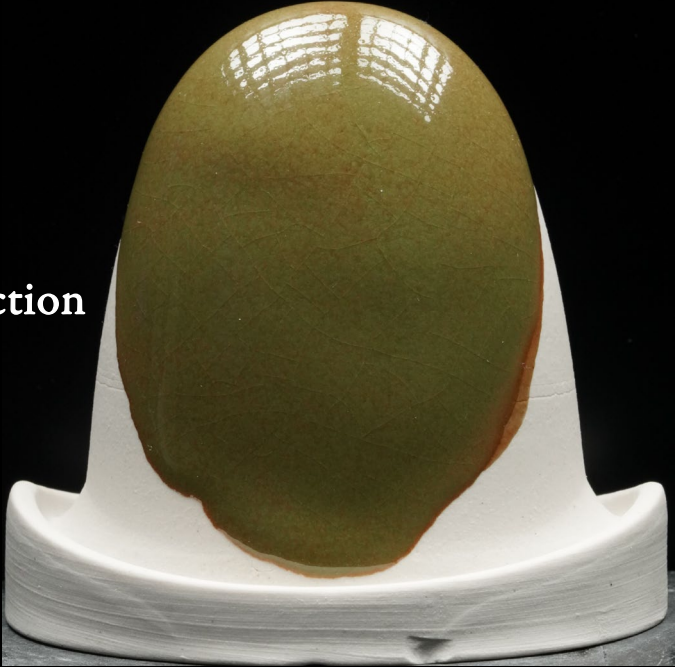
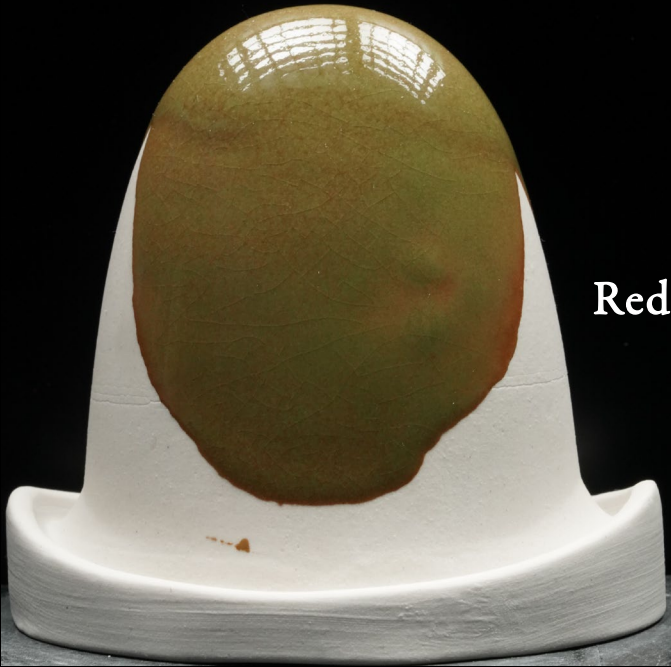
Neph Sy	38.46
Whiting	19.23
EPK	9.62
Flint	28.85
Chrome Oxide	0.96
Manganese Dioxide	2.88
Water	60



1-3 Second Dip



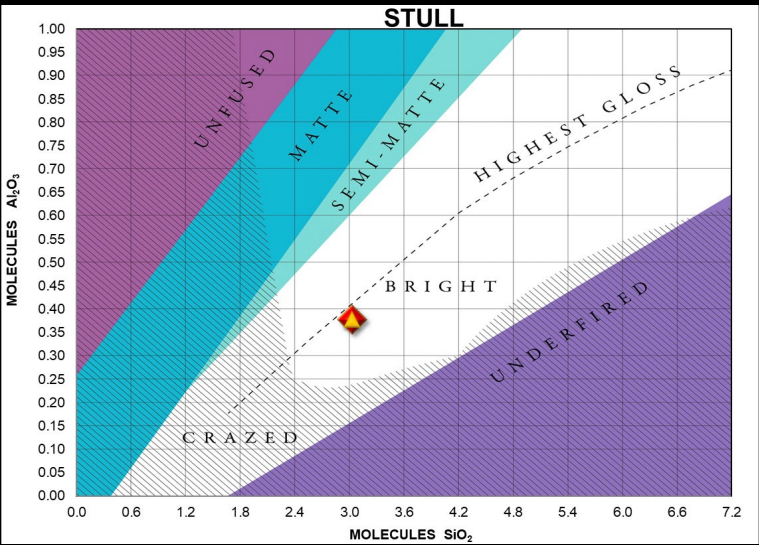
2-3 Second Dips



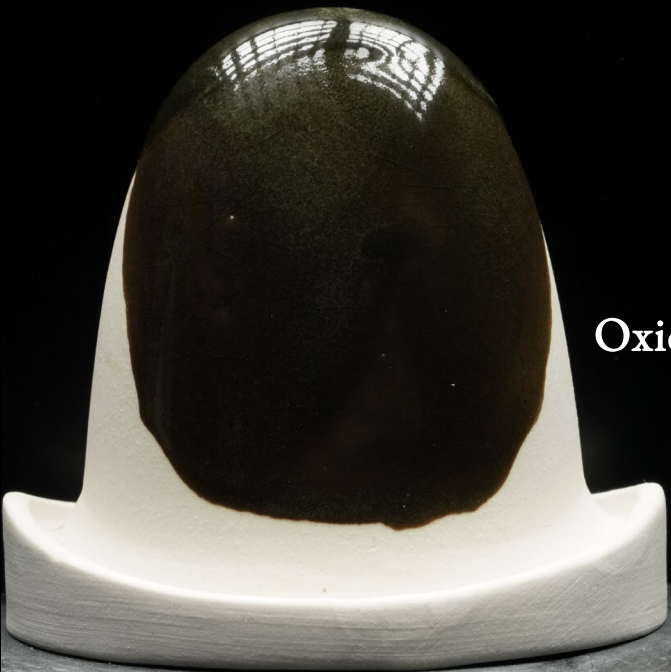
Oxidation

Reduction

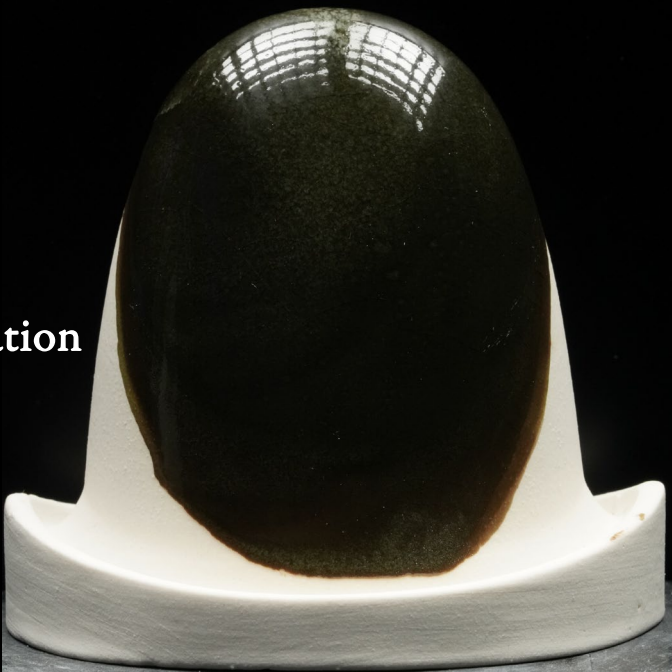
SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO ₂ 3.03	Collective "Al ₂ O ₃ " 0.38	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.62
B ₂ O ₃	Al ₂ O ₃ 0.38	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂ 0.11	CoO



Neph Sy	38.65
Whiting	19.32
EPK	9.66
Flint	28.99
Chrome Oxide	0.97
Nickel Carb (Green)	2.42
Water	60



1-3 Second Dip



2-3 Second Dips

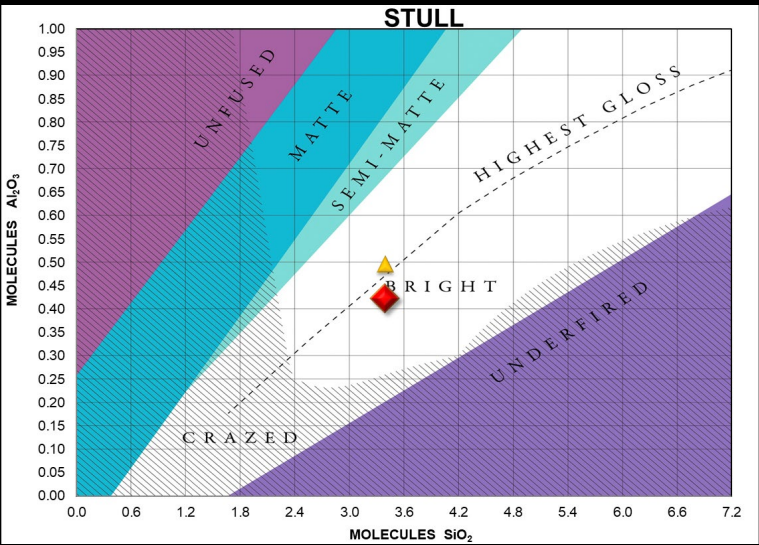


Reduction



Oxidation

SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.39	Collective "Al ₂ O ₃ " 0.50	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.42	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.07	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Neph Sy	37.38
Whiting	18.69
EPK	9.35
Flint	28.04
Chrome Oxide	0.93
Titanium Dioxide	5.61
Water	60



Oxidation

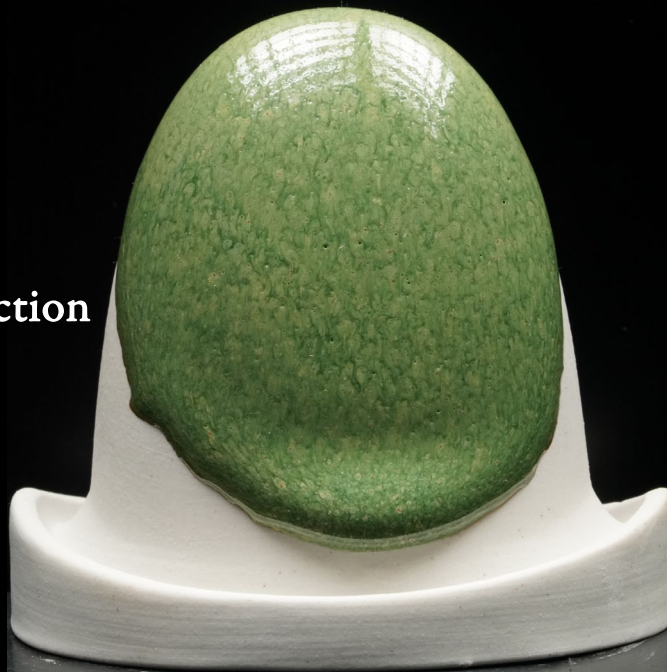


1-3 Second Dip

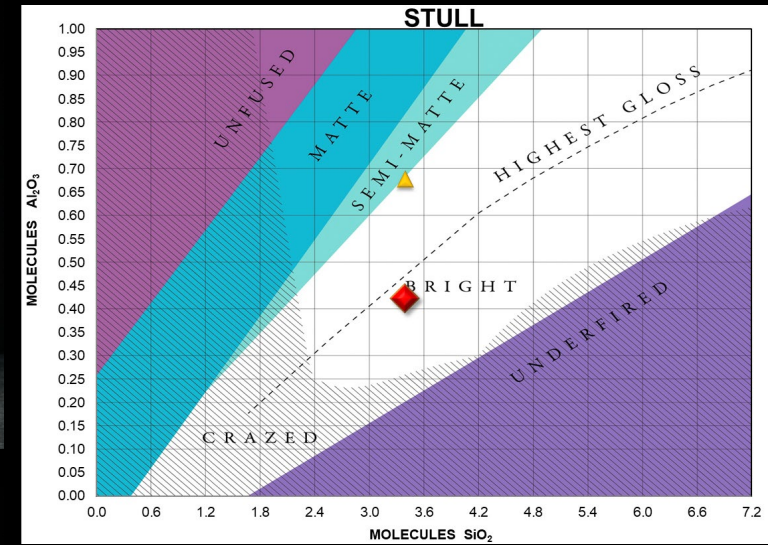
2-3 Second Dips



Reduction



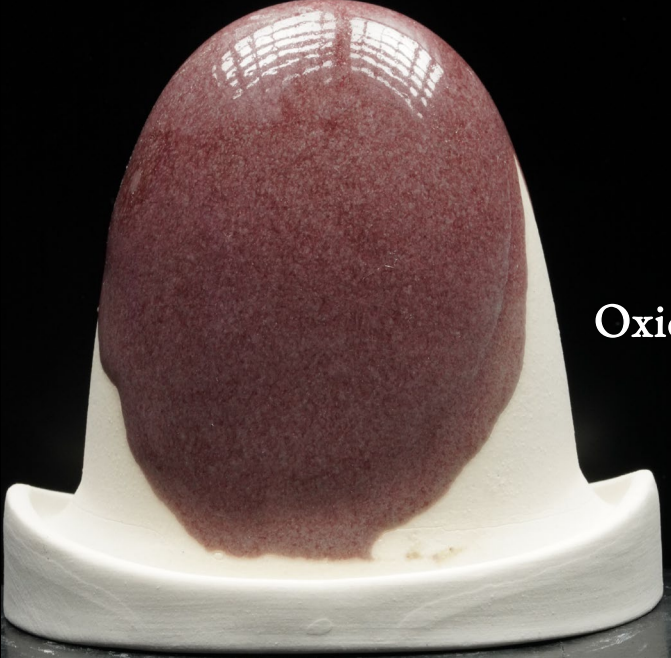
SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.39	Collective "Al ₂ O ₃ " 0.68	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.42	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.26	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



