

Zinc Pinc- Δ 10

Lab 5b-Color Wheel 2-Individual

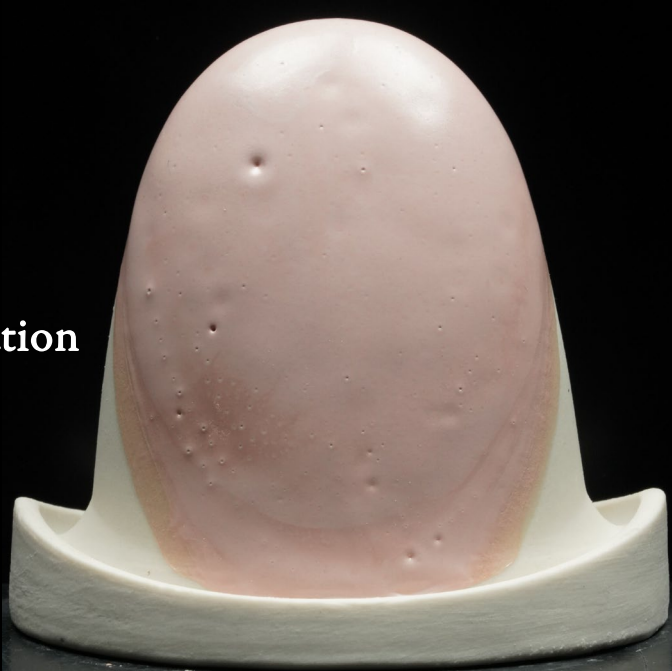
Zinc Pinc

Original
062322-1

Neph Sy	40.00
Zinc Oxide	20.00
EPK	10.00
Flint	30.00
Chrome Oxide	1.00
Water	80



1-3 Second Dip



2-3 Second Dips



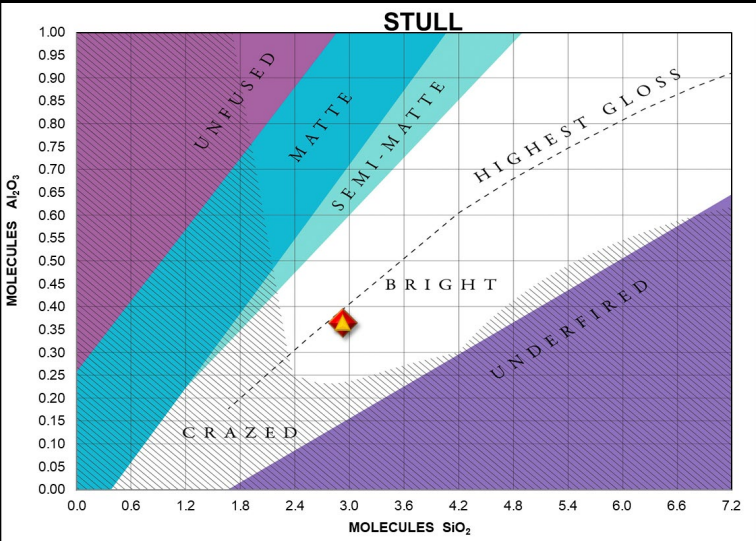
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 2.93	Collective "Al ₂ O ₃ " 0.37	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.73	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

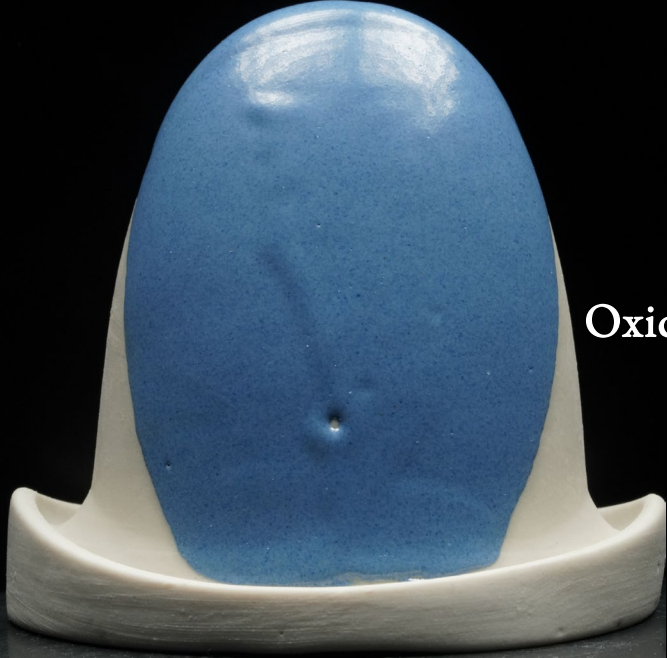
SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 2.93	Collective "Al ₂ O ₃ " 0.37	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.73	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



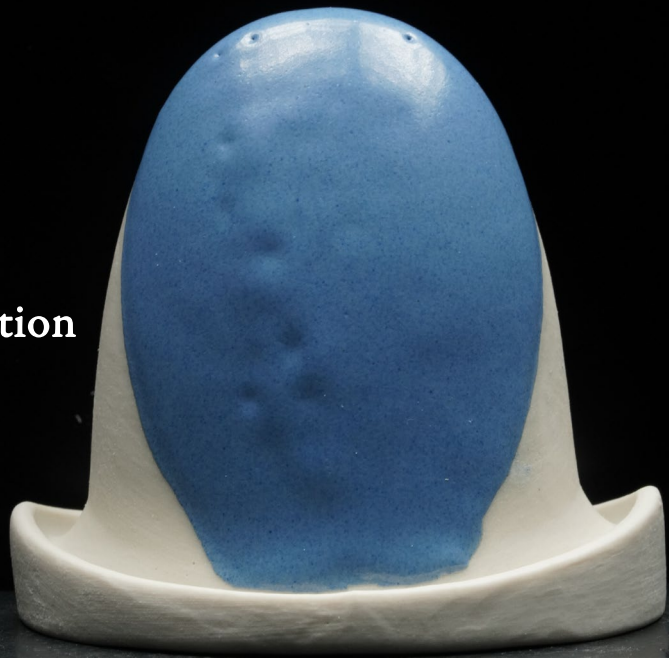
Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	39.22
Zinc Oxide	19.61
EPK	9.80
Flint	29.41
Cobalt Carbonate	0.98
Chrome Oxide	0.98
Water	80



1-3 Second Dip



2-3 Second Dips

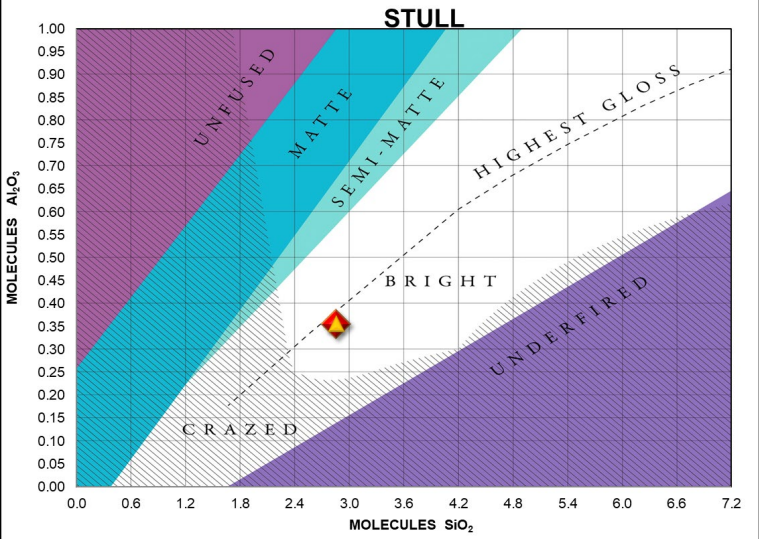


Reduction



Oxidation

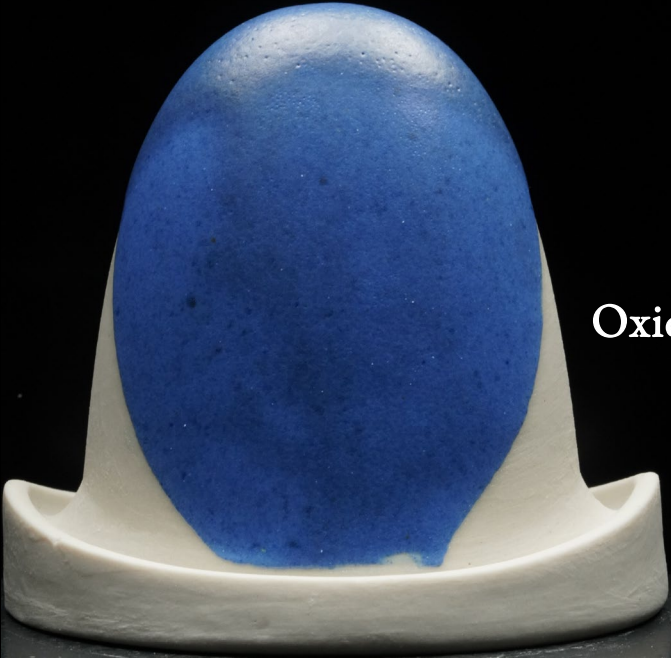
SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 2.86	Collective "Al ₂ O ₃ " 0.36	Na ₂ O 0.19	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.71	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



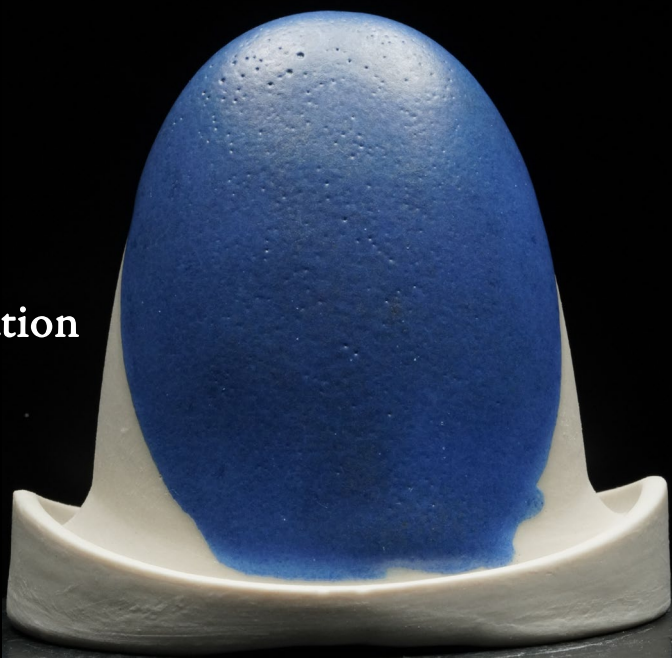
Ceramic
Materials
Workshop

Zinc Pinc

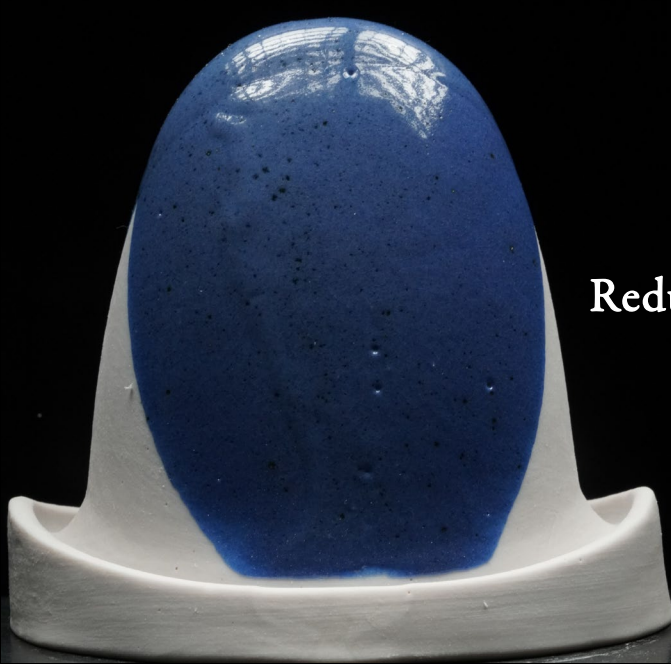
Neph Sy	39.22
Zinc Oxide	19.61
EPK	9.80
Flint	29.41
Cobalt Carbonate	0.98
Copper Carbamate	0.98
Water	80



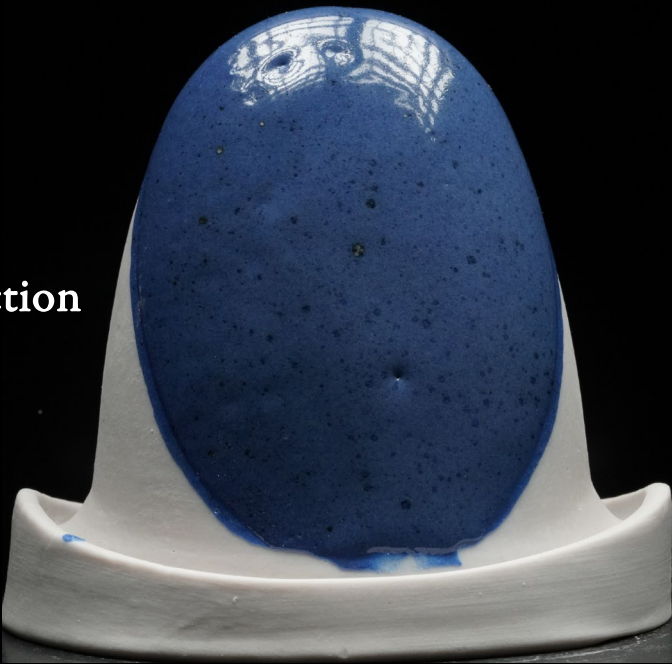
1-3 Second Dip



2-3 Second Dips

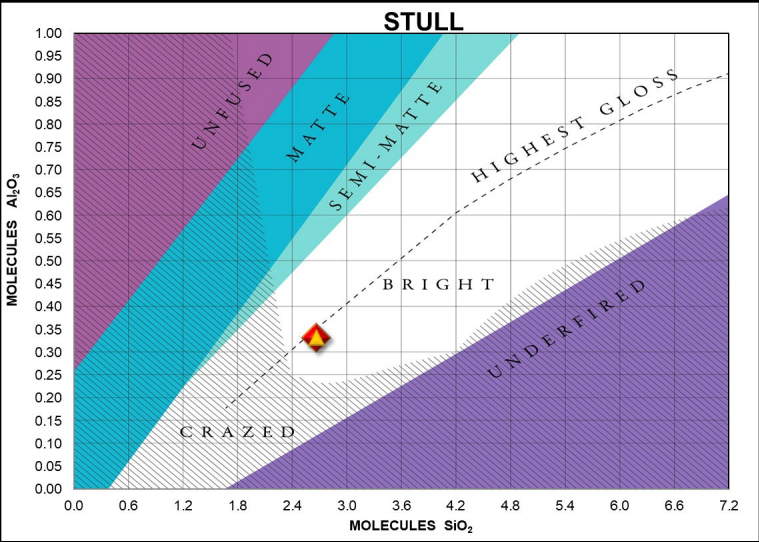


Reduction



Oxidation

SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 2.67	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.33	Li ₂ O	CuO 0.07	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.66	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