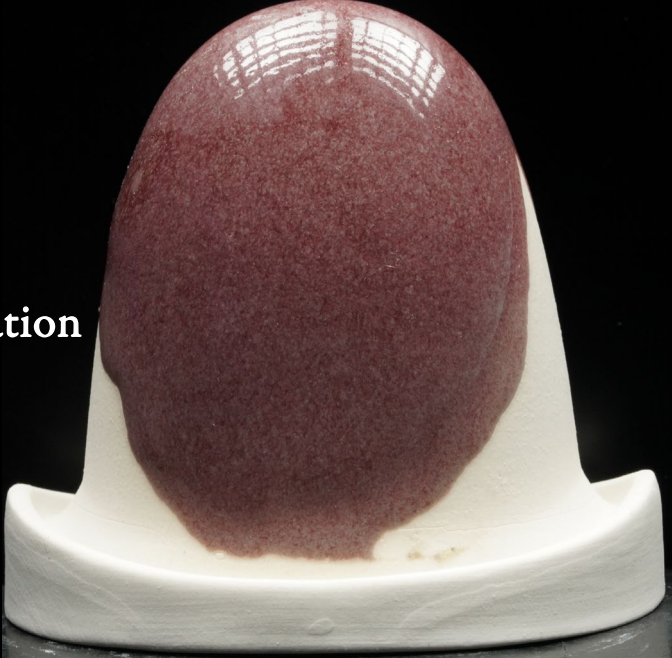
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Neph Sy	37.74
Whiting	18.87
EPK	9.43
Flint	28.30
Chrome Oxide	0.94
Tin Oxide	4.72
Water	60



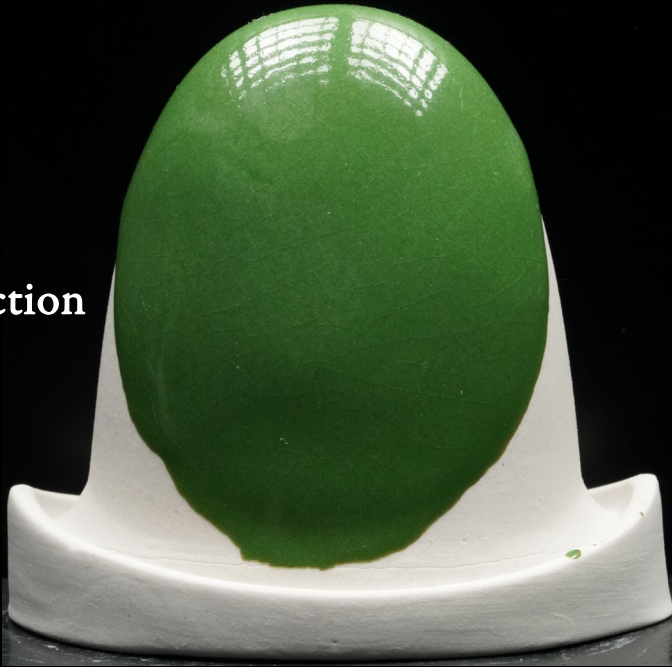
1-3 Second Dip



2-3 Second Dips

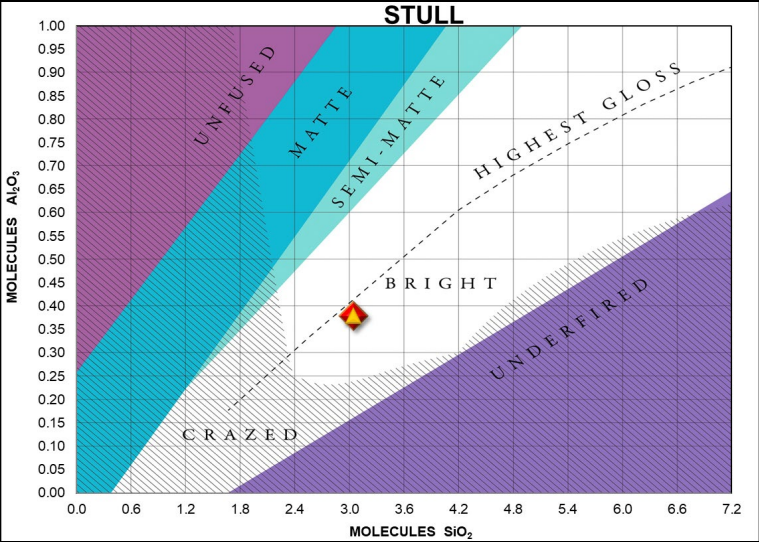


Reduction



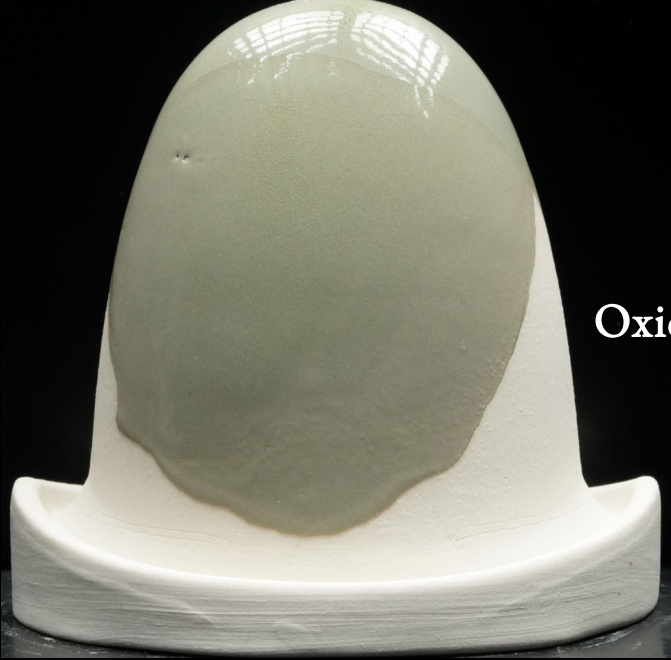
Oxidation

SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.37		Alkaline Earths 0.63	
SiO ₂ 3.04	Collective "Al ₂ O ₃ " 0.38	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.62
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 0.10	ZnO	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

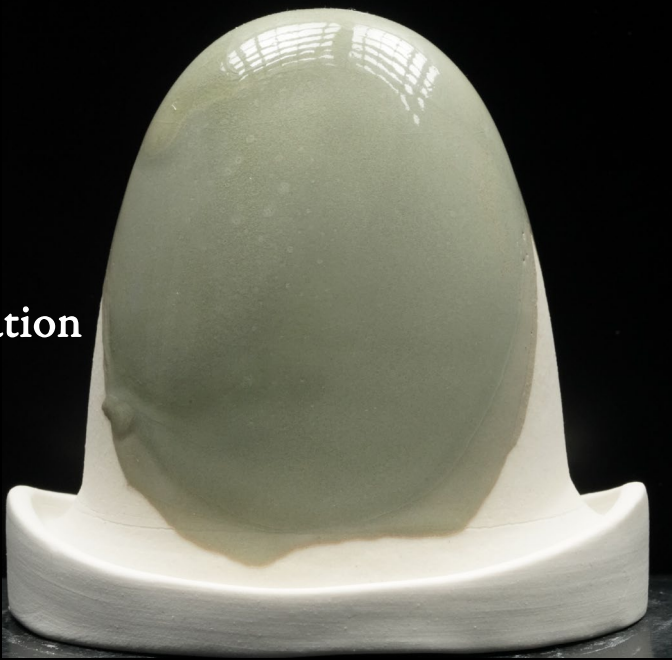


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Neph Sy	36.04
Whiting	18.02
EPK	9.01
Flint	27.03
Chrome Oxide	0.90
Ultrox (Zircopax)	9.01
Water	60



Oxidation



1-3 Second Dip

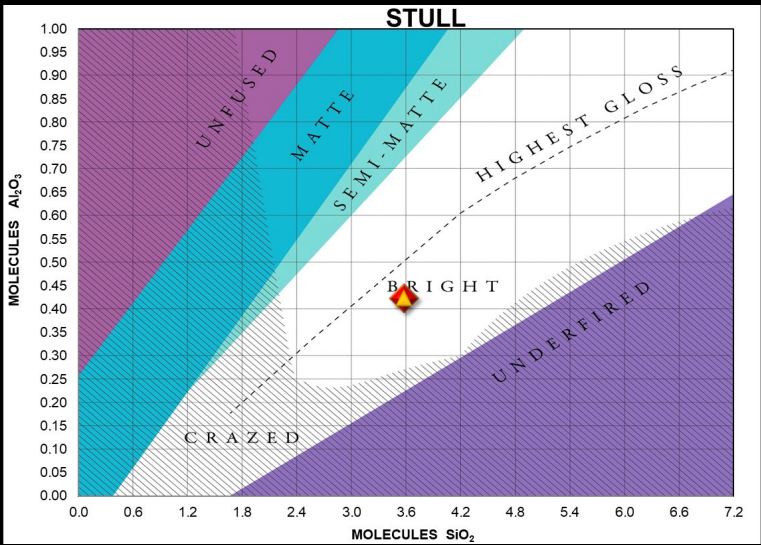
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.44 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.58	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
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 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

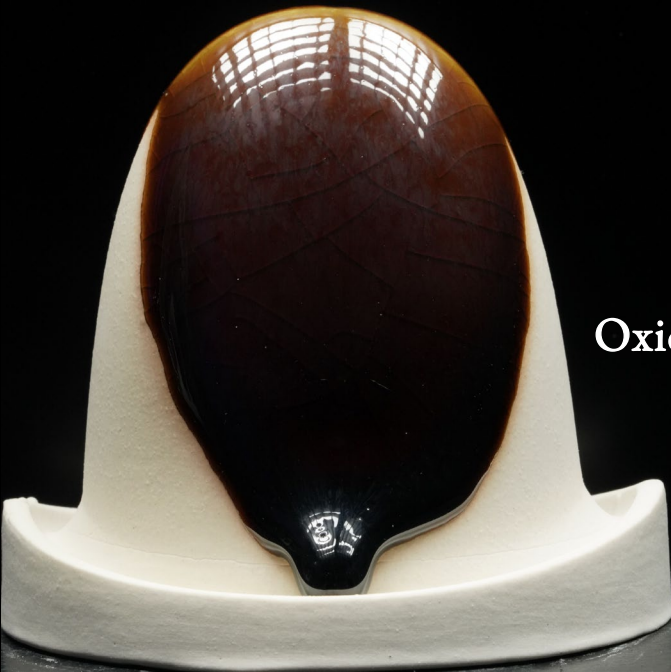


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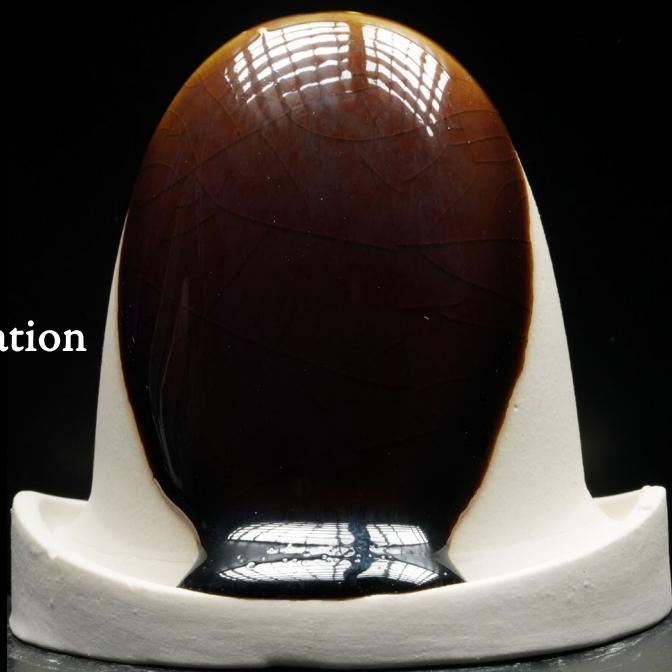
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Neph Sy	36.70
Whiting	18.35
EPK	9.17
Flint	27.52
Copper Carbonate	2.75
Red Iron Oxide	5.50
Water	60



Oxidation



1-3 Second Dip

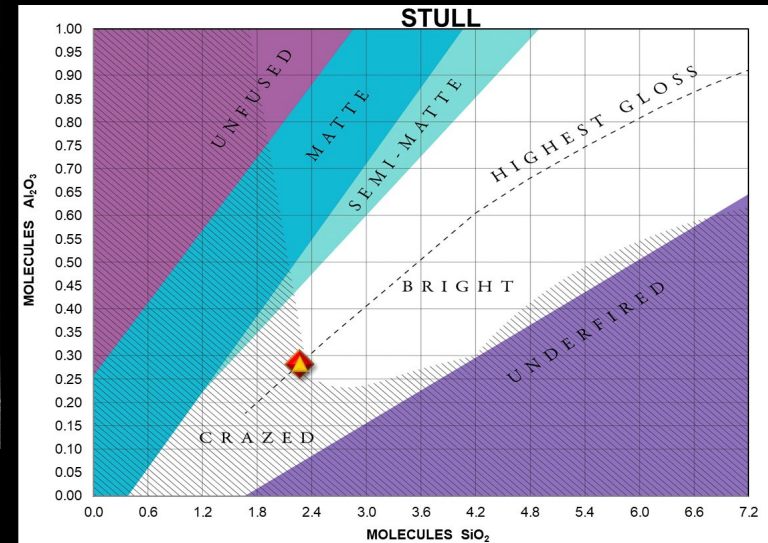
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 2.27	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.15	K ₂ O 0.04	MgO 0.00	CaO 0.47
B ₂ O ₃	Al ₂ O ₃ 0.28	Li ₂ O	CuO 0.06	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.28
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

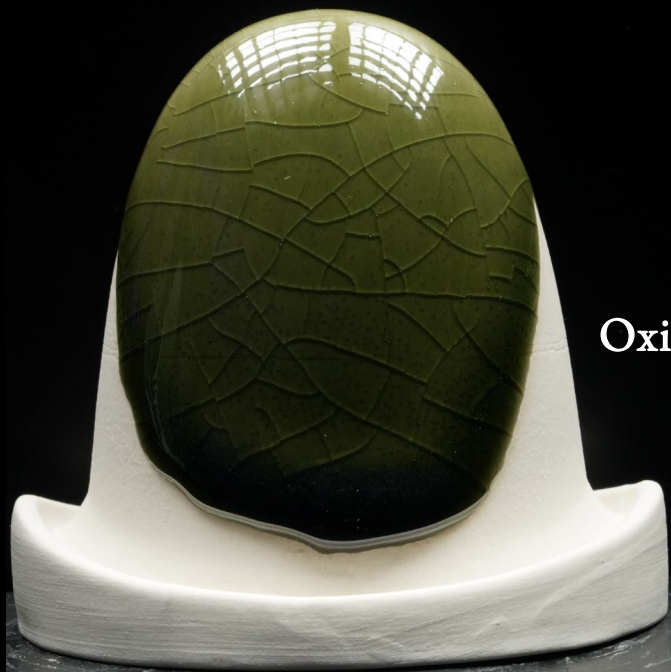


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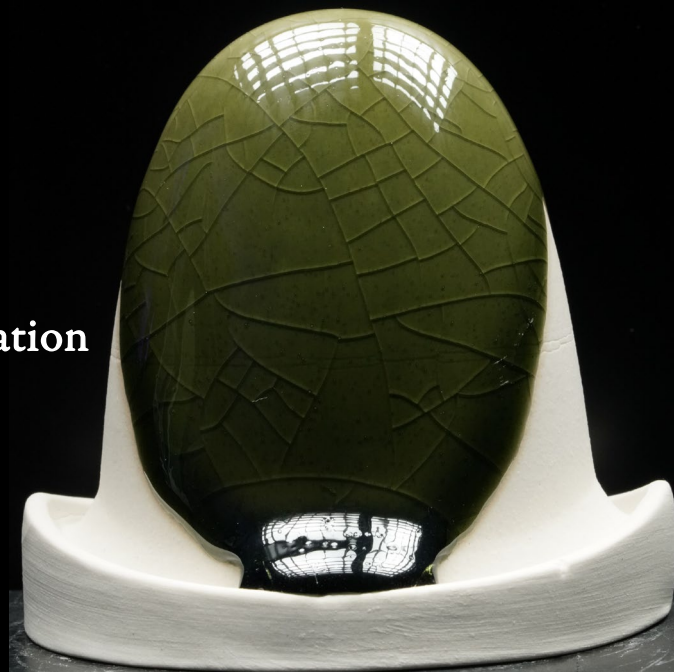
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Neph Sy	37.74
Whiting	18.87
EPK	9.43
Flint	28.30
Copper Carbonate	2.83
Manganese Dioxide	2.83
Water	60



Oxidation



1-3 Second Dip

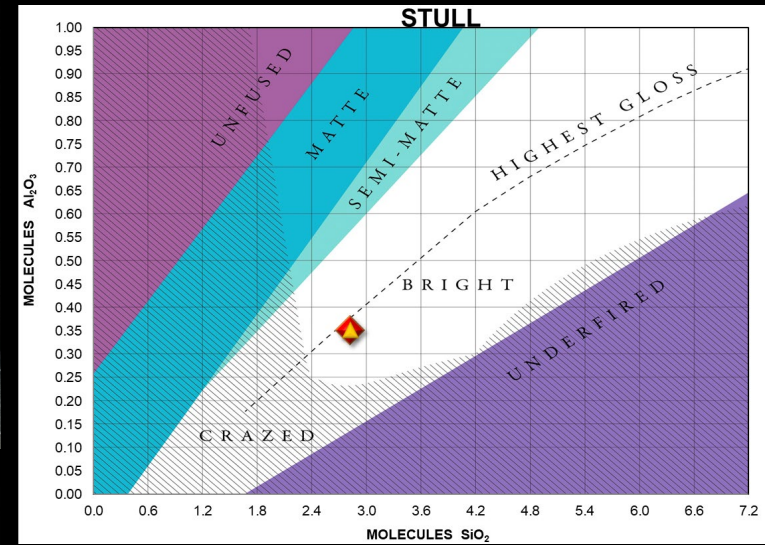
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.31		Alkaline Earths 0.69	
SiO ₂ 2.82	Collective "Al ₂ O ₃ " 0.35	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.00	CaO 0.58
B ₂ O ₃	Al ₂ O ₃ 0.35	Li ₂ O	CuO 0.07	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 0.10	CoO

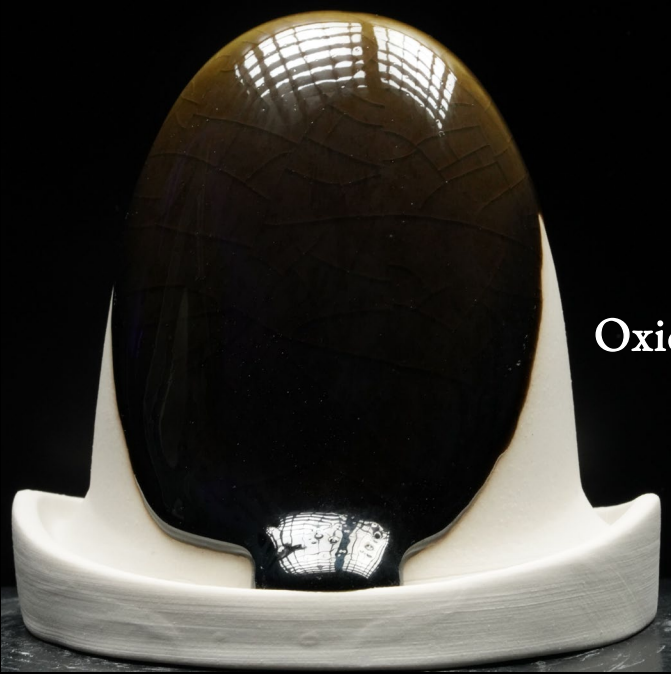


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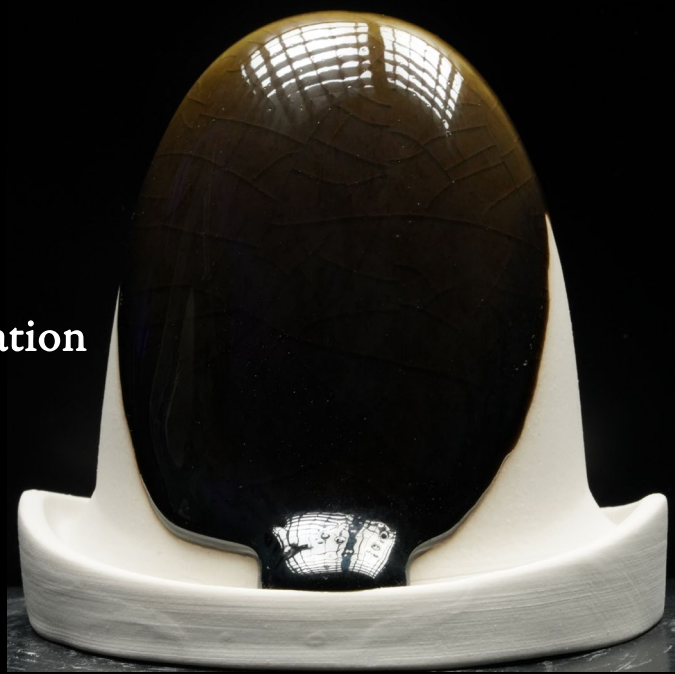
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Neph Sy	37.91
Whiting	18.96
EPK	9.48
Flint	28.44
Copper Carbonate	2.84
Nickel Carb (Green)	2.37
Water	60



Oxidation

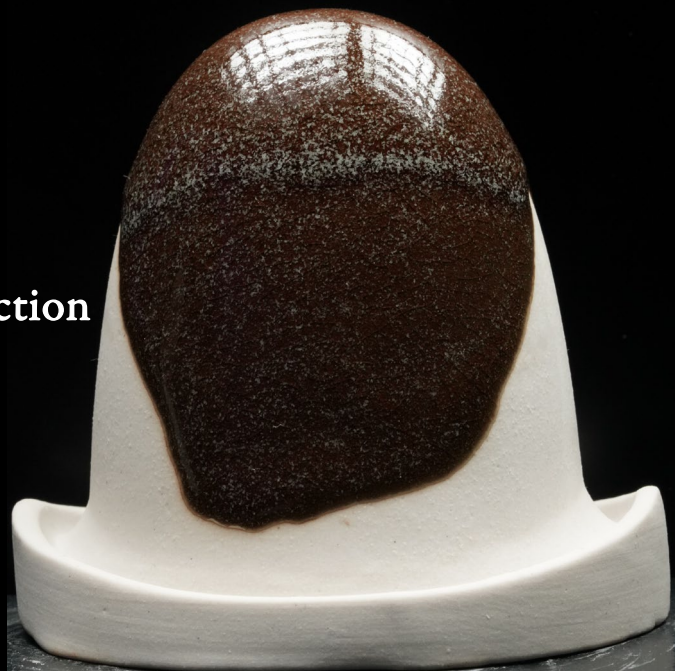


1-3 Second Dip

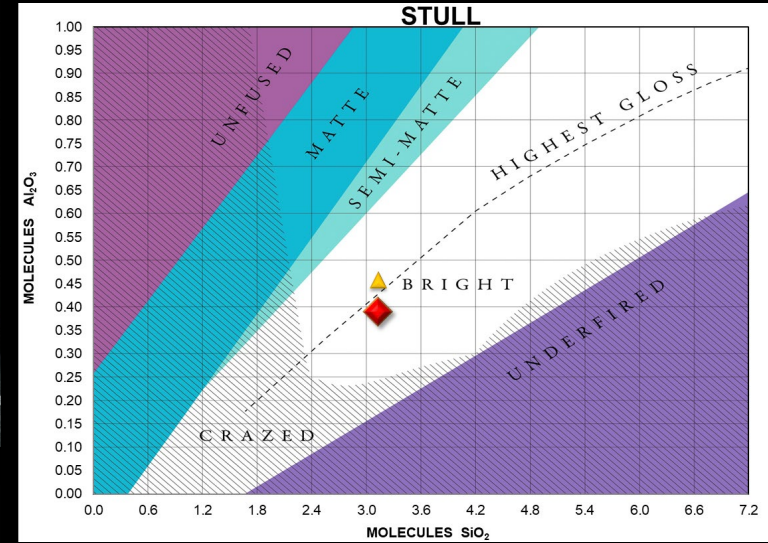
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.35		Alkaline Earths 0.65	
SiO ₂ 3.13	Collective "Al ₂ O ₃ " 0.46	Na ₂ O 0.21	K ₂ O 0.06	MgO 0.00	CaO 0.64
B ₂ O ₃	Al ₂ O ₃ 0.39	Li ₂ O	CuO 0.08	SrO	BaO
TiO ₂ 0.00	NiO 0.07	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