Zinc Pinc

Neph Sy	37.38
Zinc Oxide	18.69
EPK	9.35
Flint	28.04
Cobalt Carbonate	0.93
Red Iron Oxide	5.61
Water	80



1-3 Second Dip



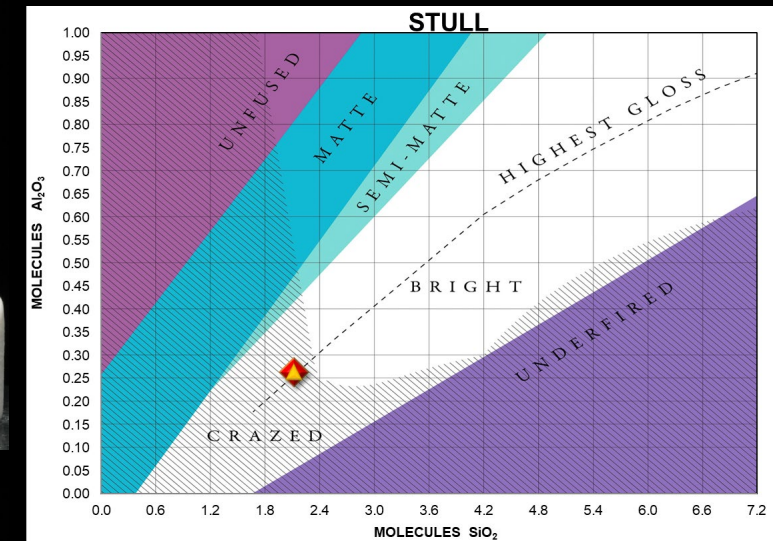
2-3 Second Dips

Oxidation



Reduction

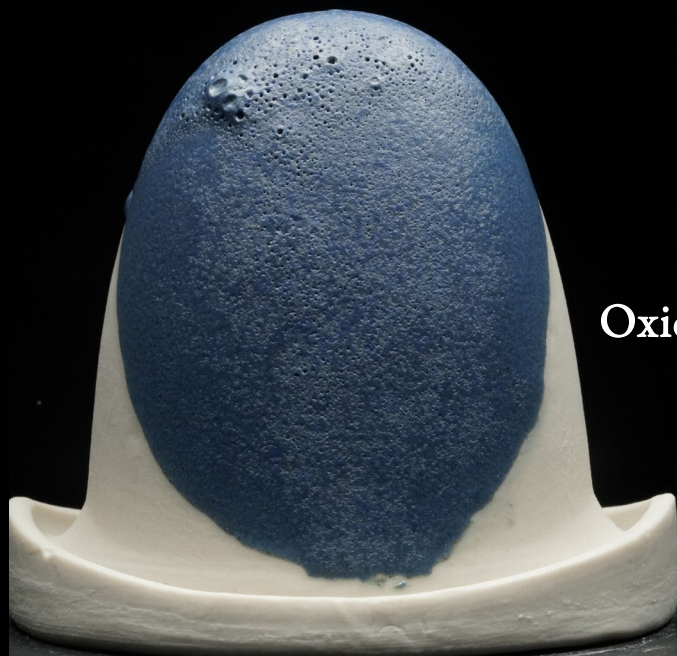
SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.18		Alkaline Earths 0.82	
SiO ₂ 2.12	Collective "Al ₂ O ₃ " 0.27	Na ₂ O 0.14	K ₂ O 0.04	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.53	FeO 0.26
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



Ceramic
Materials
Workshop

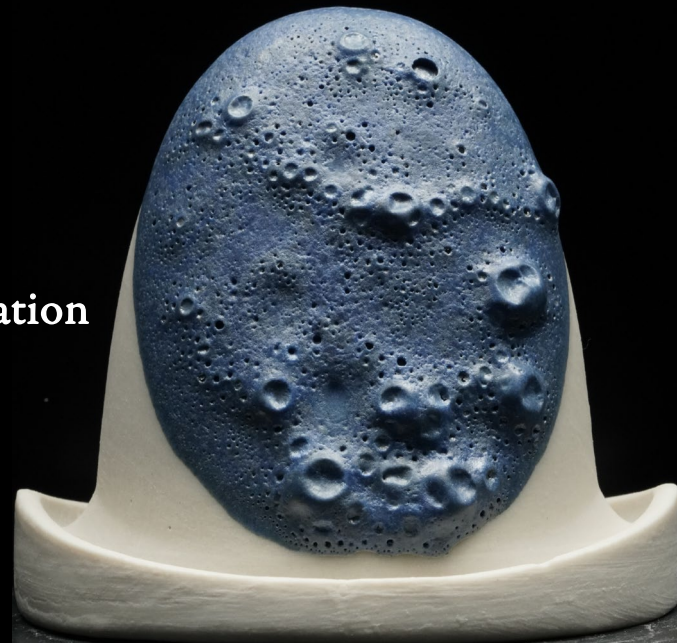
Zinc Pinc

Neph Sy	38.46
Zinc Oxide	19.23
EPK	9.62
Flint	28.85
Cobalt Carbonate	0.96
Manganese Dioxide	2.88
Water	80

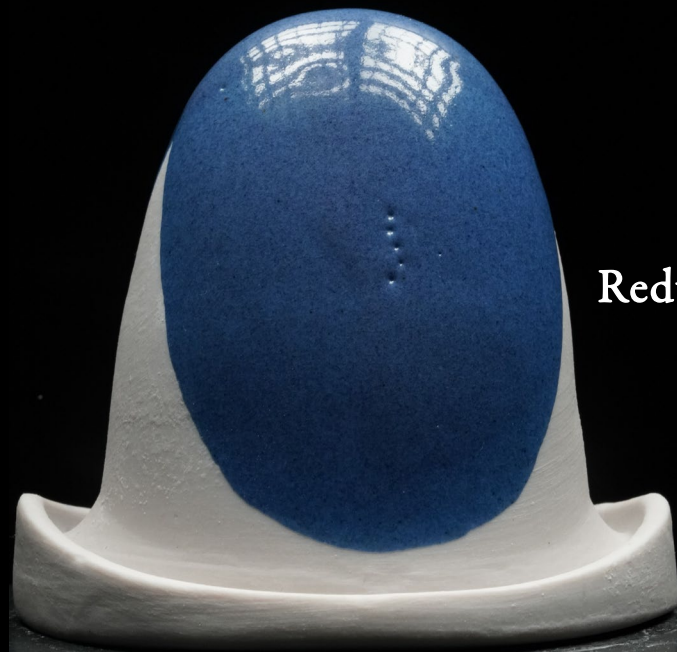


1-3 Second Dip

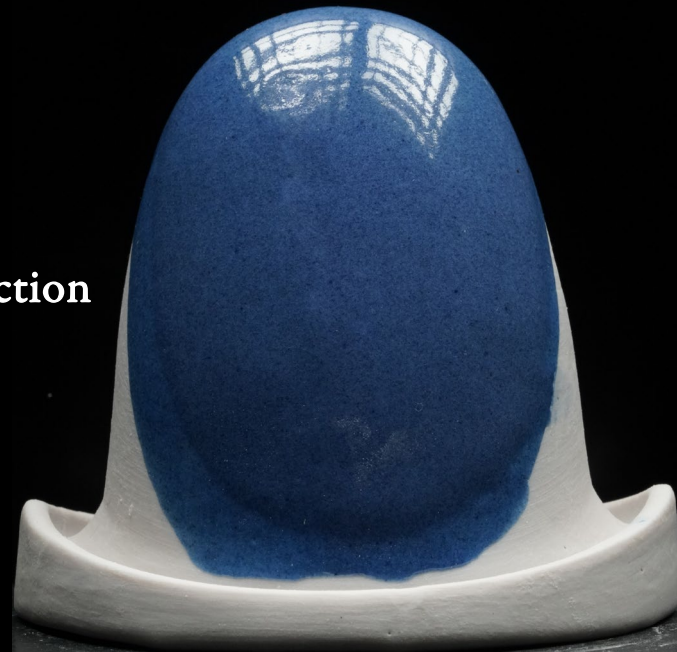
Oxidation



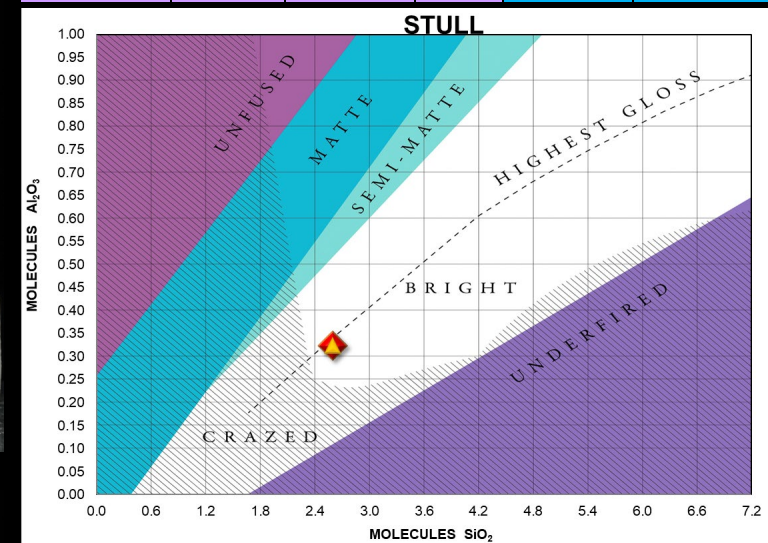
2-3 Second Dips



Reduction



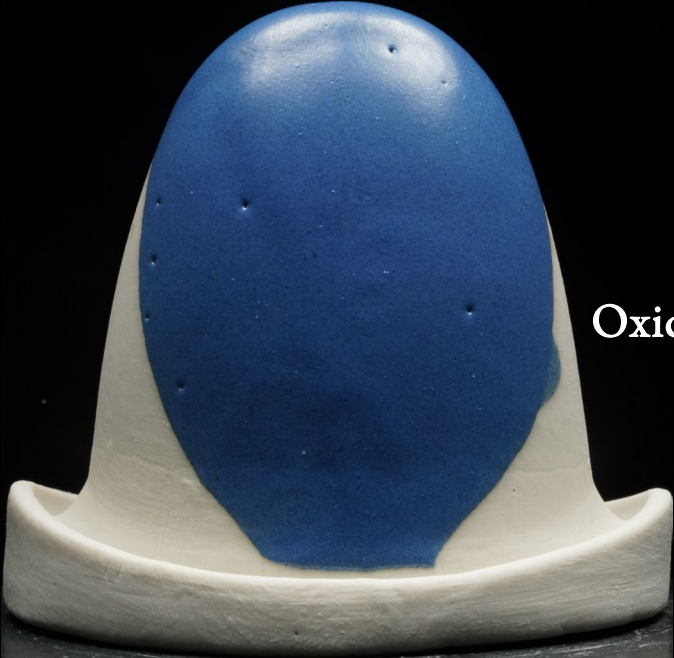
SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.60	Collective "Al ₂ O ₃ " 0.32	Na ₂ O 0.17	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.32	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.65	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.09	CoO 0.02



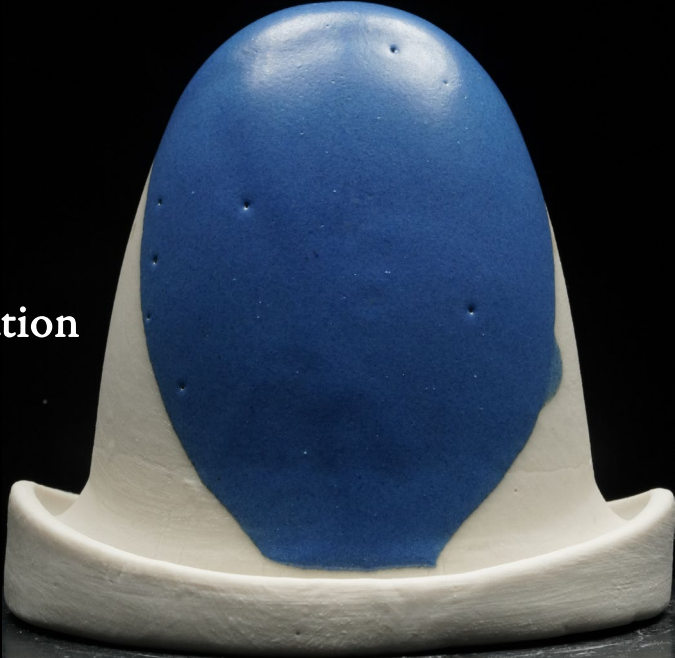
Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	38.65
Zinc Oxide	19.32
EPK	9.66
Flint	28.99
Cobalt Carbonate	0.97
Nickel Carb (Green)	2.42
Water	80

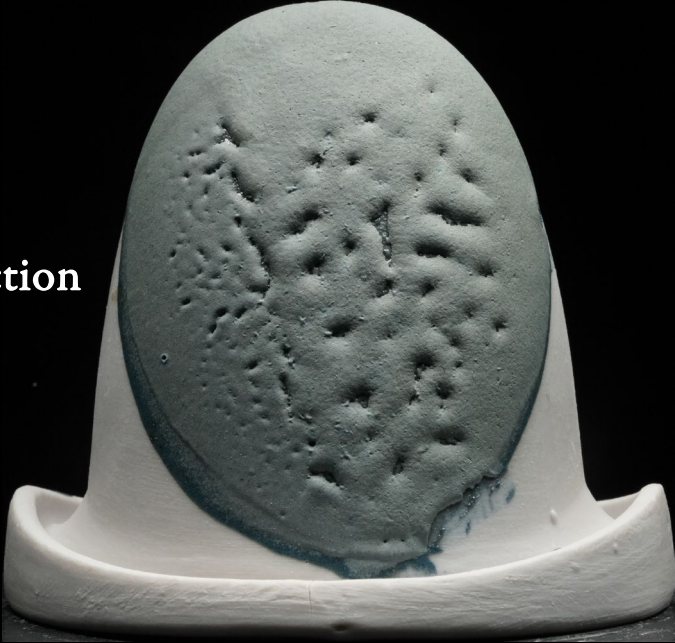


1-3 Second Dip



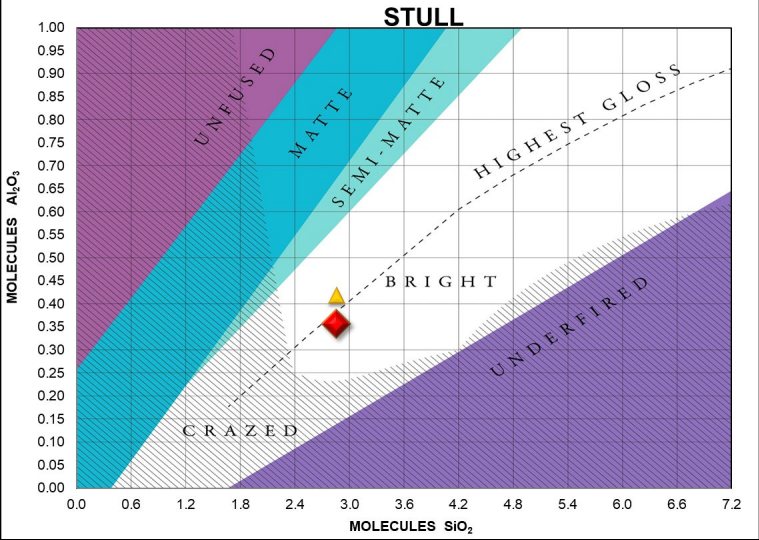
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 2.86	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.19	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.06	Bi ₂ O ₃	SnO ₂	ZnO 0.71	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	37.38
Zinc Oxide	18.69
EPK	9.35
Flint	28.04
Cobalt Carbonate	0.93
Titanium Dioxide	5.61
Water	80

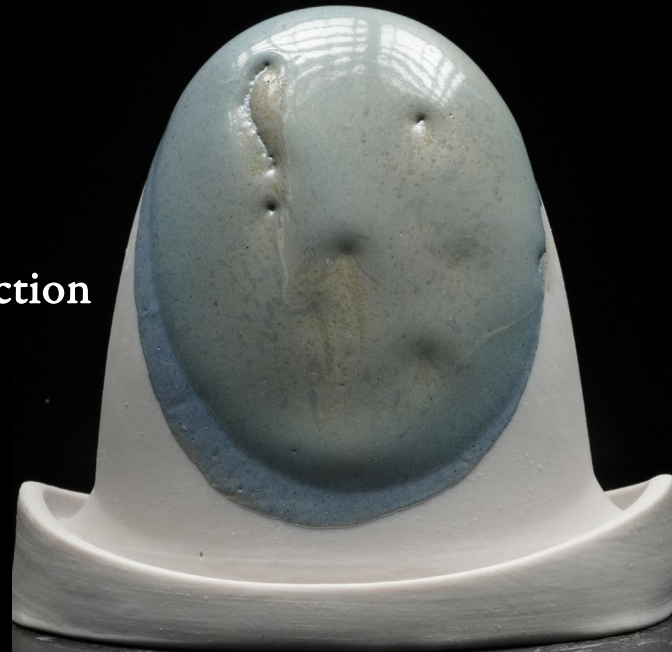


1-3 Second Dip



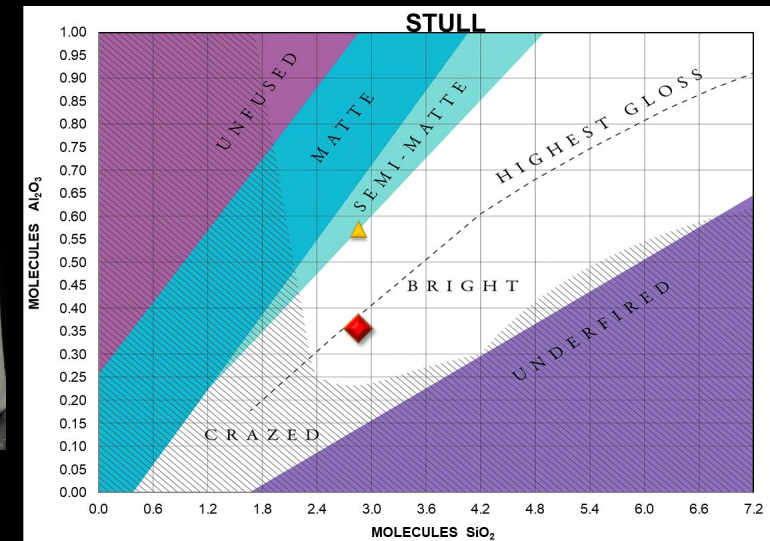
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 2.86	Collective "Al ₂ O ₃ " 0.57	Na ₂ O 0.19	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.22	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.71	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02

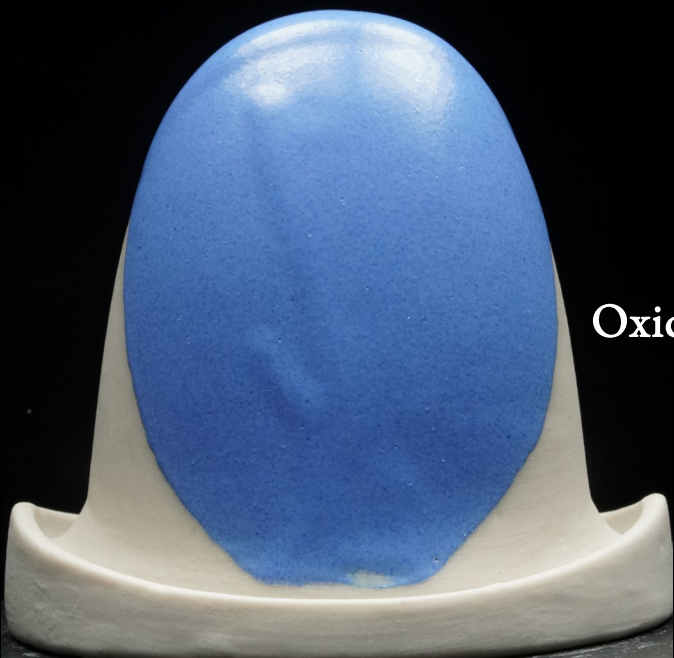


Ceramic
Materials
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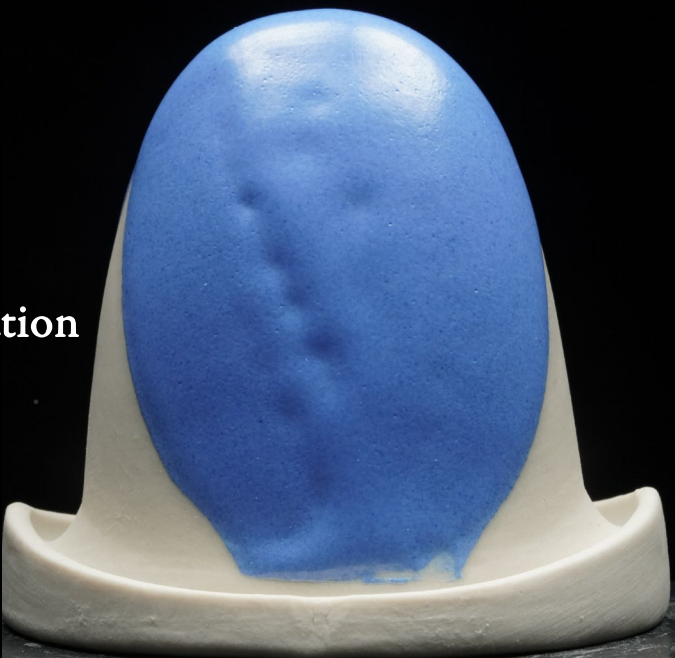
ceramicmaterialsworkshop.com

Zinc Pinc

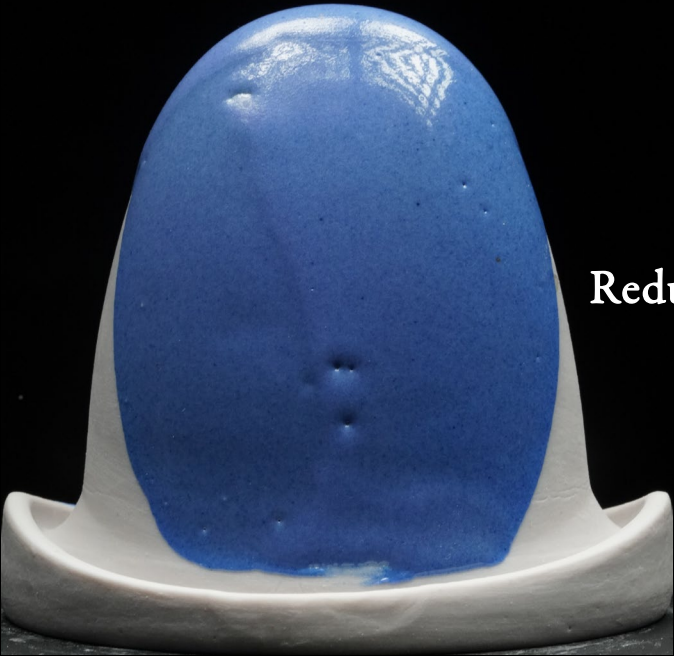
Neph Sy	37.74
Zinc Oxide	18.87
EPK	9.43
Flint	28.30
Cobalt Carbonate	0.94
Tin Oxide	4.72
Water	80



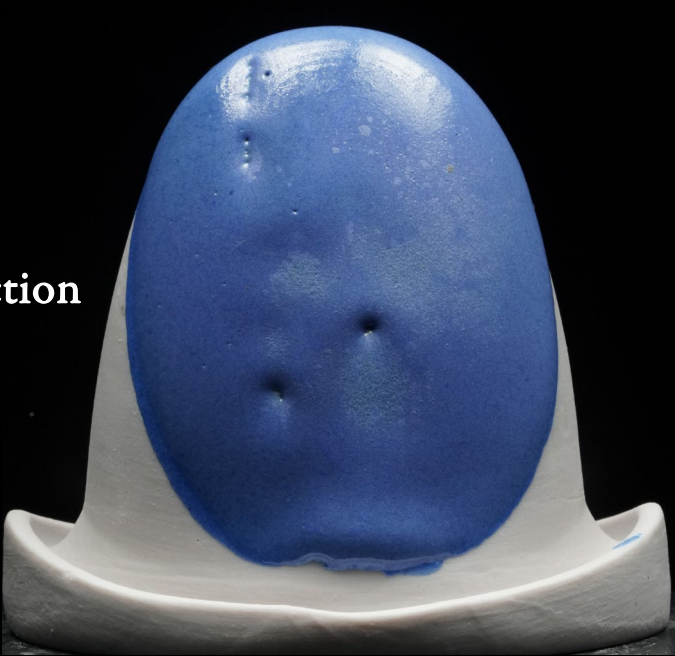
1-3 Second Dip



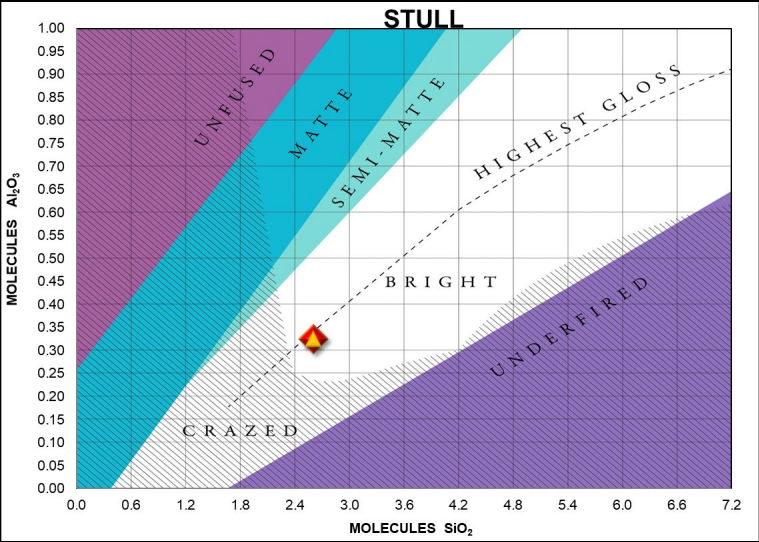
2-3 Second Dips



Reduction



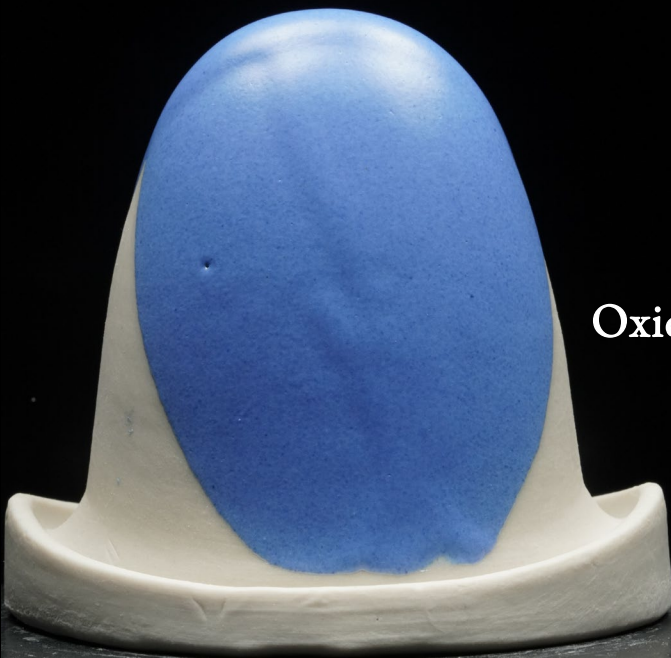
SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.31		Alkaline Earths 0.69	
SiO ₂ 2.61	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.32	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂ 0.09	ZnO 0.65	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



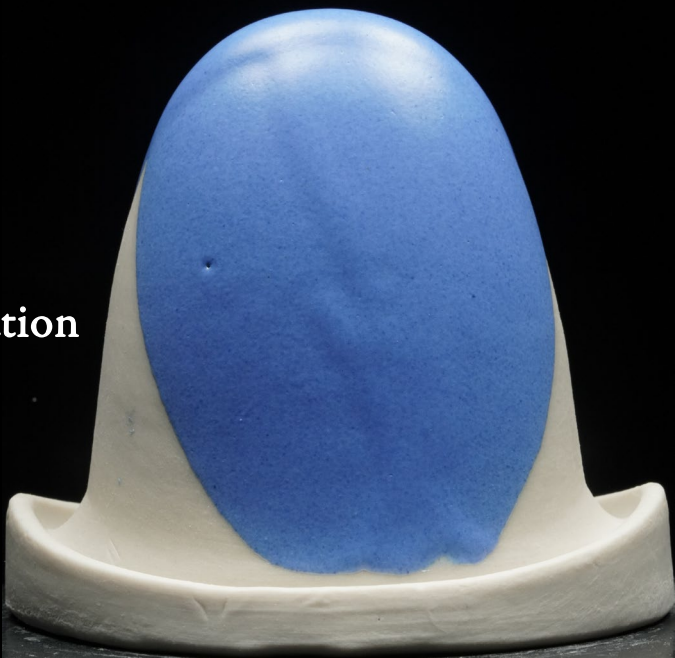
Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	36.04
Zinc Oxide	18.02
EPK	9.01
Flint	27.03
Cobalt Carbonate	0.90
Ultrox (Zircopax)	9.01
Water	80