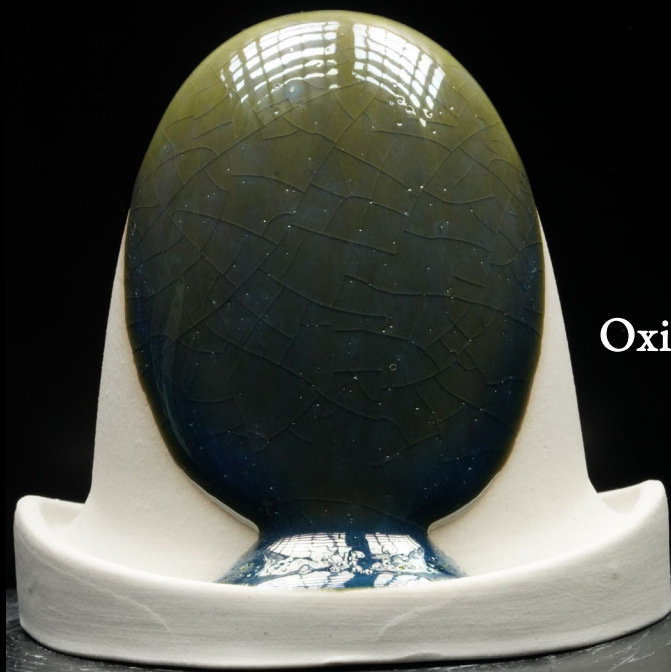


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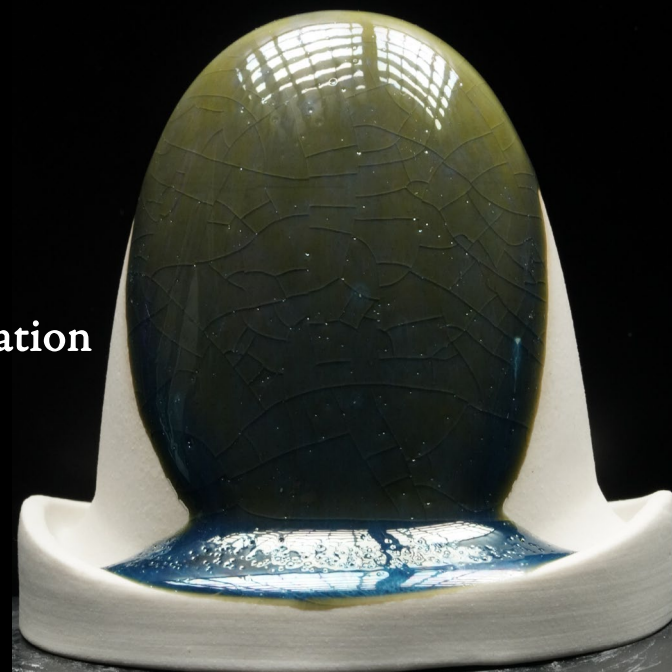
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Neph Sy	36.70
Whiting	18.35
EPK	9.17
Flint	27.52
Copper Carbonate	2.75
Titanium Dioxide	5.50
Water	60



1-3 Second Dip



2-3 Second Dips

Oxidation



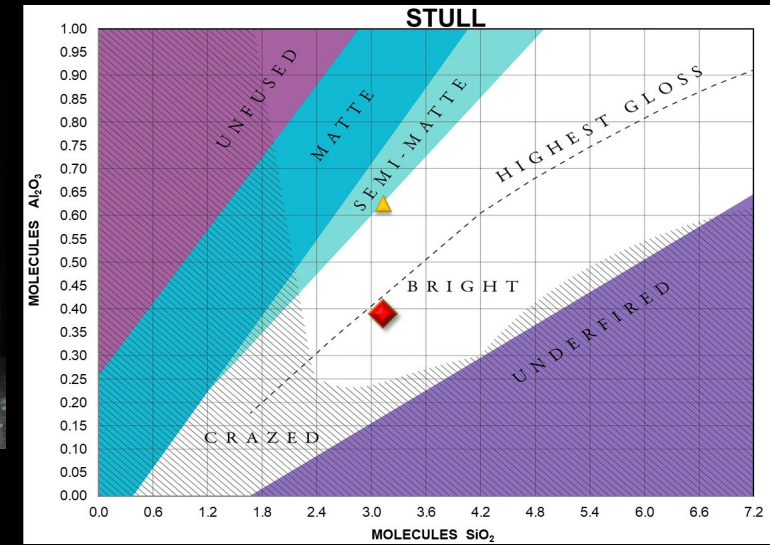
1-3 Second Dip



2-3 Second Dips

Reduction

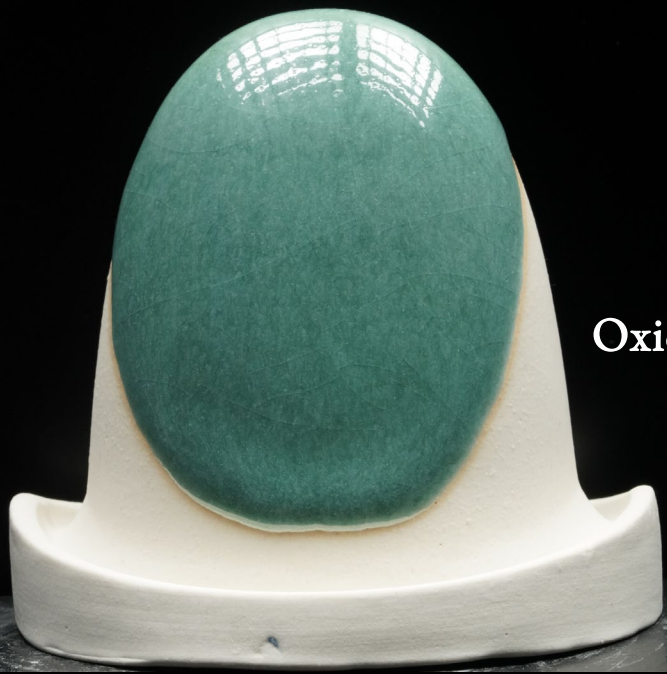
SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.35		Alkaline Earths 0.65	
SiO ₂ 3.13	Collective "Al ₂ O ₃ " 0.63	Na ₂ O 0.21	K ₂ O 0.06	MgO 0.00	CaO 0.64
B ₂ O ₃	Al ₂ O ₃ 0.39	Li ₂ O	CuO 0.08	SrO	BaO
TiO ₂ 0.24	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

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Neph Sy	37.04
Whiting	18.52
EPK	9.26
Flint	27.78
Copper Carbonate	2.78
Tin Oxide	4.63
Water	60



Oxidation



1-3 Second Dip

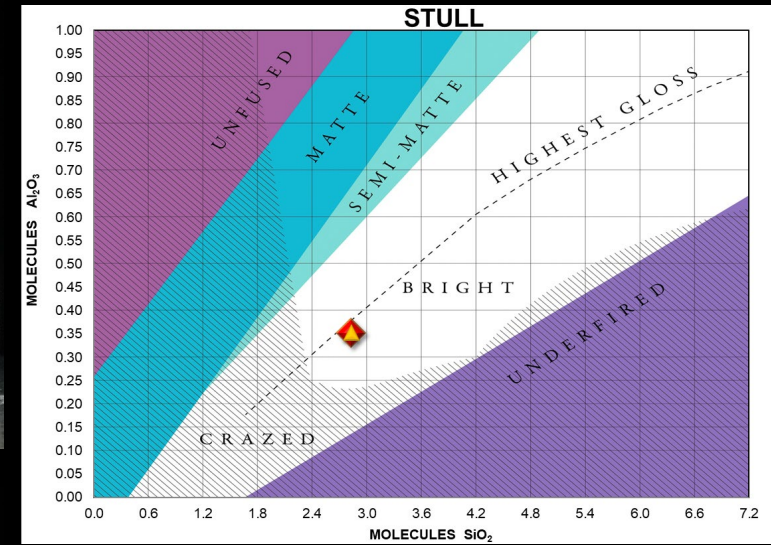
2-3 Second Dips



Reduction



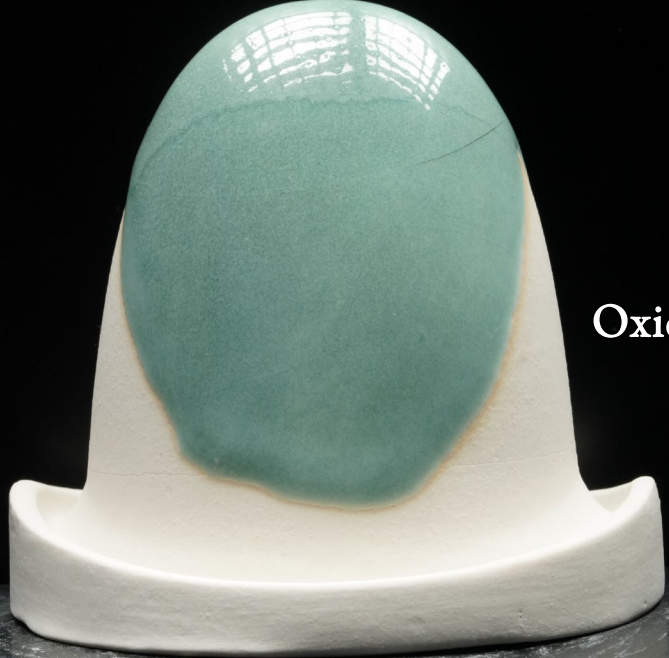
SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.41		Alkaline Earths 0.59	
SiO ₂ 2.83	Collective "Al ₂ O ₃ " 0.35	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.00	CaO 0.58
B ₂ O ₃	Al ₂ O ₃ 0.35	Li ₂ O	CuO 0.07	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂ 0.10	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



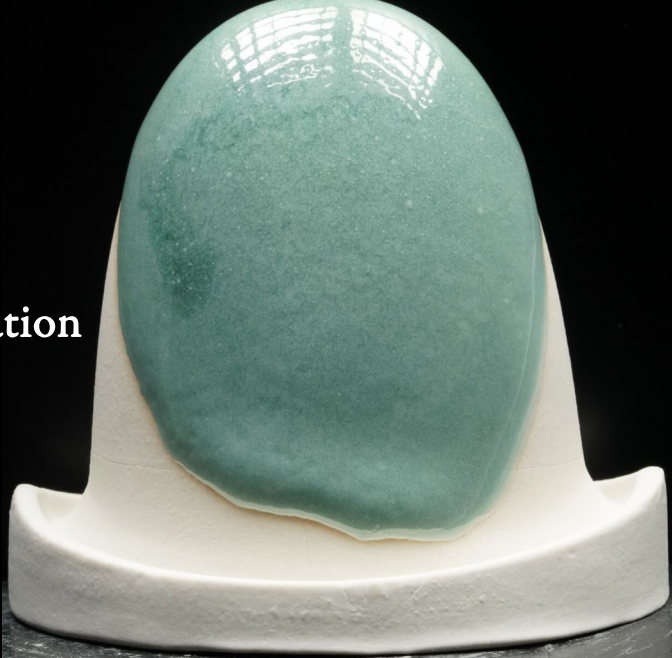
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Neph Sy	35.40
Whiting	17.70
EPK	8.85
Flint	26.55
Copper Carbonate	2.65
Ultrox (Zircopax)	8.85
Water	60