1-3 Second Dip



2-3 Second Dips

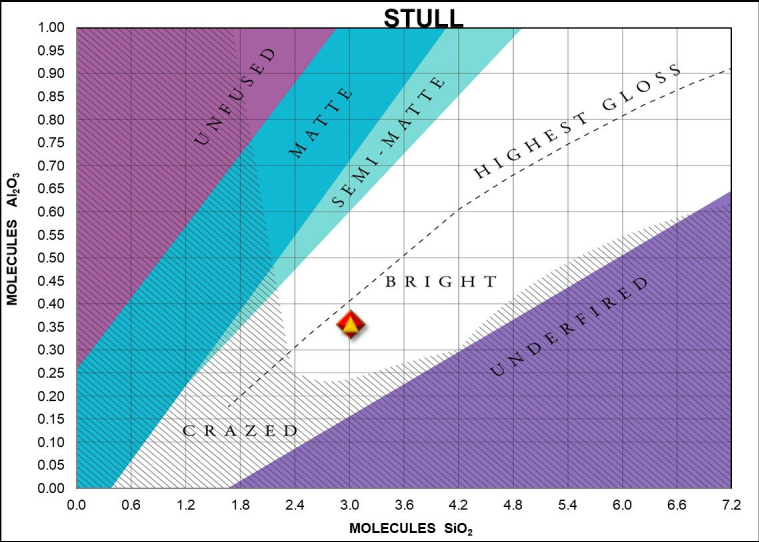
Oxidation



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.44 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 3.02	Collective "Al ₂ O ₃ " 0.36	Na ₂ O 0.19	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.71	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	38.46
Zinc Oxide	19.23
EPK	9.62
Flint	28.85
Chrome Oxide	0.96
Copper Carbonate	2.88
Water	80

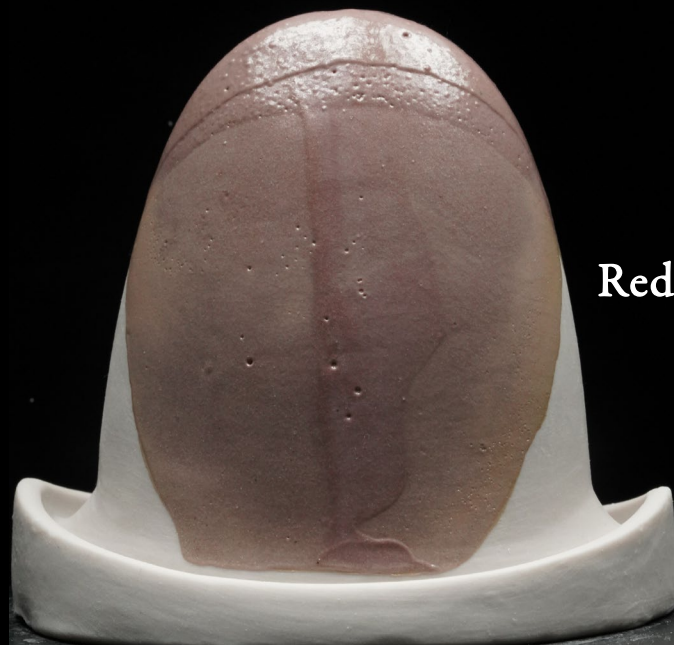


1-3 Second Dip

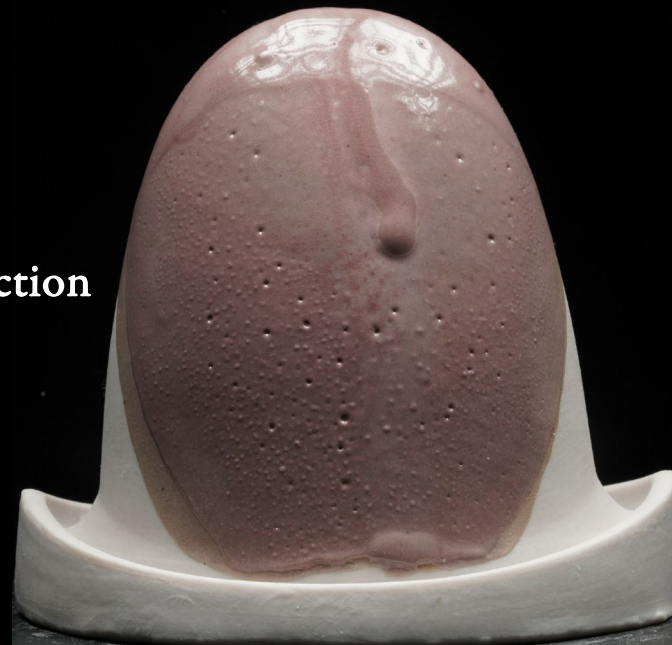


2-3 Second Dips

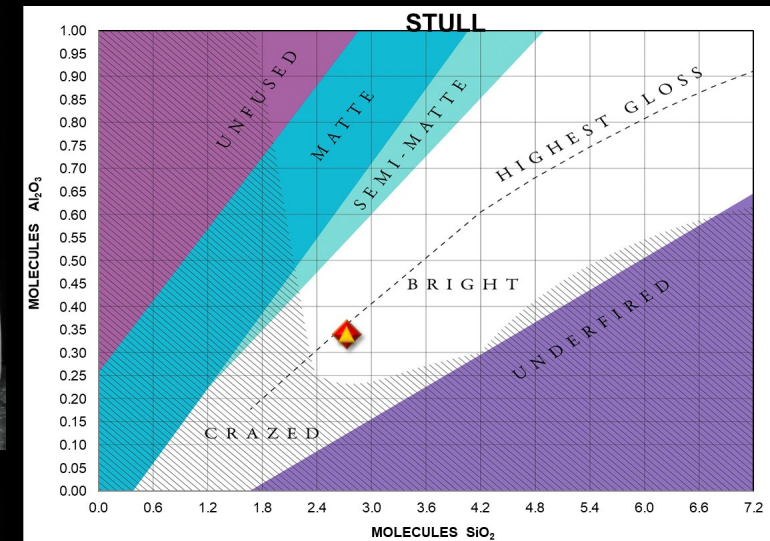
Oxidation



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 2.73	Collective "Al ₂ O ₃ " 0.34	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.34	Li ₂ O	CuO 0.07	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.68	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



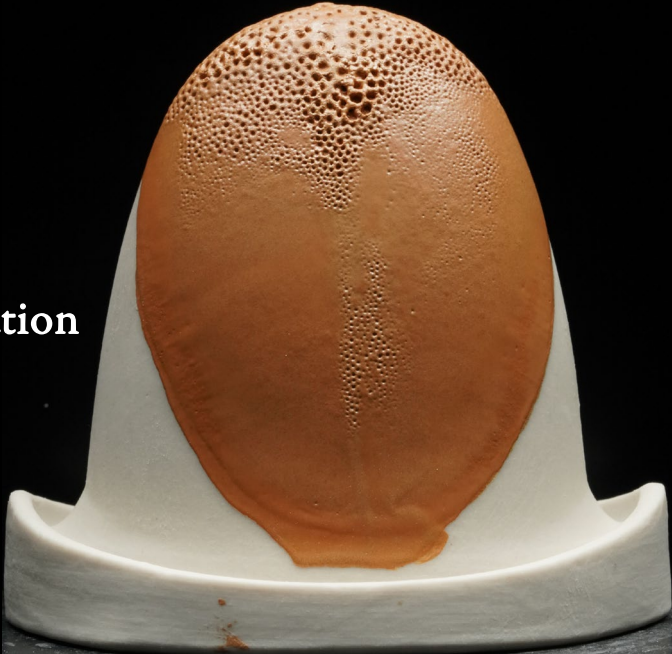
Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	37.38
Zinc Oxide	18.69
EPK	9.35
Flint	28.04
Chrome Oxide	0.93
Red Iron Oxide	5.61
Water	80

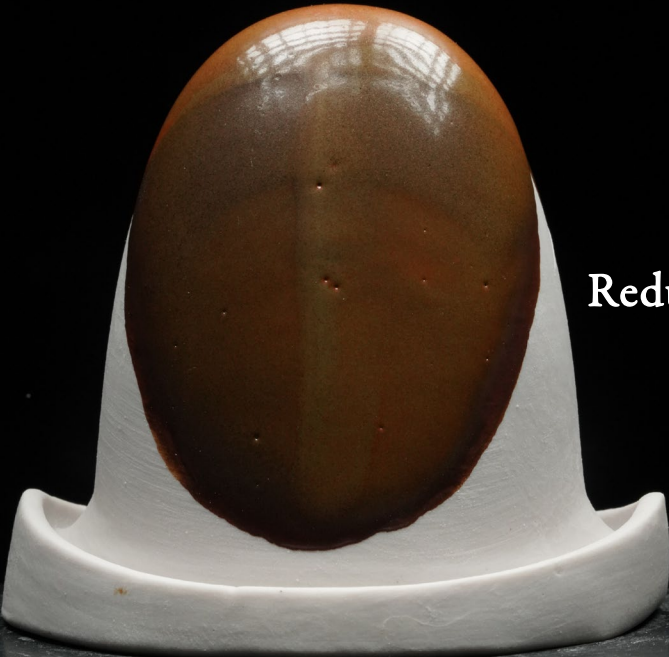


1-3 Second Dip



2-3 Second Dips

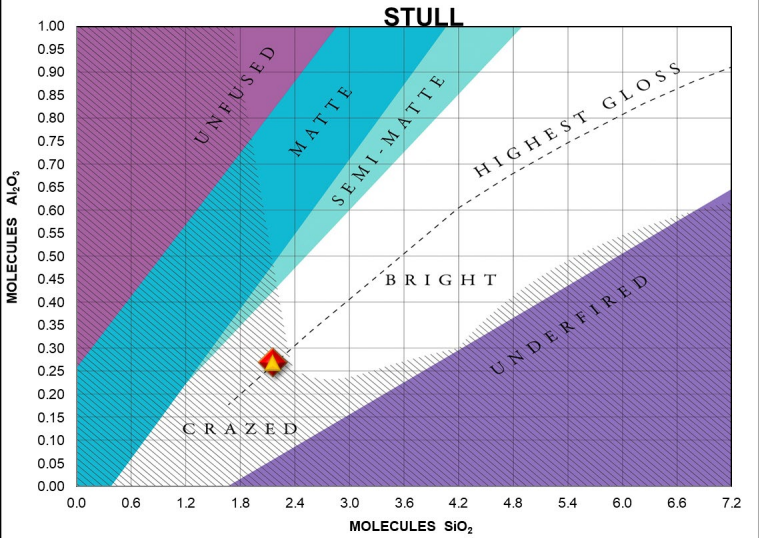
Oxidation



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 2.16	Collective "Al ₂ O ₃ " 0.27	Na ₂ O 0.15	K ₂ O 0.04	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.27	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.54	FeO 0.27
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



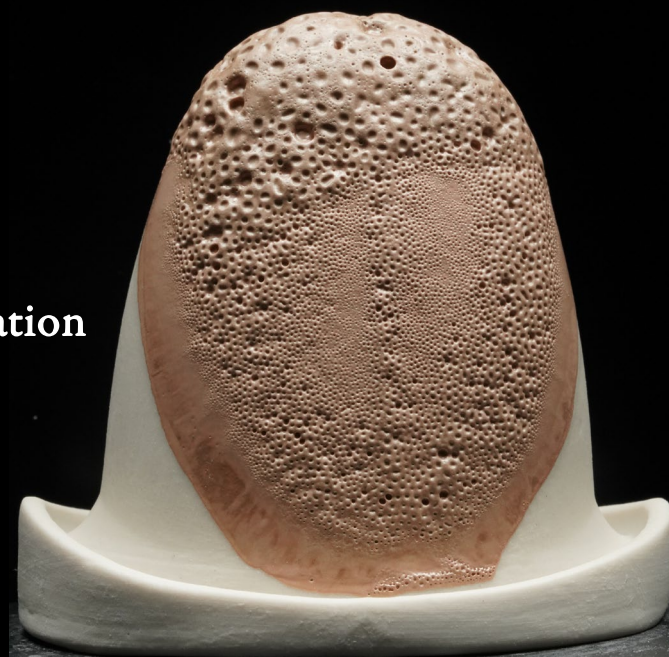
Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	38.46
Zinc Oxide	19.23
EPK	9.62
Flint	28.85
Chrome Oxide	0.96
Manganese Dioxide	2.88
Water	80