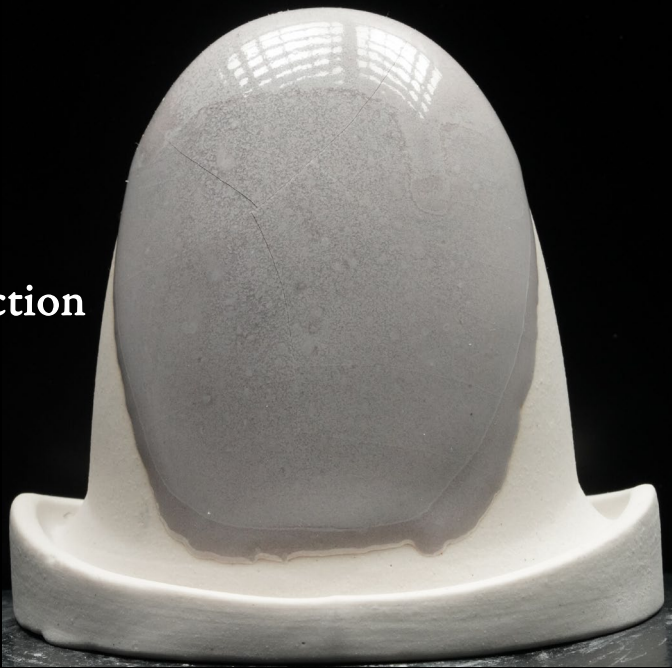


1-3 Second Dip



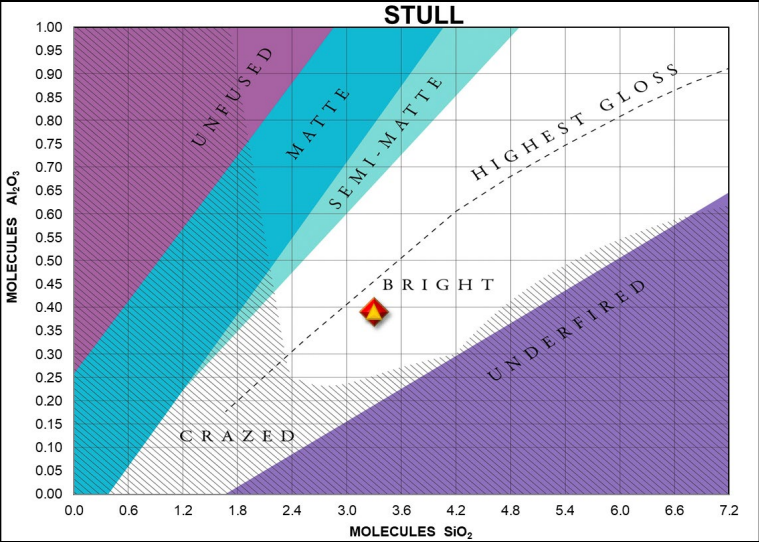
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 8.44 : 1		Alkali Metals 0.35		Alkaline Earths 0.65	
SiO ₂ 3.30	Collective "Al ₂ O ₃ " 0.39	Na ₂ O 0.21	K ₂ O 0.06	MgO 0.00	CaO 0.64
B ₂ O ₃	Al ₂ O ₃ 0.39	Li ₂ O	CuO 0.08	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



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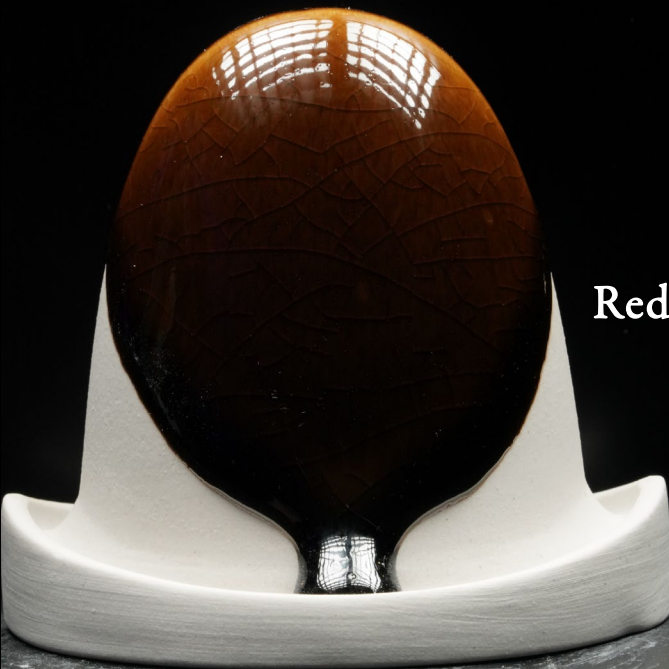
Neph Sy	36.70
Whiting	18.35
EPK	9.17
Flint	27.52
Red Iron Oxide	5.50
Manganese Dioxide	2.75
Water	60



1-3 Second Dip



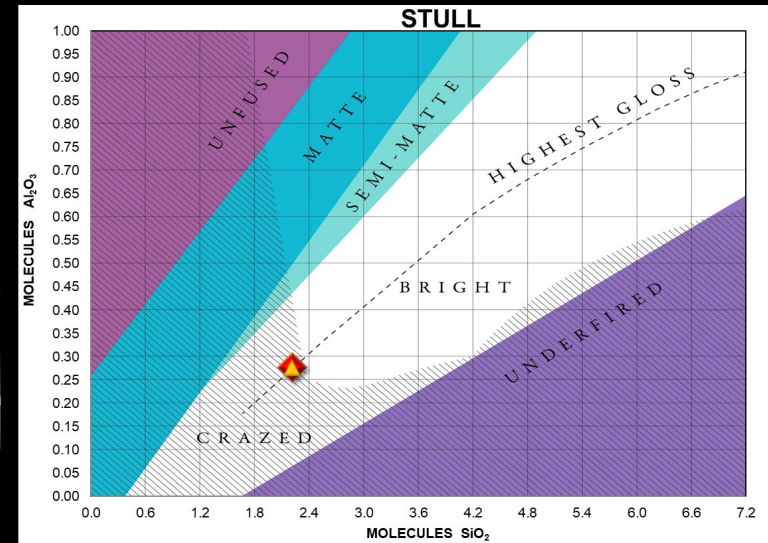
2-3 Second Dips



Oxidation

Reduction

SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 2.21	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.15	K ₂ O 0.04	MgO 0.00	CaO 0.45
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 0.27
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.08	CoO



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Neph Sy	36.87
Whiting	18.43
EPK	9.22
Flint	27.65
Red Iron Oxide	5.53
Nickel Carb (Green)	2.30
Water	60



Oxidation



1-3 Second Dip

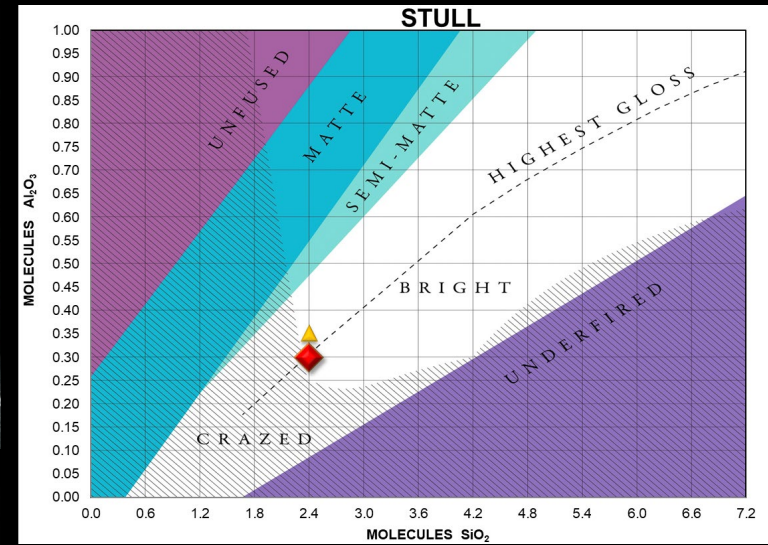
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.40	Collective "Al ₂ O ₃ " 0.35	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.00	CaO 0.49
B ₂ O ₃	Al ₂ O ₃ 0.30	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.05	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.30
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

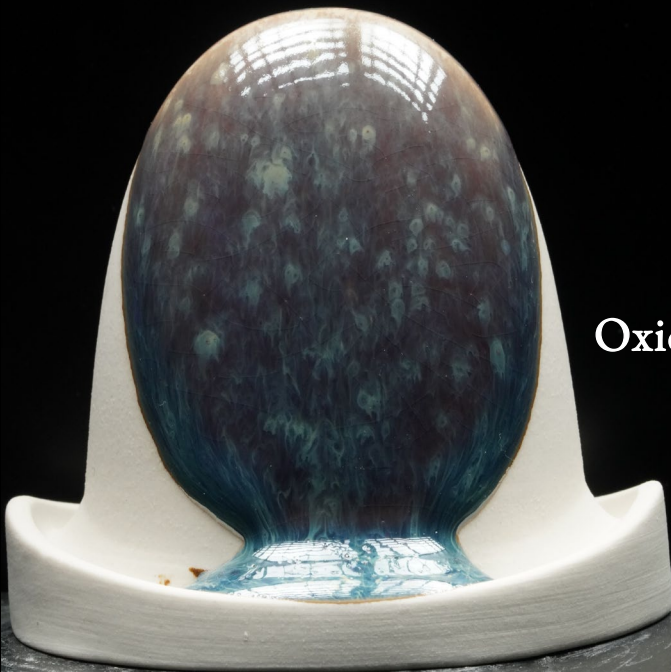


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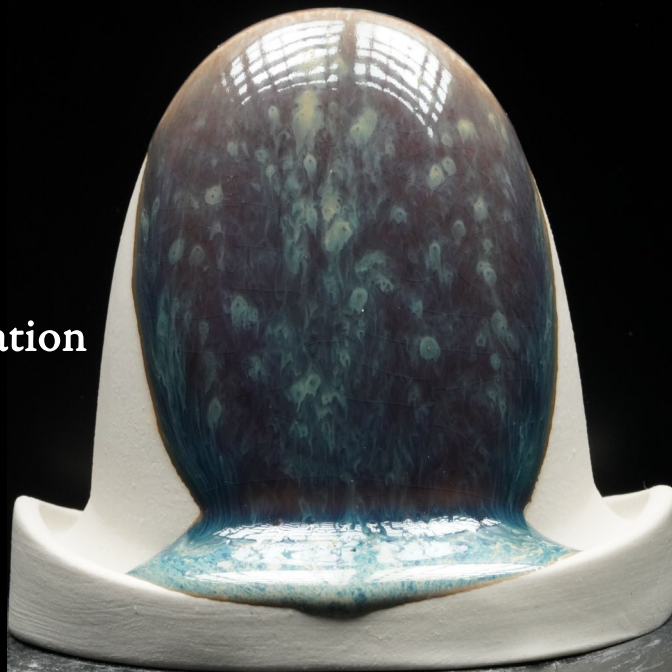
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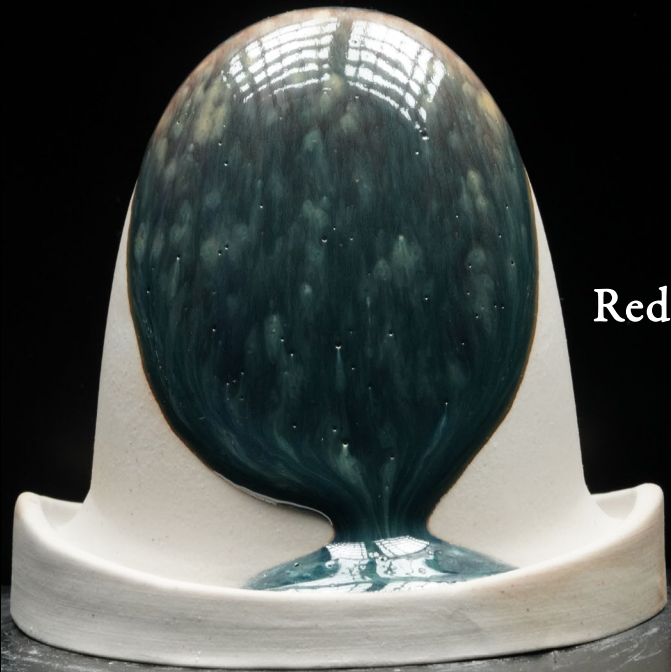
Neph Sy	35.71
Whiting	17.86
EPK	8.93
Flint	26.79
Red Iron Oxide	5.36
Titanium Dioxide	5.36
Water	60



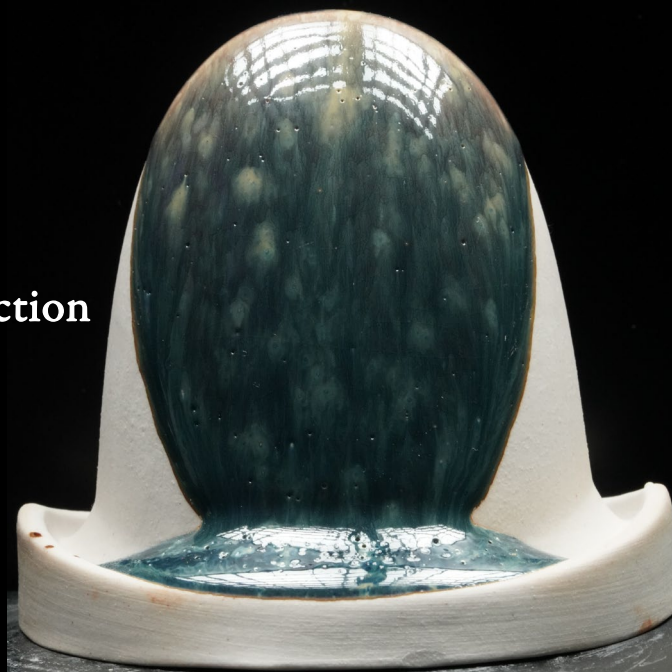
1-3 Second Dip



2-3 Second Dips

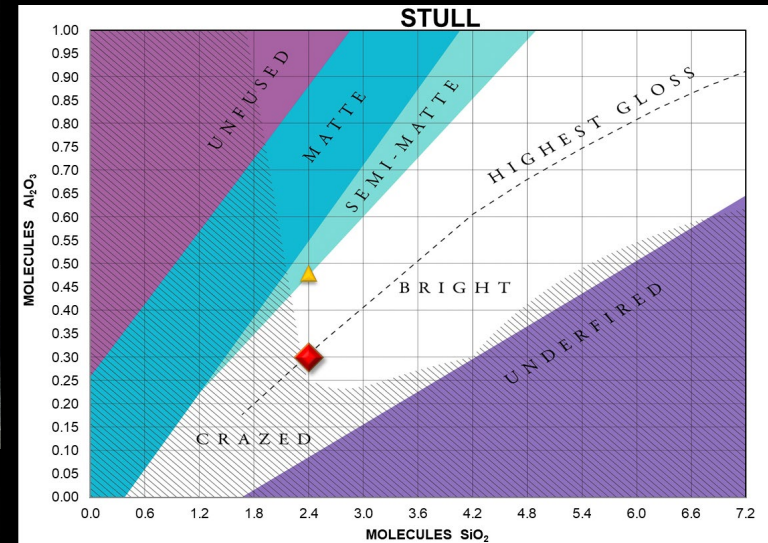


Reduction



Oxidation

SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.40	Collective "Al ₂ O ₃ " 0.48	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.00	CaO 0.49
B ₂ O ₃	Al ₂ O ₃ 0.30	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.18	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.30
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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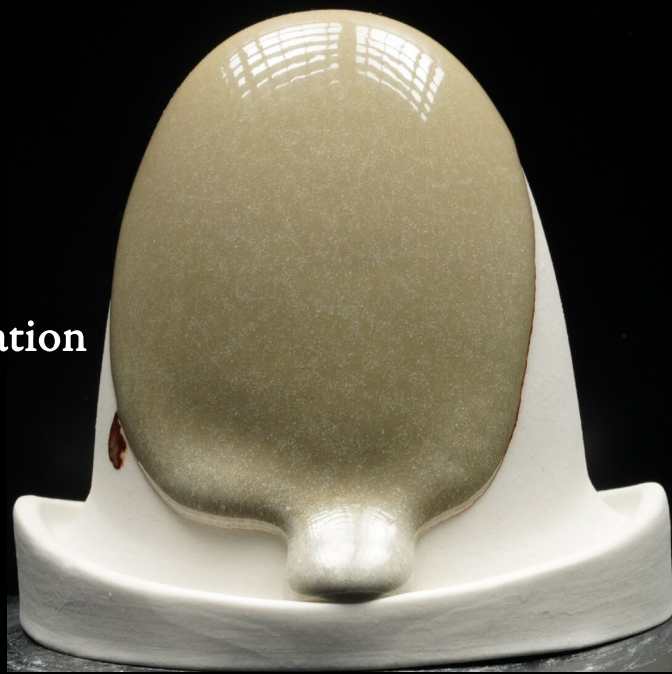
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Neph Sy	36.04
Whiting	18.02
EPK	9.01
Flint	27.03
Red Iron Oxide	5.41
Tin Oxide	4.50
Water	60



Oxidation

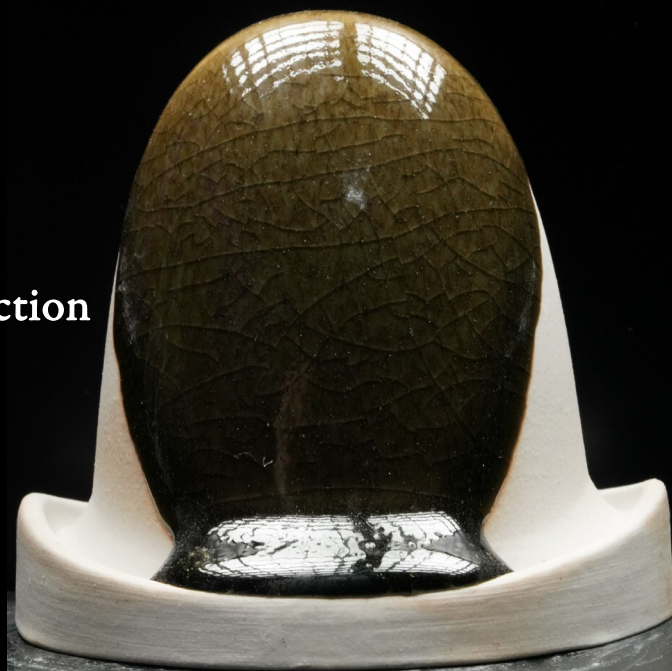
1-3 Second Dip



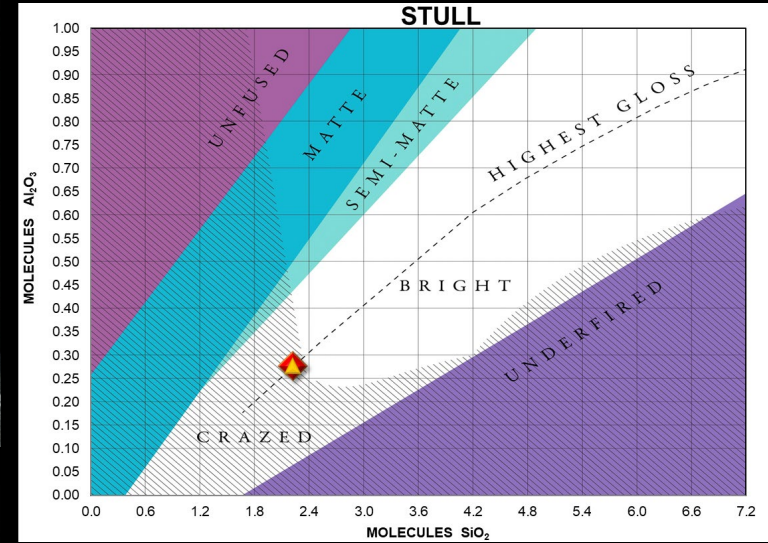
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 2.22	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.15	K ₂ O 0.04	MgO 0.00	CaO 0.46
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 0.07	ZnO	FeO 0.28
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

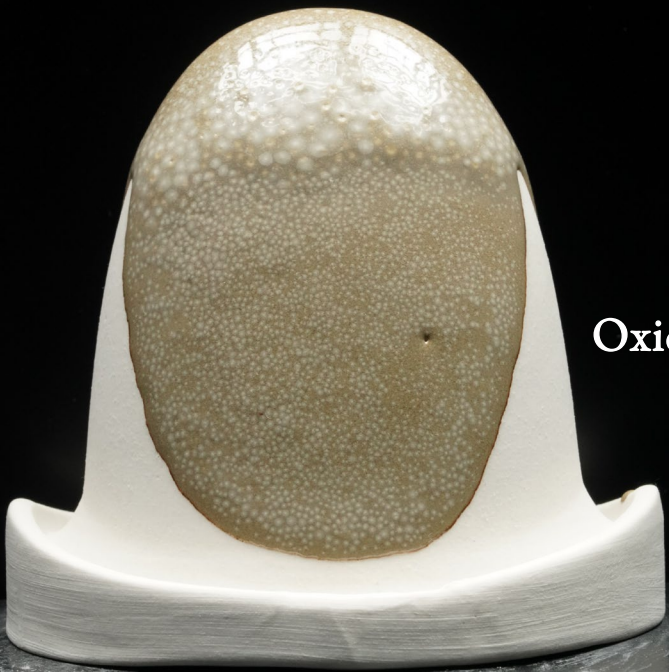


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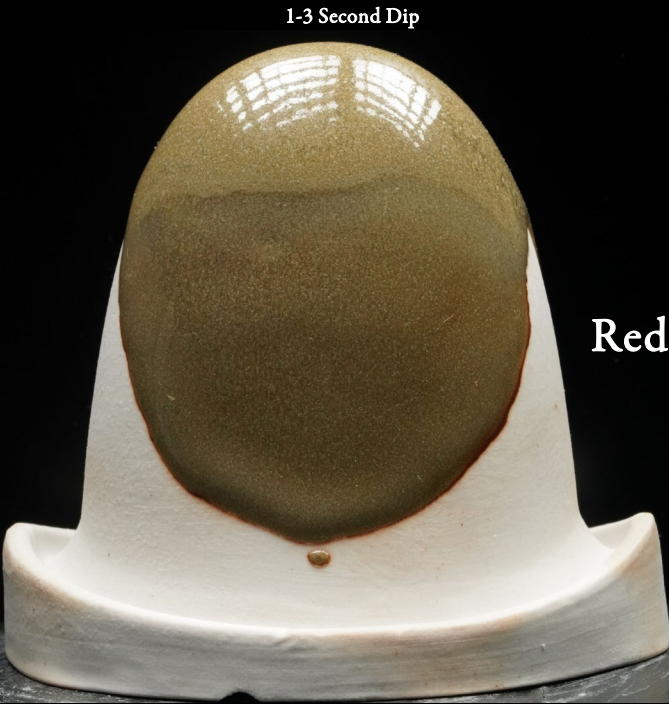
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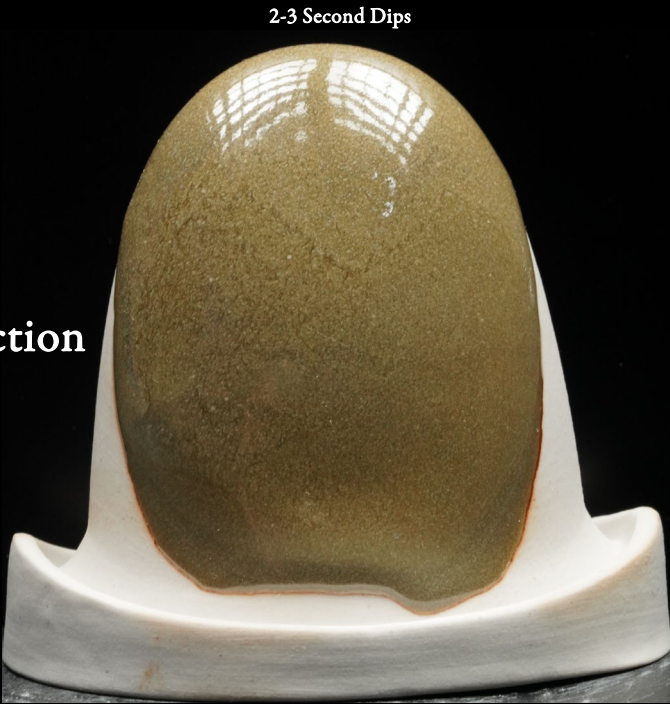
Neph Sy	34.48
Whiting	17.24
EPK	8.62
Flint	25.86
Red Iron Oxide	5.17
Ultrox (Zircopax)	8.62
Water	60



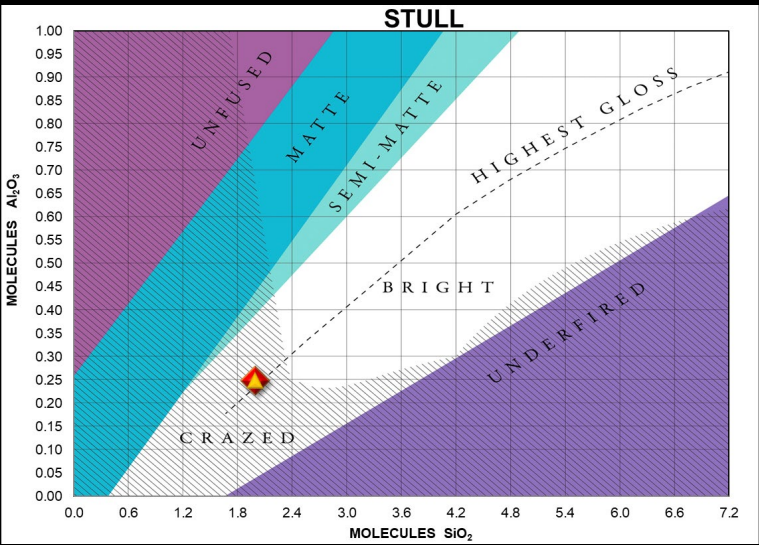
Oxidation



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO ₂ 1.99	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.13	K ₂ O 0.04	MgO 0.00	CaO 0.41
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 0.25
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.17



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Neph Sy	37.91
Whiting	18.96
EPK	9.48
Flint	28.44
Manganese Dioxide	2.84
Nickel Carb (Green)	2.37
Water	60