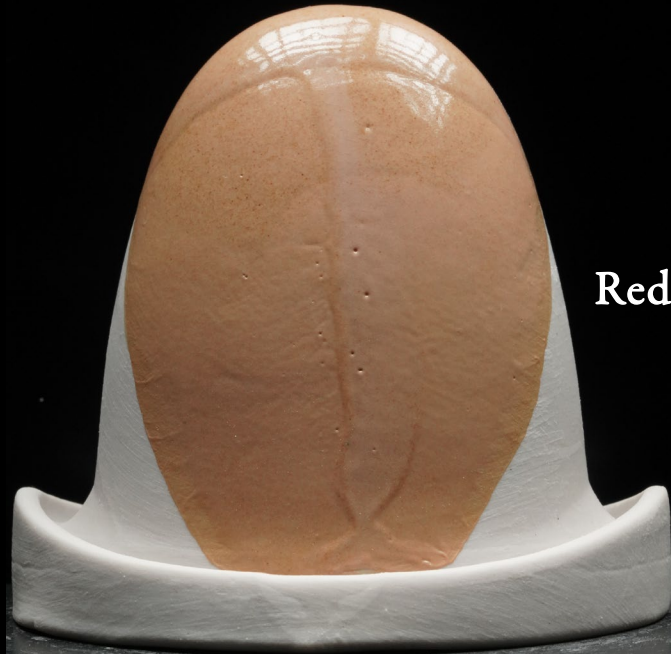


1-3 Second Dip

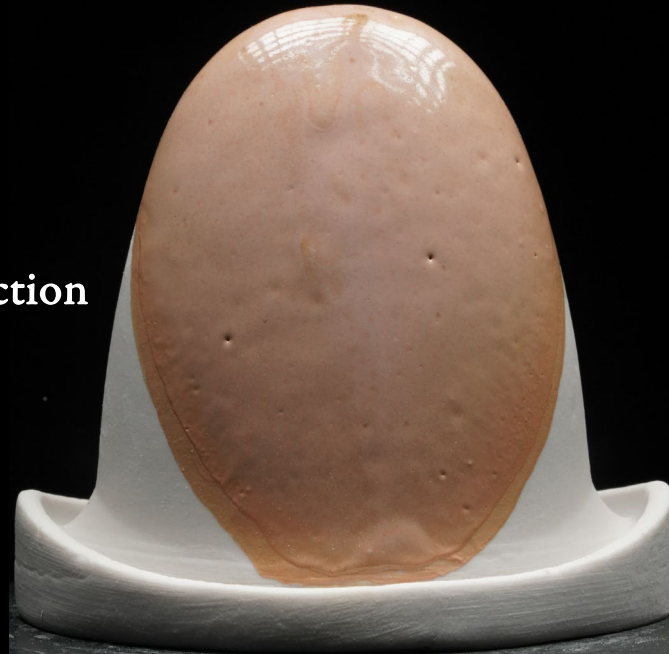


2-3 Second Dips

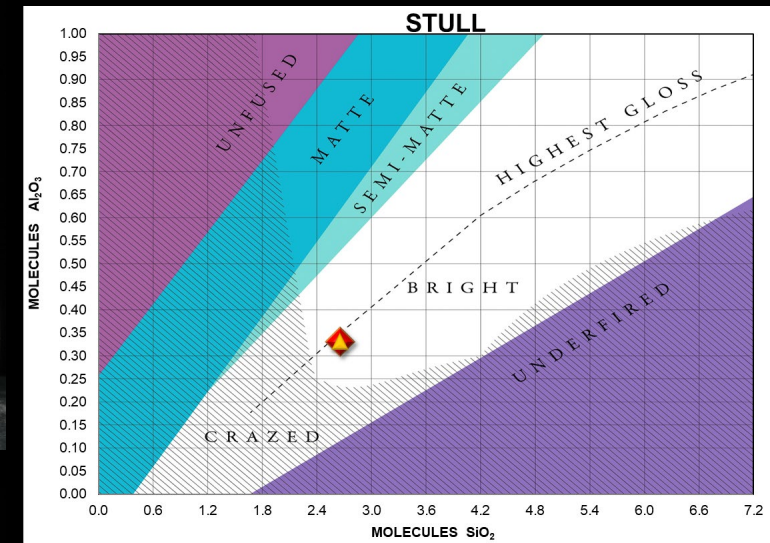
Oxidation



Reduction



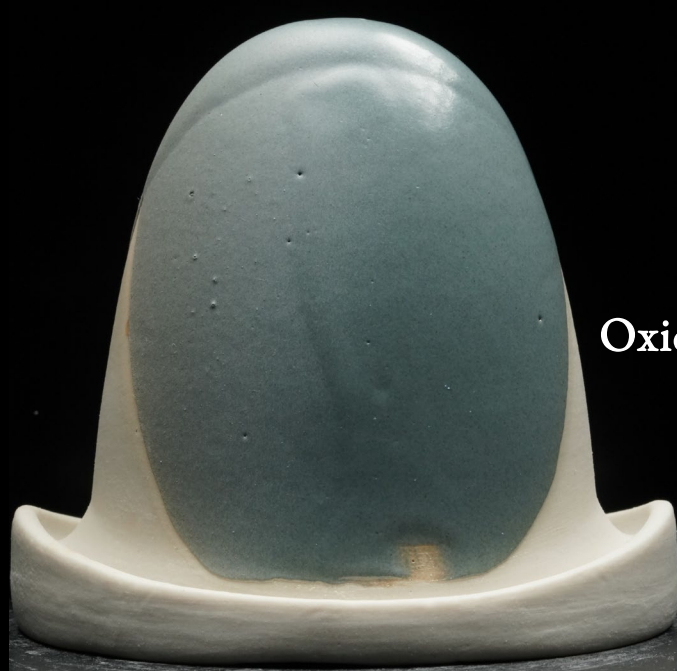
SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.66	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.33	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.66	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂ 0.09	CoO



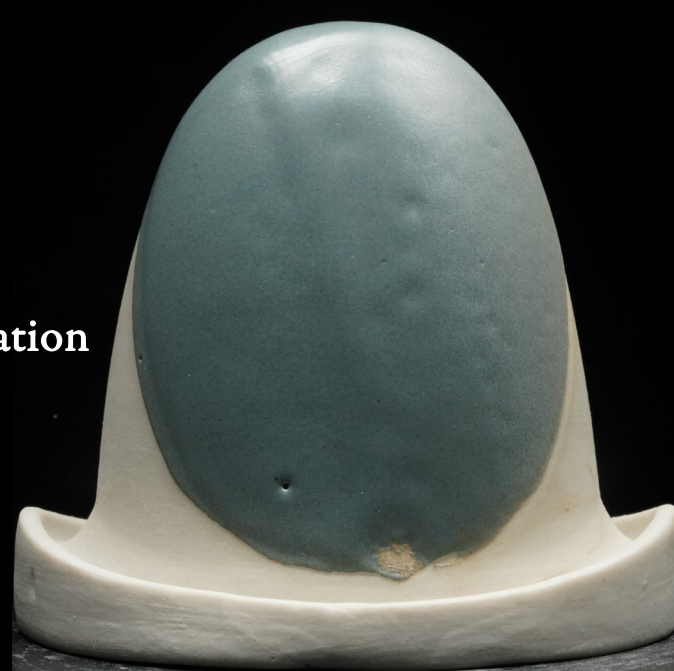
Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	38.65
Zinc Oxide	19.32
EPK	9.66
Flint	28.99
Chrome Oxide	0.97
Nickel Carb (Green)	2.42
Water	80



1-3 Second Dip



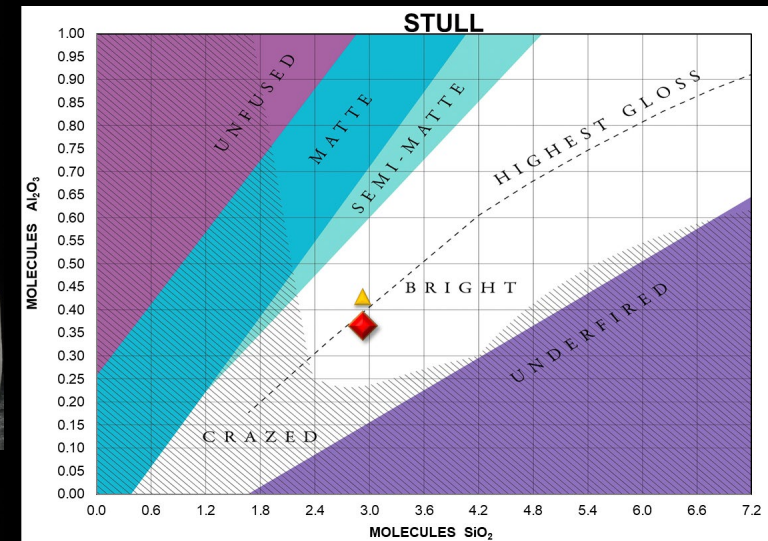
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 2.93	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.06	Bi ₂ O ₃	SnO ₂	ZnO 0.73	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	37.38
Zinc Oxide	18.69
EPK	9.35
Flint	28.04
Chrome Oxide	0.93
Titanium Dioxide	5.61
Water	80

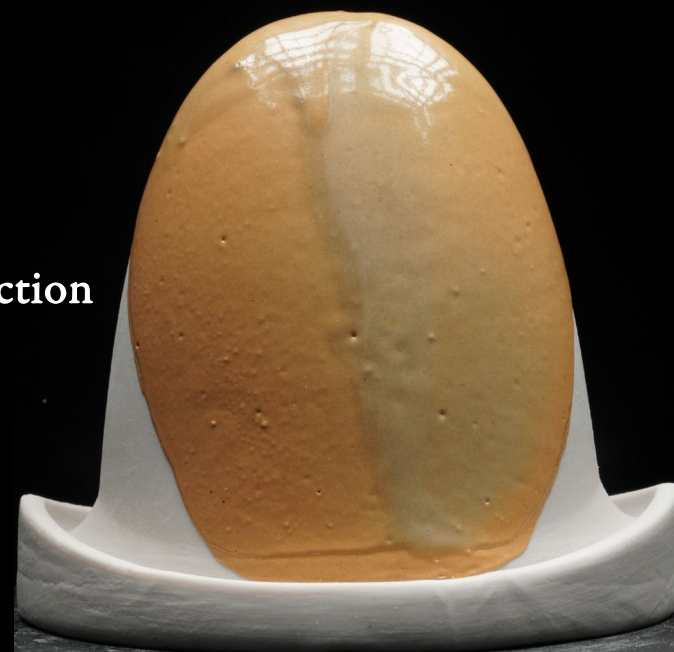
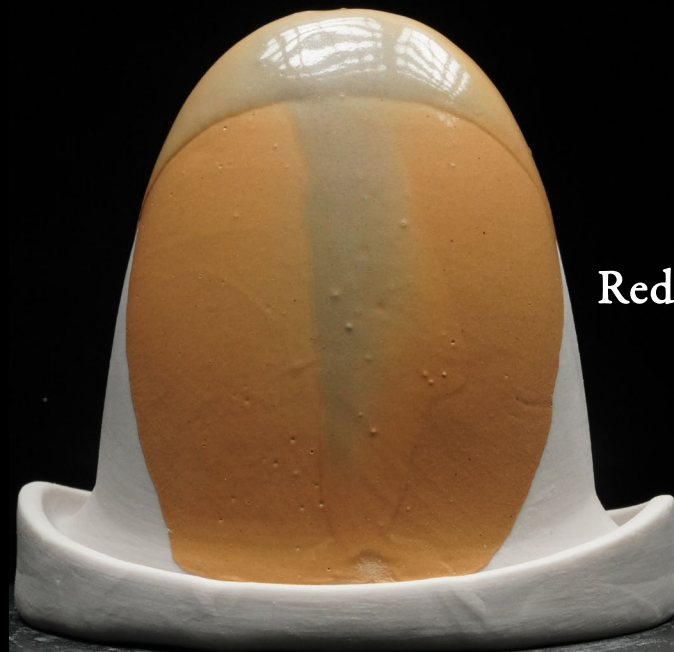


1-3 Second Dip



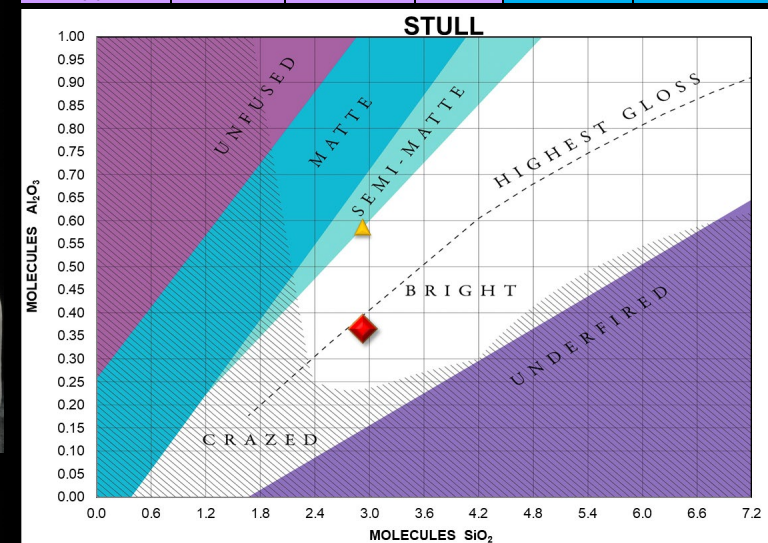
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 2.93	Collective "Al ₂ O ₃ " 0.59	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.22	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.73	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Zinc Pinc

Neph Sy	37.74
Zinc Oxide	18.87
EPK	9.43
Flint	28.30
Chrome Oxide	0.94
Tin Oxide	4.72
Water	80



Oxidation



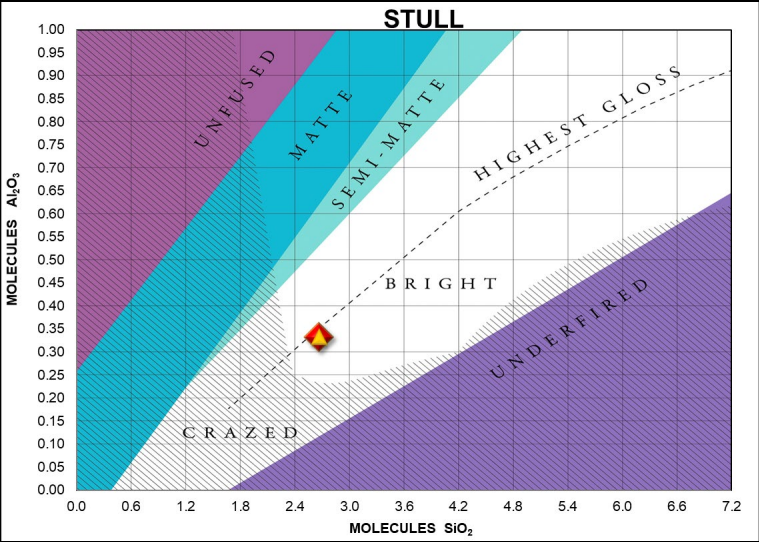
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.00 :1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 2.67	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
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 0.09	ZnO 0.66	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	36.04
Zinc Oxide	18.02
EPK	9.01
Flint	27.03
Chrome Oxide	0.90
Ultrox (Zircopax)	9.01
Water	80



1-3 Second Dip



2-3 Second Dips

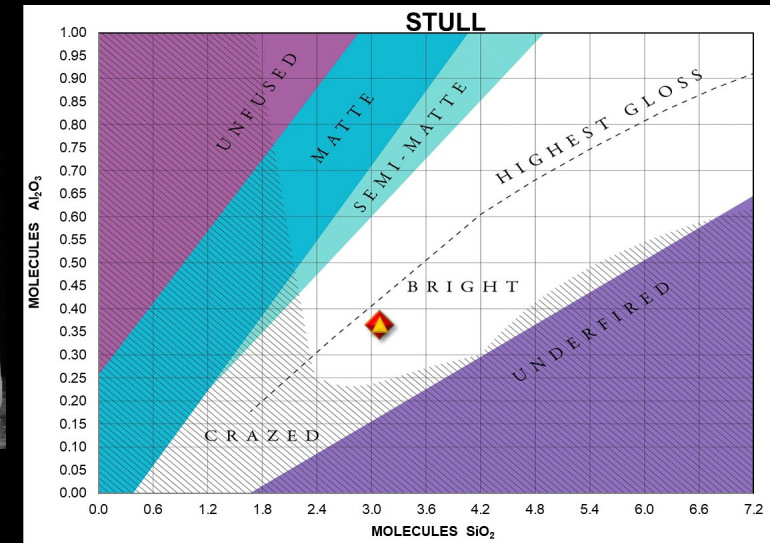
Oxidation



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.44 :1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 3.09	Collective "Al ₂ O ₃ " 0.37	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.73	FeO 0.01
Cr ₂ O ₃ 0.02	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
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Zinc Pinc