Oxidation



1-3 Second Dip

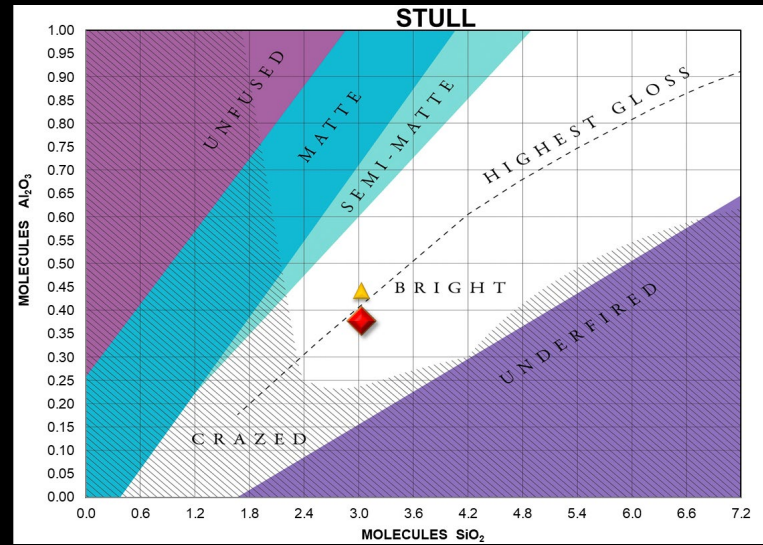
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO ₂ 3.03	Collective "Al ₂ O ₃ " 0.44	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.62
B ₂ O ₃	Al ₂ O ₃ 0.38	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.06	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.11	CoO

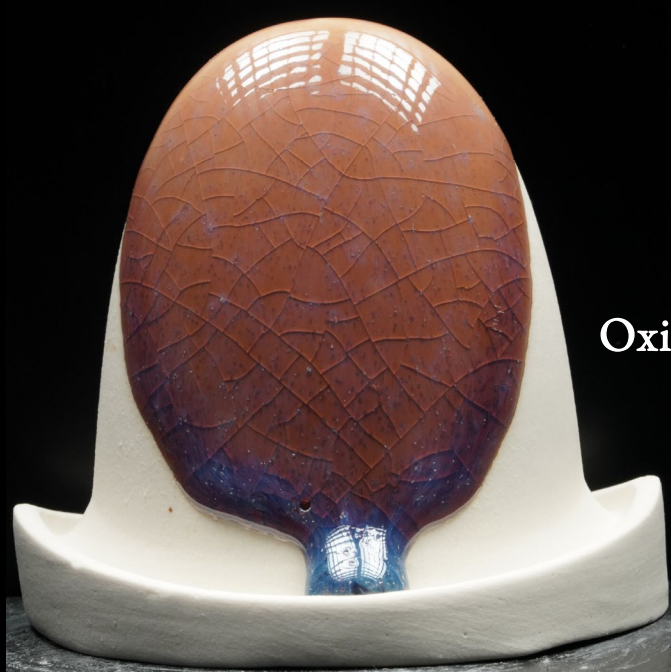


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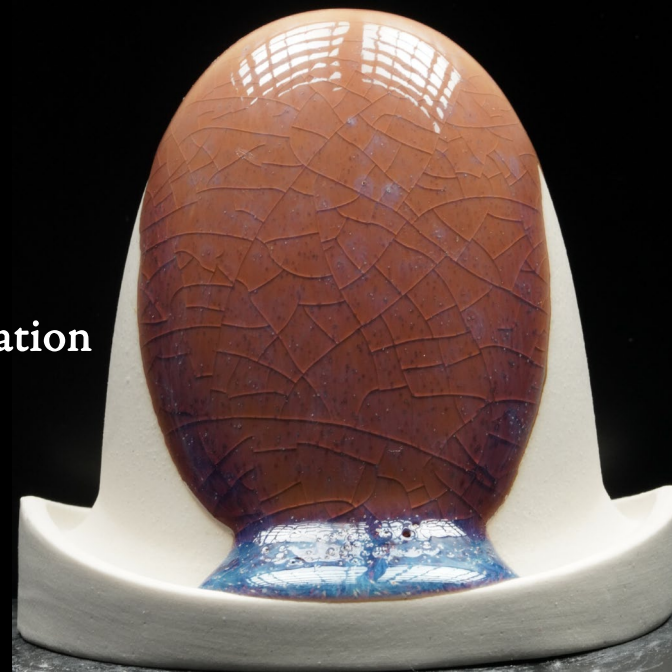
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Neph Sy	36.70
Whiting	18.35
EPK	9.17
Flint	27.52
Manganese Dioxide	2.75
Titanium Dioxide	5.50
Water	60



1-3 Second Dip



2-3 Second Dips

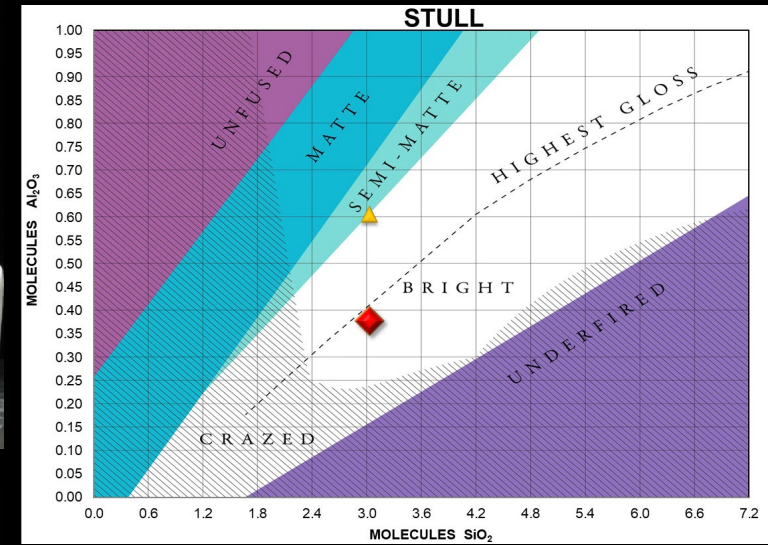


Reduction



Oxidation

SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO ₂ 3.03	Collective "Al ₂ O ₃ " 0.61	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.62
B ₂ O ₃	Al ₂ O ₃ 0.38	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.23	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.11	CoO



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Neph Sy	37.04
Whiting	18.52
EPK	9.26
Flint	27.78
Manganese Dioxide	2.78
Tin Oxide	4.63
Water	60



1-3 Second Dip



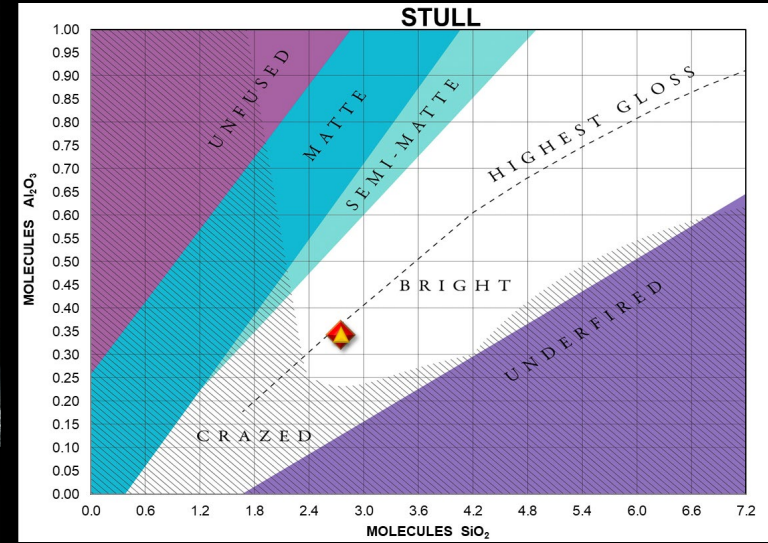
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 7.99 : 1		Alkali Metals 0.33		Alkaline Earths 0.67	
SiO ₂ 2.75	Collective "Al ₂ O ₃ " 0.34	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.00	CaO 0.56
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 0.09	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.10	CoO



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Neph Sy	35.40
Whiting	17.70
EPK	8.85
Flint	26.55
Manganese Dioxide	2.65
Ultrox (Zircopax)	8.85
Water	60



1-3 Second Dip



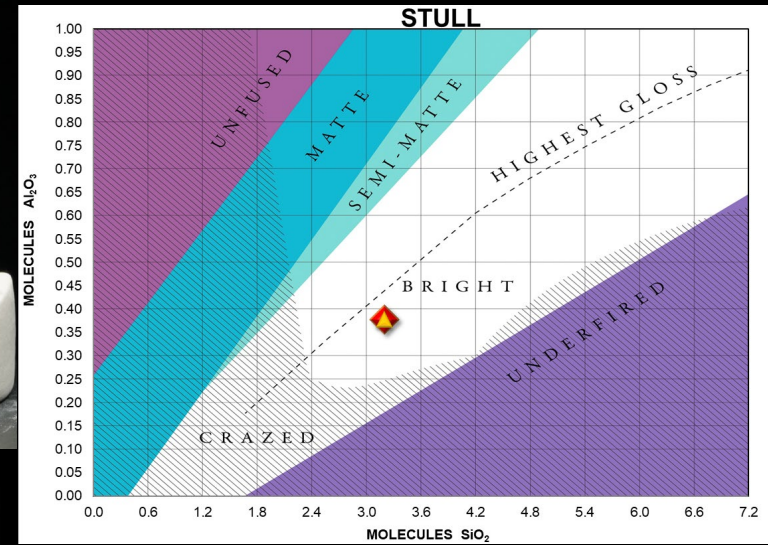
2-3 Second Dips

Oxidation



Reduction

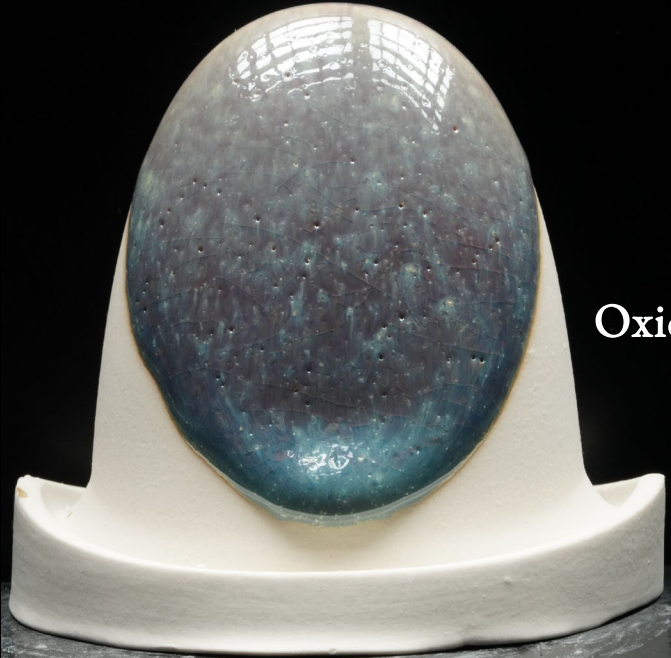
SiO ₂ :Al ₂ O ₃ Ratio 8.44 :1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO ₂ 3.20	Collective "Al ₂ O ₃ " 0.38	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.62
B ₂ O ₃	Al ₂ O ₃ 0.38	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.11	CoO



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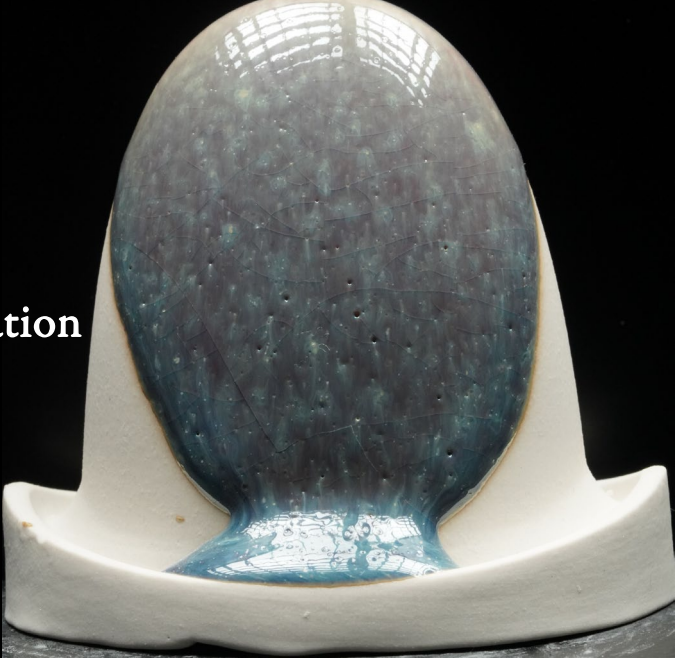
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Neph Sy	36.87
Whiting	18.43
EPK	9.22
Flint	27.65
Nickel Carb (Green)	2.30
Titanium Dioxide	5.53
Water	60