Neph Sy	36.70
Zinc Oxide	18.35
EPK	9.17
Flint	27.52
Copper Carbonate	2.75
Red Iron Oxide	5.50
Water	80



1-3 Second Dip



2-3 Second Dips

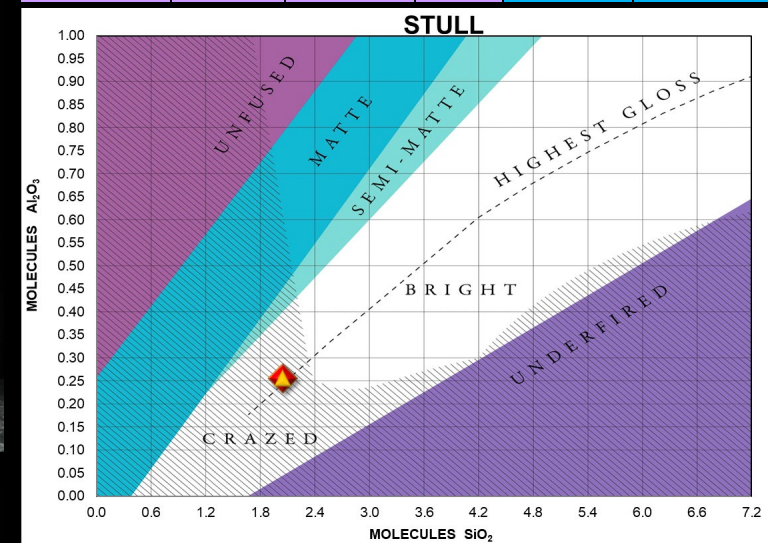
Oxidation



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.05	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.14	K ₂ O 0.04	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.51	FeO 0.25
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Zinc Pinc

Oxidation



1-3 Second Dip

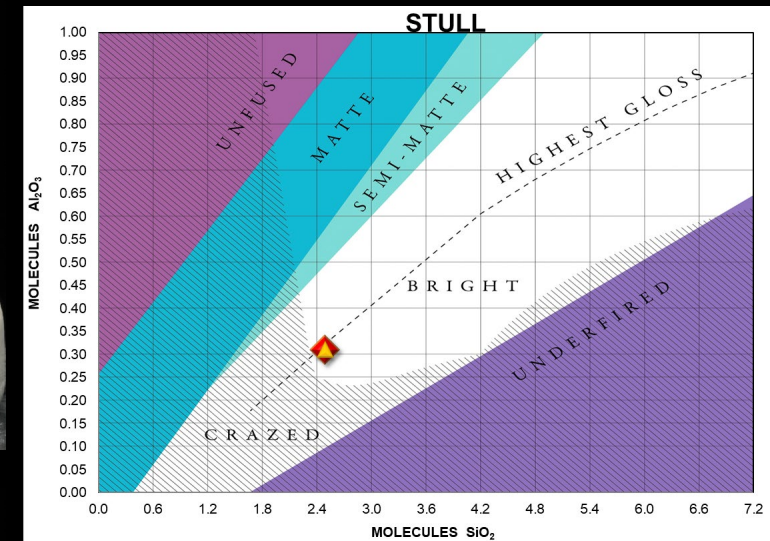


2-3 Second Dips

Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.28		Alkaline Earths 0.72	
SiO ₂ 2.49	Collective "Al ₂ O ₃ " 0.31	Na ₂ O 0.17	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.31	Li ₂ O	CuO 0.06	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.62	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.09	CoO



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Zinc Pinc

Neph Sy	37.91
Zinc Oxide	18.96
EPK	9.48
Flint	28.44
Copper Carbonate	2.84
Nickel Carb (Green)	2.37
Water	80

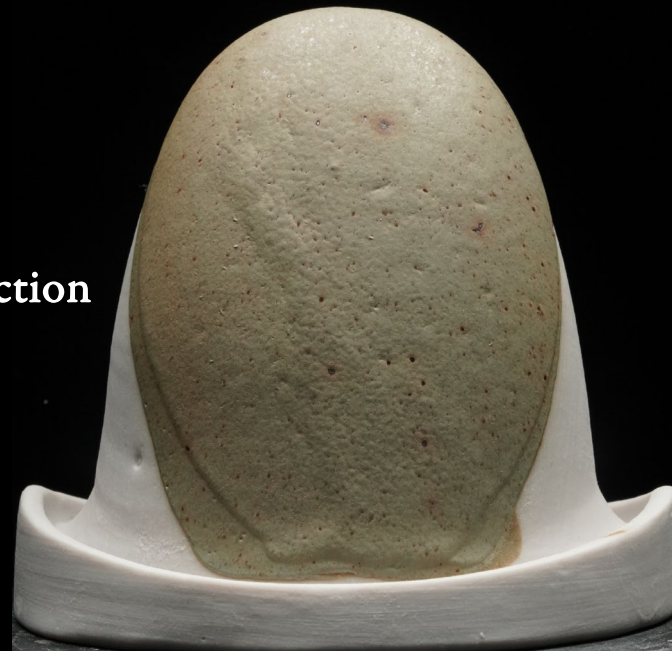


1-3 Second Dip



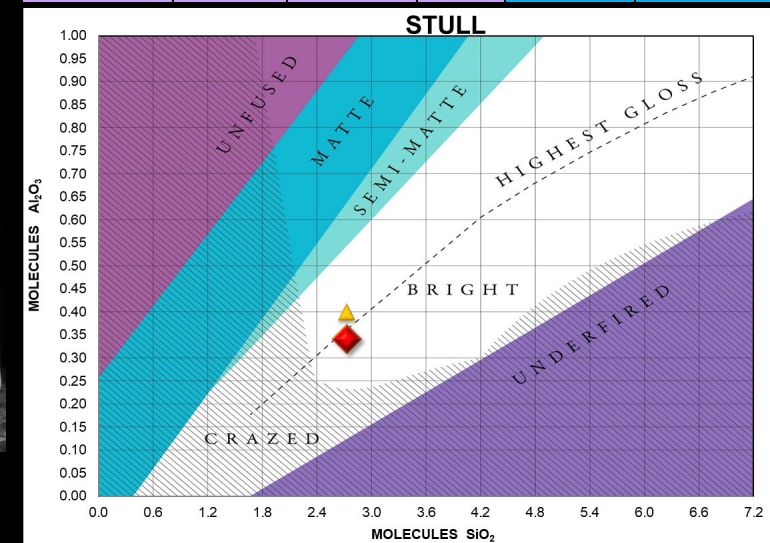
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 2.73	Collective "Al ₂ O ₃ " 0.40	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.34	Li ₂ O	CuO 0.07	SrO	BaO
TiO ₂ 0.00	NiO 0.06	Bi ₂ O ₃	SnO ₂	ZnO 0.68	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Zinc Pinc

Oxidation



1-3 Second Dip

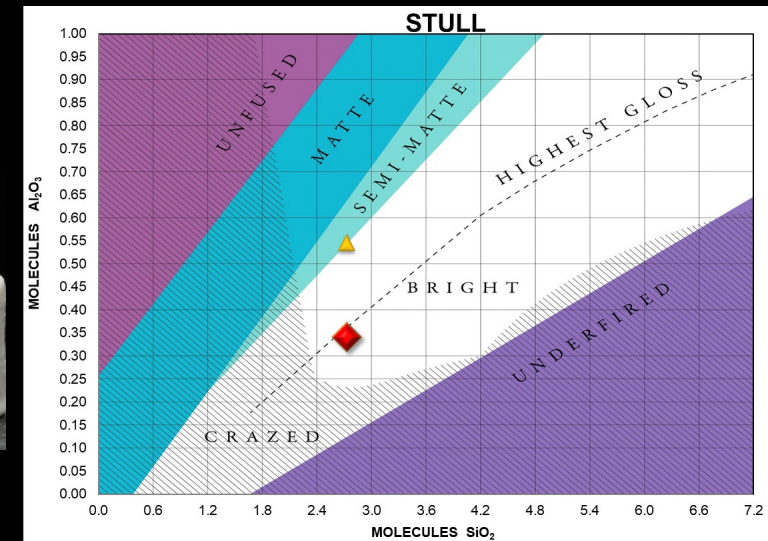


2-3 Second Dips

Reduction



SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 2.73	Collective "Al ₂ O ₃ " 0.55	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.34	Li ₂ O	CuO 0.07	SrO	BaO
TiO ₂ 0.21	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.68	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Neph Sy	36.70
Zinc Oxide	18.35
EPK	9.17
Flint	27.52
Copper Carbonate	2.75
Titanium Dioxide	5.50
Water	80



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Zinc Pinc

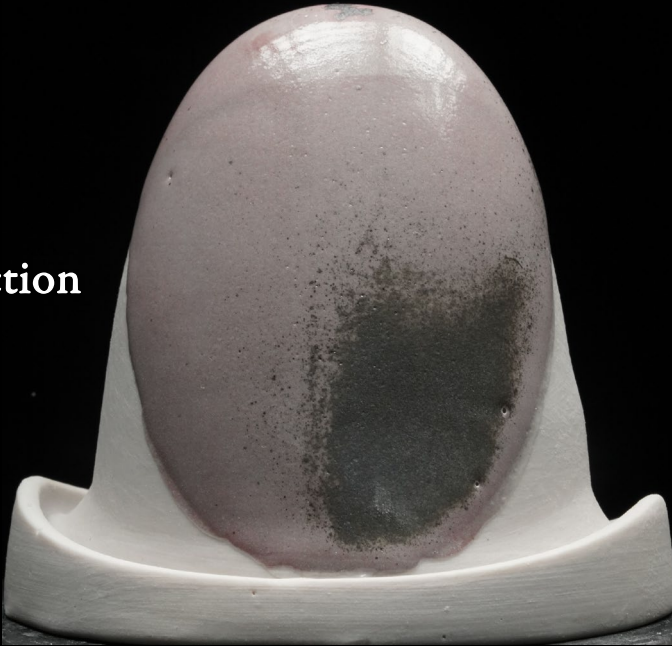
Neph Sy	37.04
Zinc Oxide	18.52
EPK	9.26
Flint	27.78
Copper Carbonate	2.78
Tin Oxide	4.63
Water	80



1-3 Second Dip



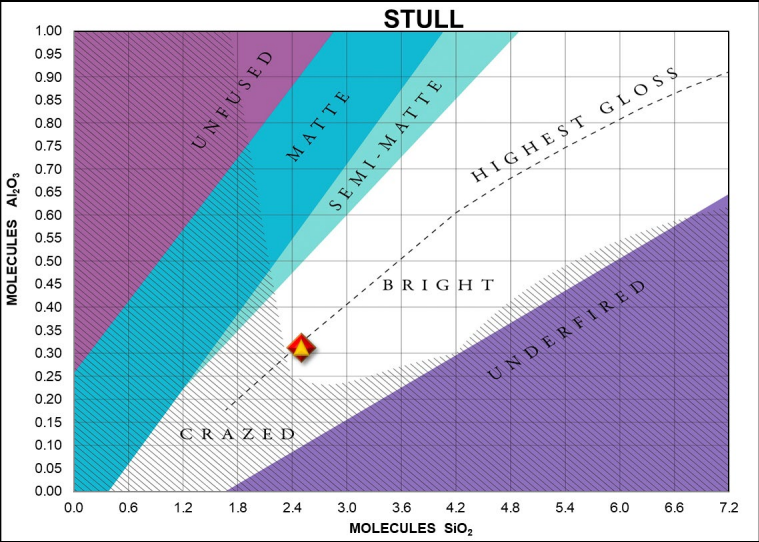
2-3 Second Dips



Reduction

Oxidation

SiO ₂ :Al ₂ O ₃ Ratio 8.00 :1		Alkali Metals 0.36		Alkaline Earths 0.64	
SiO ₂ 2.50	Collective "Al ₂ O ₃ " 0.31	Na ₂ O 0.17	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.31	Li ₂ O	CuO 0.06	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂ 0.08	ZnO 0.62	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
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Zinc Pinc

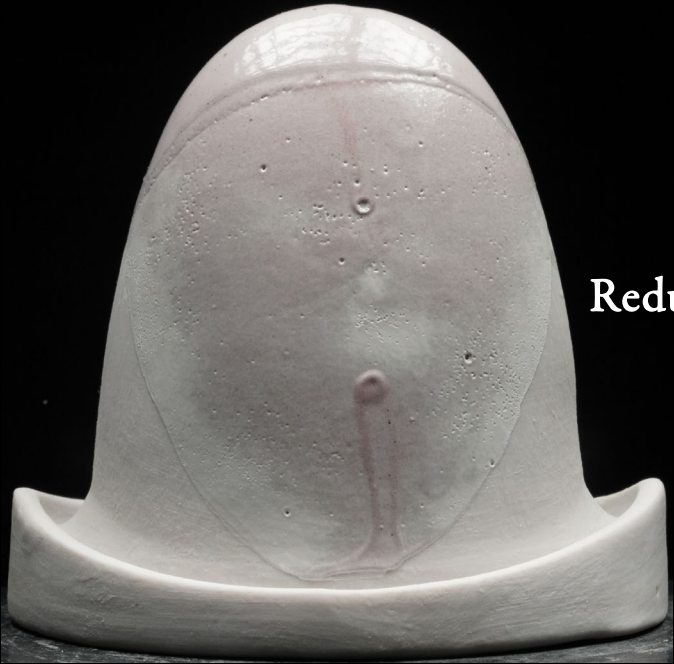
Neph Sy	35.40
Zinc Oxide	17.70
EPK	8.85
Flint	26.55
Copper Carbonate	2.65
Ultrax (Zircopax)	8.85
Water	80



Oxidation



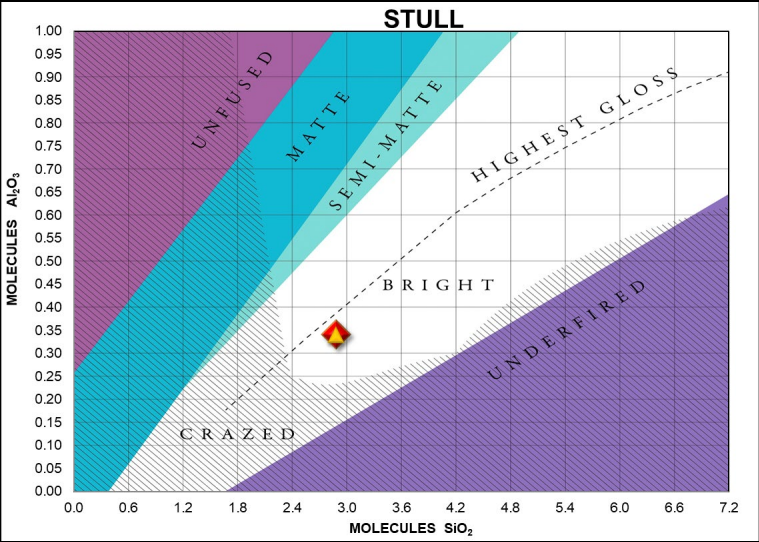
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.44 :1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 2.88	Collective "Al ₂ O ₃ " 0.34	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.34	Li ₂ O	CuO 0.07	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.68	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Zinc Pinc

Neph Sy	36.70
Zinc Oxide	18.35
EPK	9.17
Flint	27.52
Red Iron Oxide	5.50
Manganese Dioxide	2.75
Water	80



1-3 Second Dip



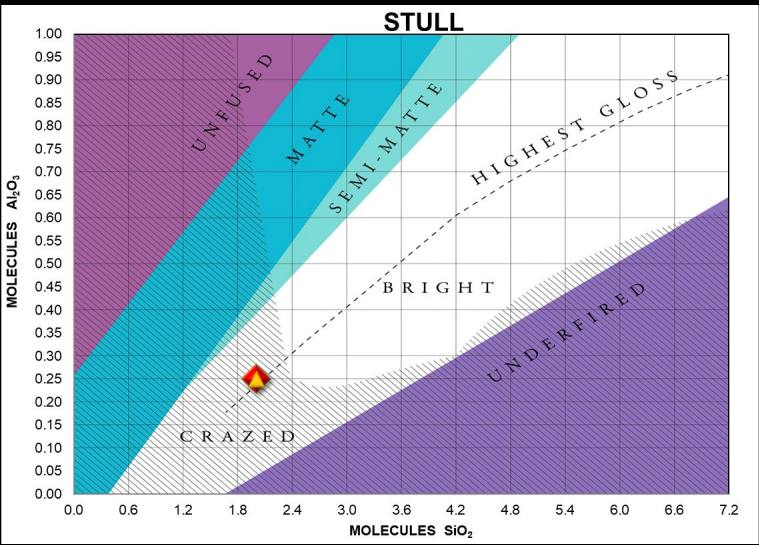
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO ₂ 2.01	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.14	K ₂ O 0.04	MgO 0.00	CaO 0.01
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 0.50	FeO 0.25
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.07	CoO



Ceramic
Materials
Workshop

Zinc Pinc

Oxidation



1-3 Second Dip

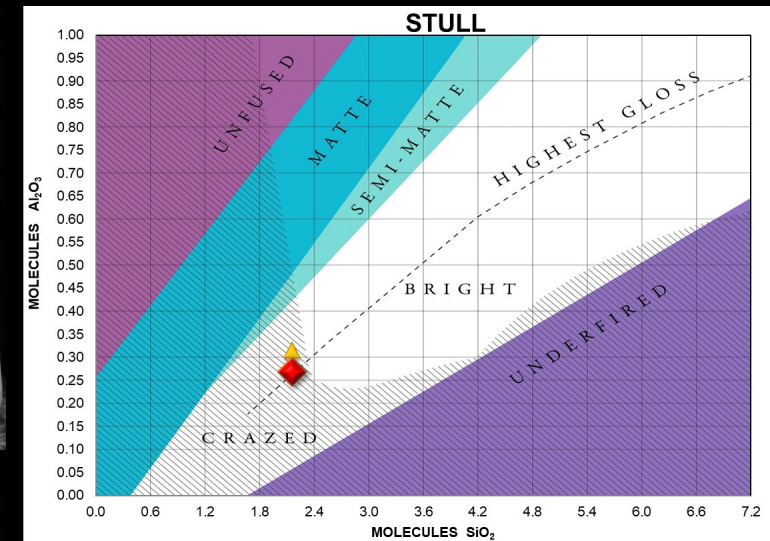


2-3 Second Dips

Reduction



SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 2.16	Collective "Al ₂ O ₃ " 0.32	Na ₂ O 0.15	K ₂ O 0.04	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.27	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.05	Bi ₂ O ₃	SnO ₂	ZnO 0.54	FeO 0.27
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Zinc Pinc

Neph Sy	35.71
Zinc Oxide	17.86
EPK	8.93
Flint	26.79
Red Iron Oxide	5.36
Titanium Dioxide	5.36
Water	80



1-3 Second Dip



2-3 Second Dips

Oxidation



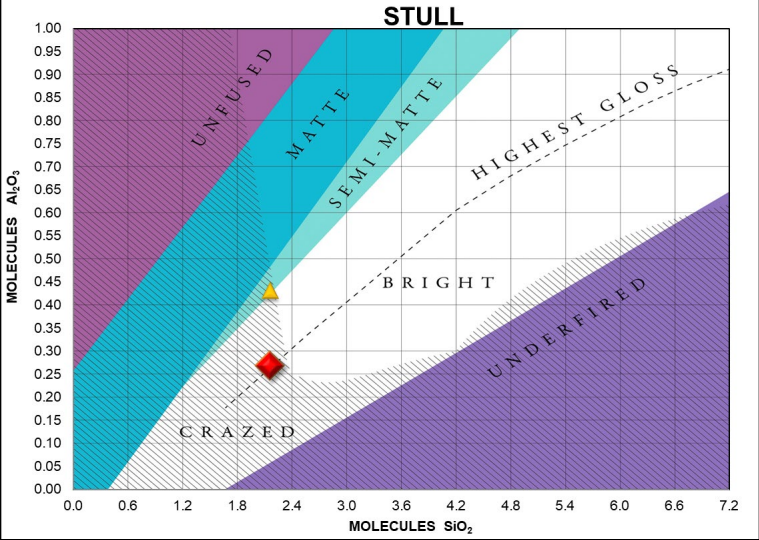
1-3 Second Dip



2-3 Second Dips

Reduction

SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 2.16	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.15	K ₂ O 0.04	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.27	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.16	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.54	FeO 0.27
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
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Zinc Pinc

Neph Sy	36.04
Zinc Oxide	18.02
EPK	9.01
Flint	27.03
Red Iron Oxide	5.41
Tin Oxide	4.50
Water	80

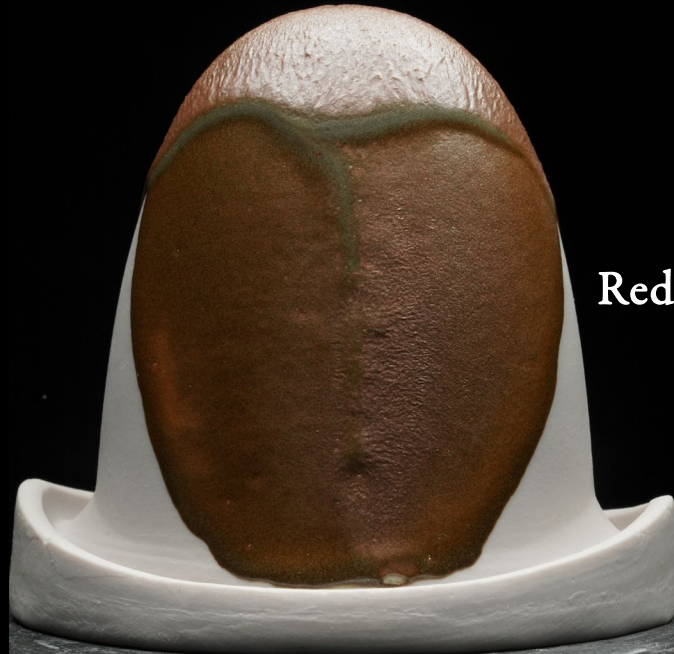


1-3 Second Dip

Oxidation



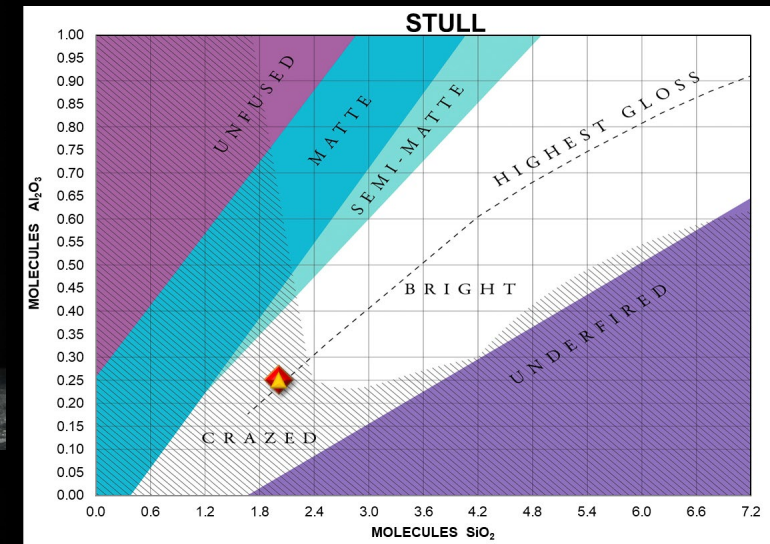
2-3 Second Dips



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 2.01	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.14	K ₂ O 0.04	MgO 0.00	CaO 0.01
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 0.07	ZnO 0.50	FeO 0.25
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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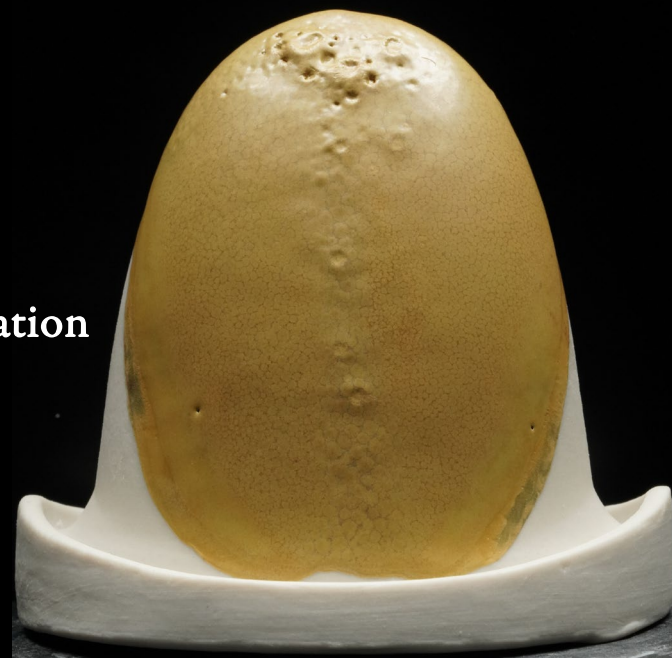
ceramicmaterialsworkshop.com

Zinc Pinc

Neph Sy	34.48
Zinc Oxide	17.24
EPK	8.62
Flint	25.86
Red Iron Oxide	5.17
Ultrox (Zircopax)	8.62
Water	80



1-3 Second Dip



2-3 Second Dips

Oxidation



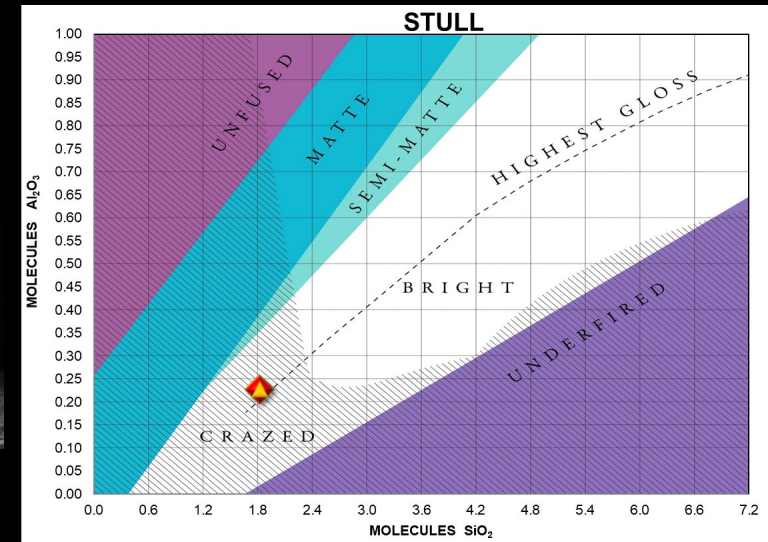
1-3 Second Dip



2-3 Second Dips

Reduction

SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.16		Alkaline Earths 0.84	
SiO ₂ 1.82	Collective "Al ₂ O ₃ " 0.23	Na ₂ O 0.12	K ₂ O 0.04	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.23	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.45	FeO 0.23
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.16



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Zinc Pinc

Neph Sy	37.91
Zinc Oxide	18.96
EPK	9.48
Flint	28.44
Manganese Dioxide	2.84
Nickel Carb (Green)	2.37
Water	80



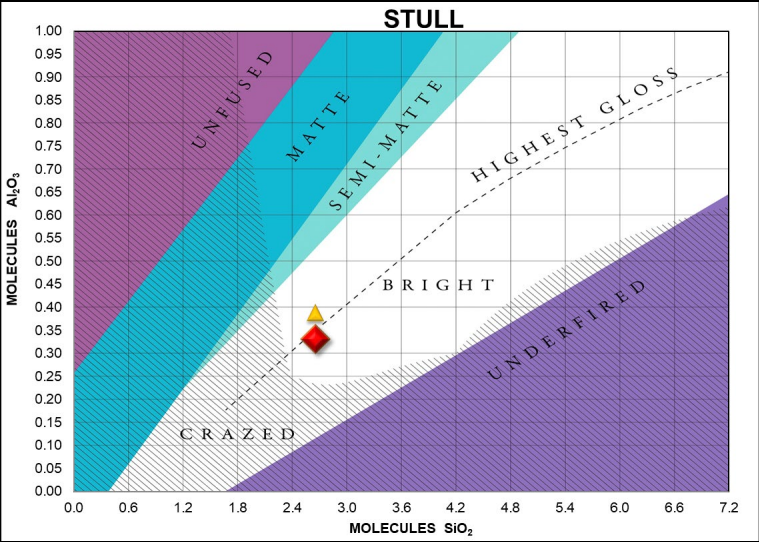
Oxidation



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.66	Collective "Al ₂ O ₃ " 0.39	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.33	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.06	Bi ₂ O ₃	SnO ₂	ZnO 0.66	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.09	CoO