Oxidation

1-3 Second Dip



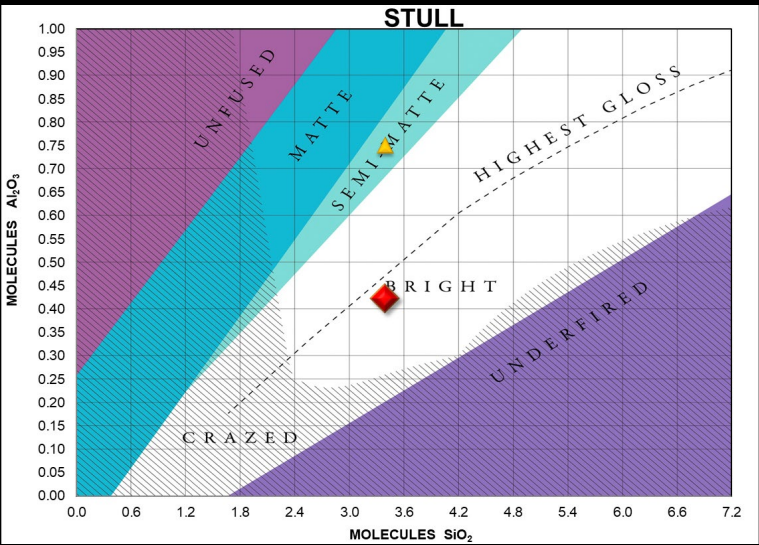
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 4.51 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.39	Collective "Al ₂ O ₃ " 0.75	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.42	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.26	NiO 0.07	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Neph Sy	37.21
Whiting	18.60
EPK	9.30
Flint	27.91
Nickel Carb (Green)	2.33
Tin Oxide	4.65
Water	60



1-3 Second Dip



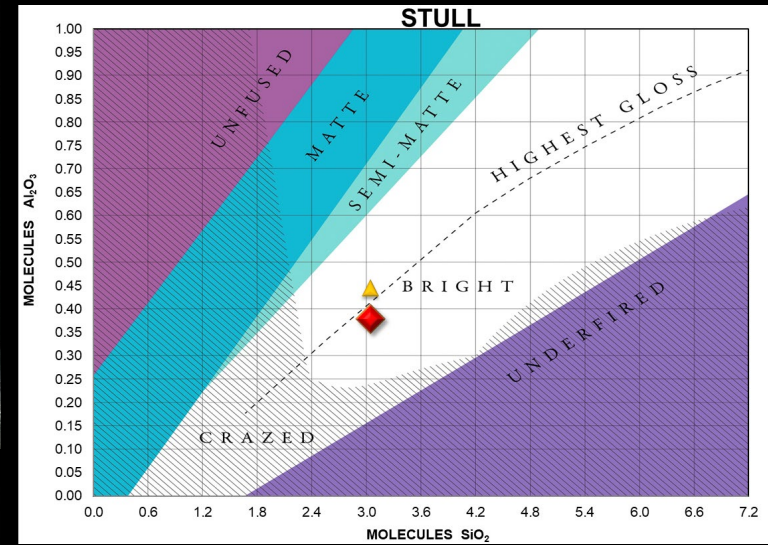
2-3 Second Dips

Oxidation



Reduction

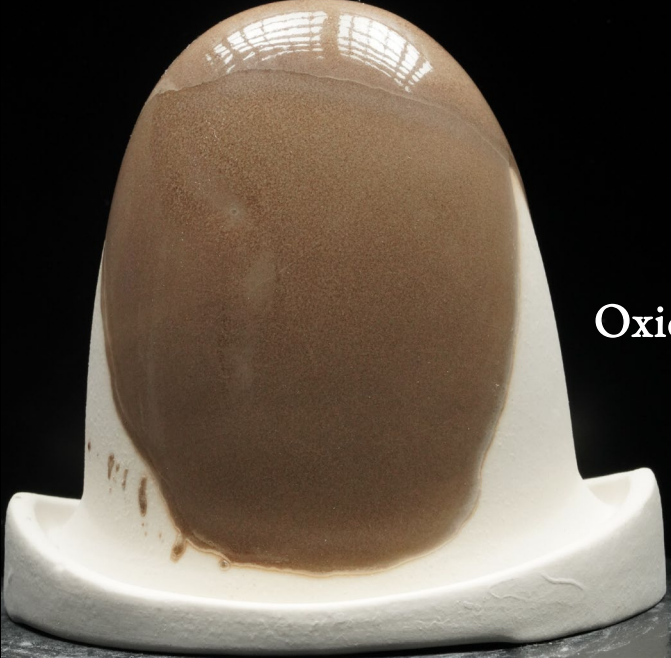
SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.37		Alkaline Earths 0.63	
SiO ₂ 3.04	Collective "Al ₂ O ₃ " 0.45	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.62
B ₂ O ₃	Al ₂ O ₃ 0.38	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.06	Bi ₂ O ₃	SnO ₂ 0.10	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



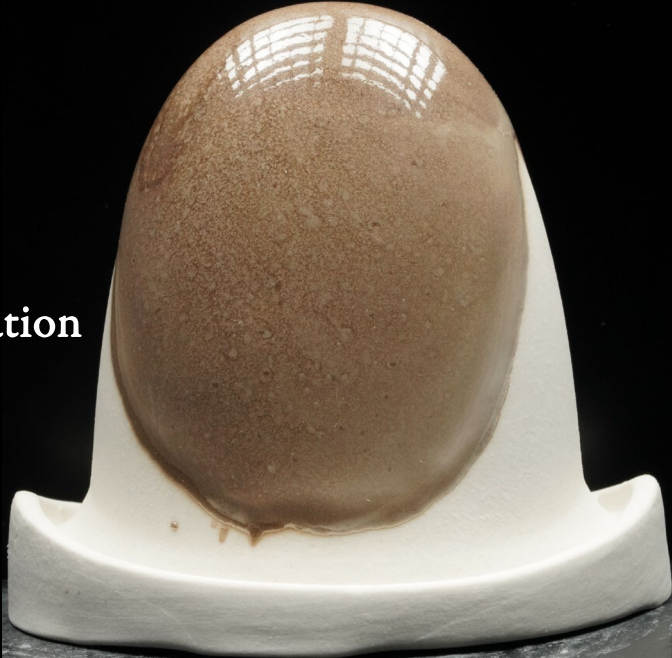
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Neph Sy	35.56
Whiting	17.78
EPK	8.89
Flint	26.67
Nickel Carb (Green)	2.22
Ultrox (Zircopax)	8.89
Water	60



1-3 Second Dip



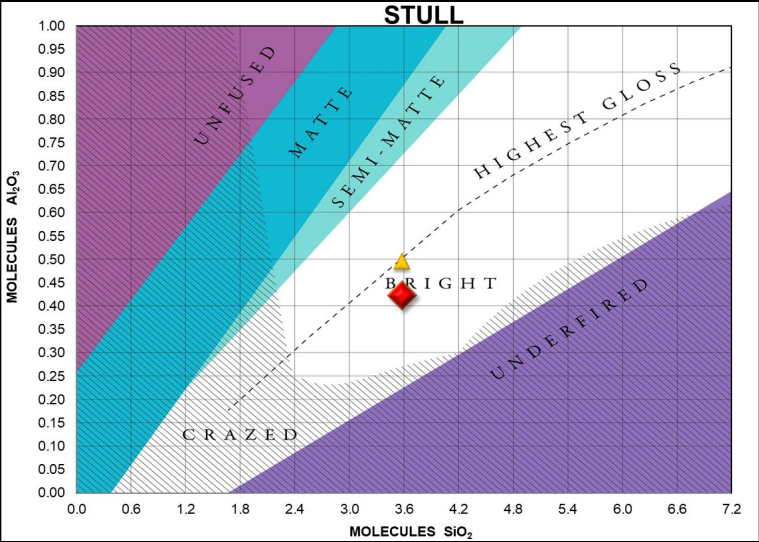
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 7.21 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.58	Collective "Al ₂ O ₃ " 0.50	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.42	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.07	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Neph Sy	36.04
Whiting	18.02
EPK	9.01
Flint	27.03
Titanium Dioxide	5.41
Tin Oxide	4.50
Water	60



1-3 Second Dip



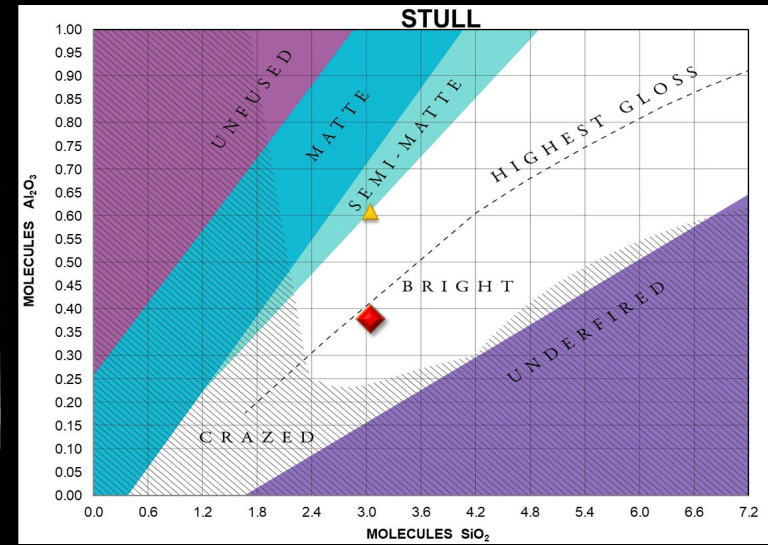
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.37		Alkaline Earths 0.63	
SiO ₂ 3.04	Collective "Al ₂ O ₃ " 0.61	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.62
B ₂ O ₃	Al ₂ O ₃ 0.38	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.23	NiO	Bi ₂ O ₃	SnO ₂ 0.10	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

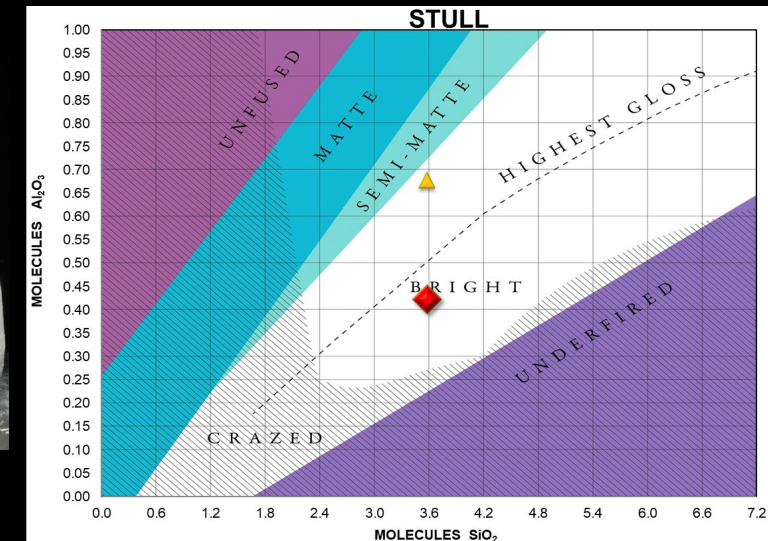


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SiO ₂ :Al ₂ O ₃ Ratio 5.27 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.58	Collective "Al ₂ O ₃ " 0.68	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.42	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.26	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Oxidation



1-3 Second Dip



2-3 Second Dips

Reduction



Neph Sy	34.48
Whiting	17.24
EPK	8.62
Flint	25.86
Titanium Dioxide	5.17
Ultrox (Zircopax)	8.62
Water	80

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Neph Sy	34.78
Whiting	17.39
EPK	8.70
Flint	26.09
Tin Oxide	4.35
Ultrox (Zircopax)	8.70
Water	80



1-3 Second Dip



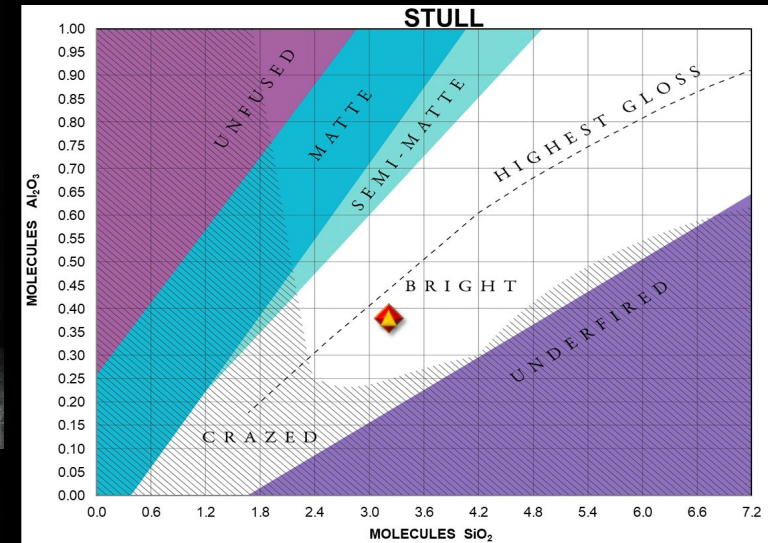
2-3 Second Dips



Oxidation

Reduction

SiO ₂ :Al ₂ O ₃ Ratio 8.44 : 1		Alkali Metals 0.37		Alkaline Earths 0.63	
SiO ₂ 3.21	Collective "Al ₂ O ₃ " 0.38	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.62
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 0.10	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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