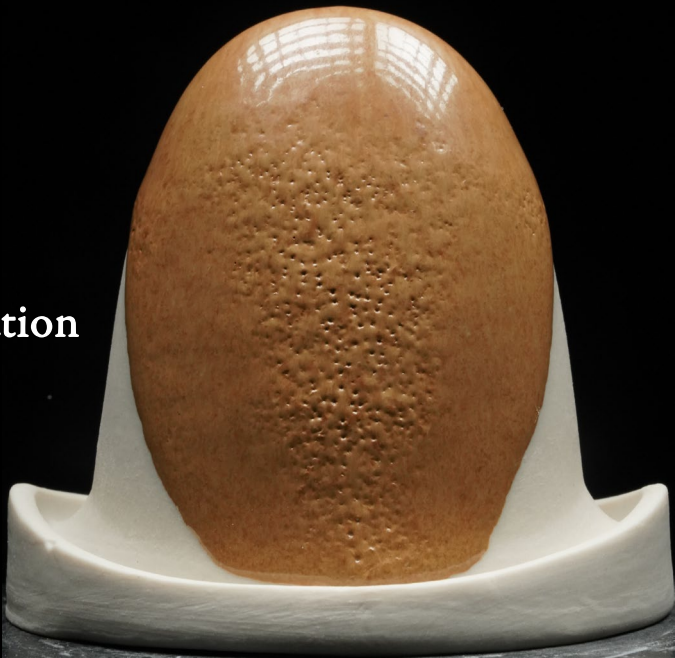
Ceramic
Materials
Workshop

Zinc Pinc

Neph Sy	36.70
Zinc Oxide	18.35
EPK	9.17
Flint	27.52
Manganese Dioxide	2.75
Titanium Dioxide	5.50
Water	80



1-3 Second Dip



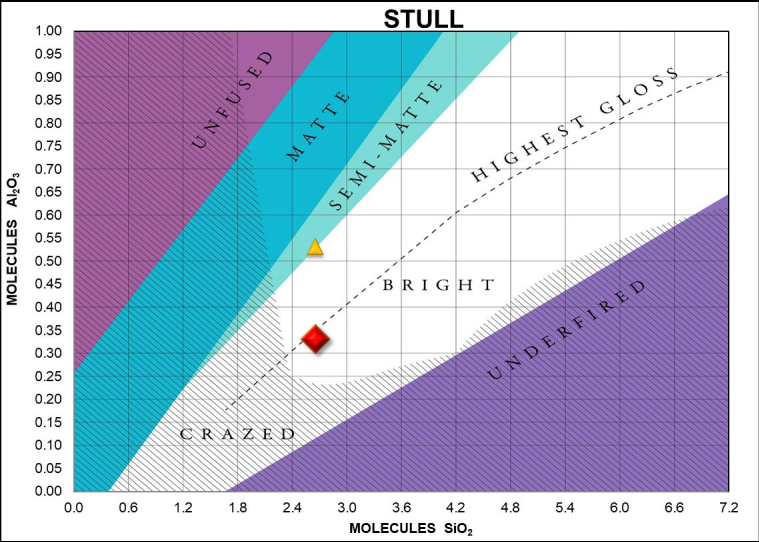
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.66	Collective "Al ₂ O ₃ " 0.53	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.33	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.20	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.66	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.09	CoO



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Zinc Pinc

Neph Sy	37.04
Zinc Oxide	18.52
EPK	9.26
Flint	27.78
Manganese Dioxide	2.78
Tin Oxide	4.63
Water	80



1-3 Second Dip



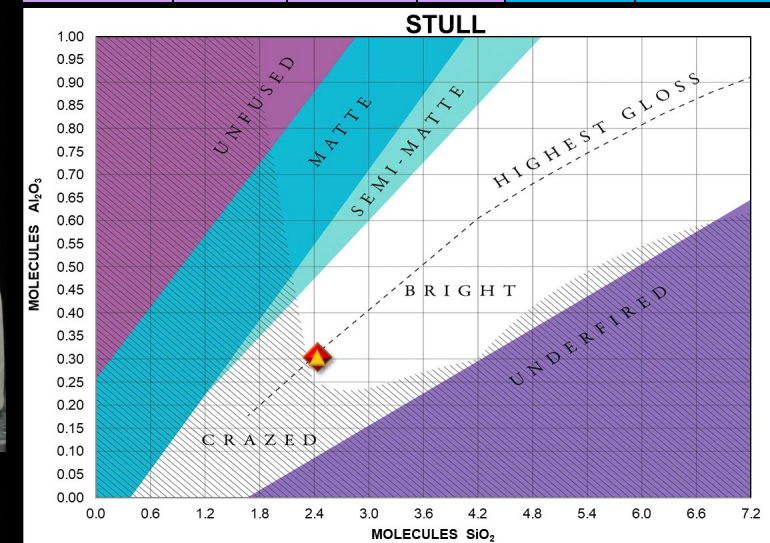
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 8.00 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 2.44	Collective "Al ₂ O ₃ " 0.30	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.00	CaO 0.01
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 0.08	ZnO 0.61	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.09	CoO



Ceramic
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Zinc Pinc

Neph Sy	35.40
Zinc Oxide	17.70
EPK	8.85
Flint	26.55
Manganese Dioxide	2.65
Ultrox (Zircopax)	8.85
Water	80



1-3 Second Dip

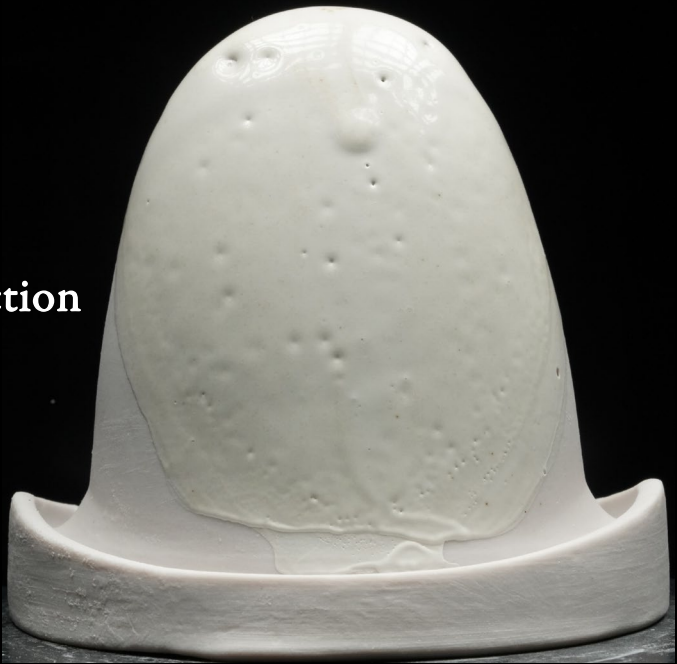


2-3 Second Dips

Oxidation



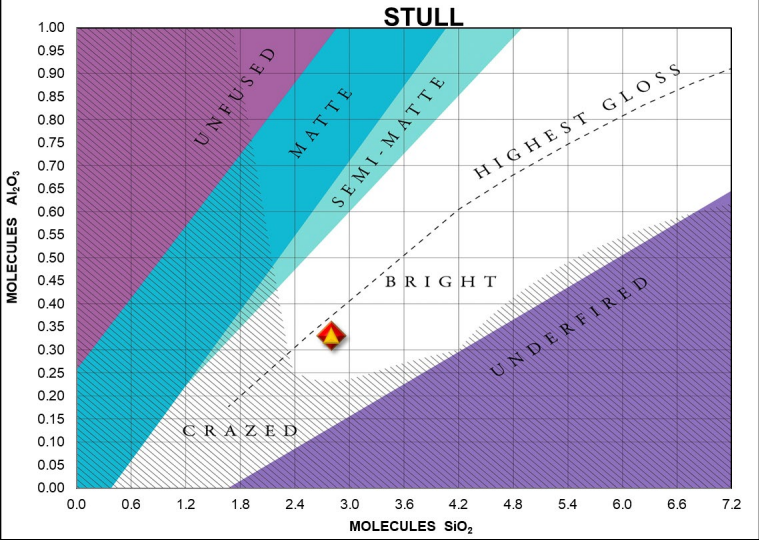
1-3 Second Dip



2-3 Second Dips

Reduction

SiO ₂ :Al ₂ O ₃ Ratio 8.44 :1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.80	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
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 0.66	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.09	CoO



Ceramic
Materials
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Zinc Pinc

Neph Sy	36.87
Zinc Oxide	18.43
EPK	9.22
Flint	27.65
Nickel Carb (Green)	2.30
Titanium Dioxide	5.53
Water	80

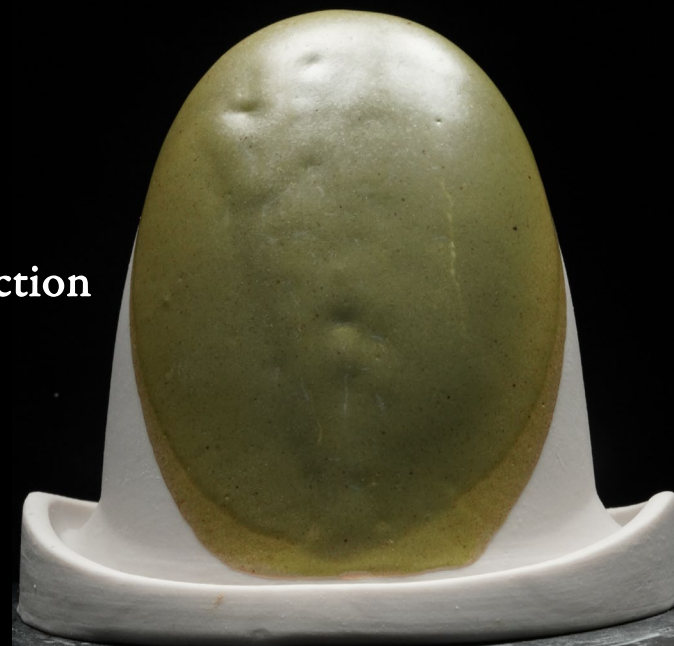


1-3 Second Dip



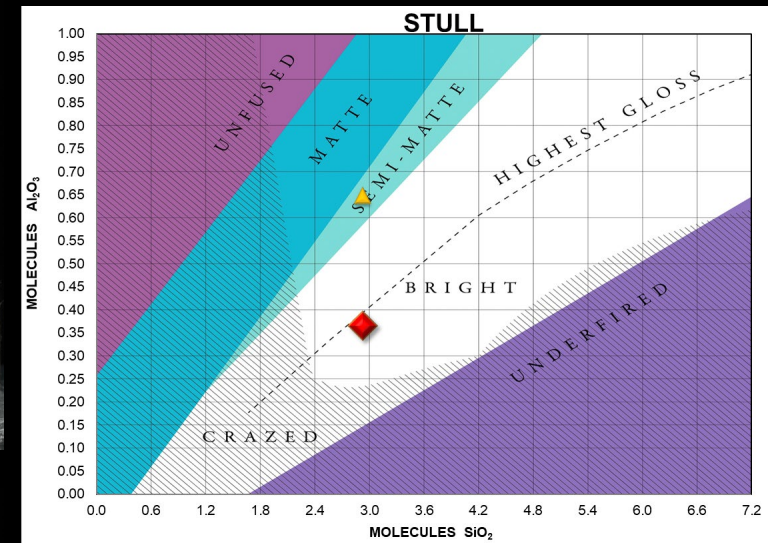
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 4.51 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 2.93	Collective "Al ₂ O ₃ " 0.65	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.22	NiO 0.06	Bi ₂ O ₃	SnO ₂	ZnO 0.73	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

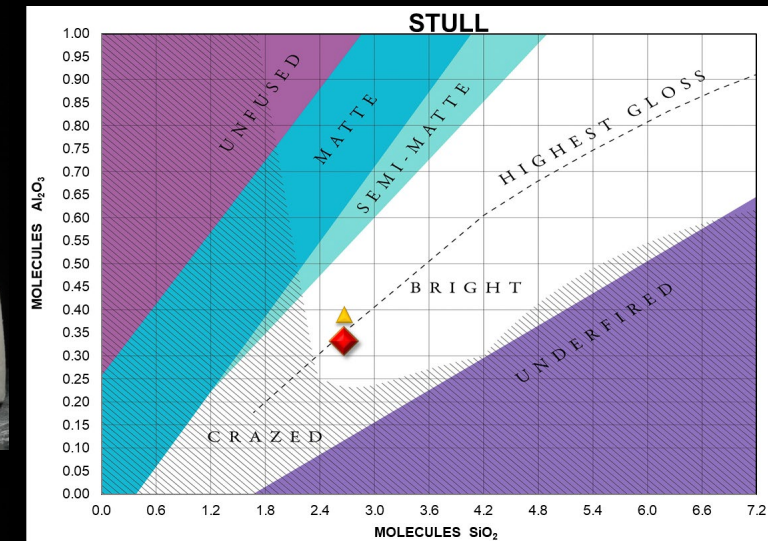


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Zinc Pinc

Oxidation

SiO ₂ :Al ₂ O ₃ Ratio 6.83 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 2.67	Collective "Al ₂ O ₃ " 0.39	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.33	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.06	Bi ₂ O ₃	SnO ₂ 0.09	ZnO 0.66	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



1-3 Second Dip

2-3 Second Dips

Reduction

Neph Sy	37.21
Zinc Oxide	18.60
EPK	9.30
Flint	27.91
Nickel Carb (Green)	2.33
Tin Oxide	4.65
Water	80



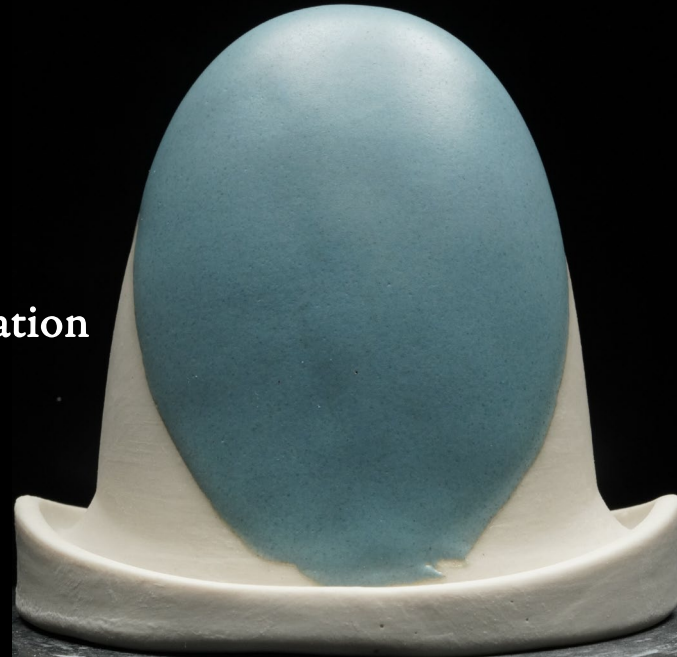
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Neph Sy	35.56
Zinc Oxide	17.78
EPK	8.89
Flint	26.67
Nickel Carb (Green)	2.22
Ultrax (Zircopax)	8.89
Water	80



1-3 Second Dip

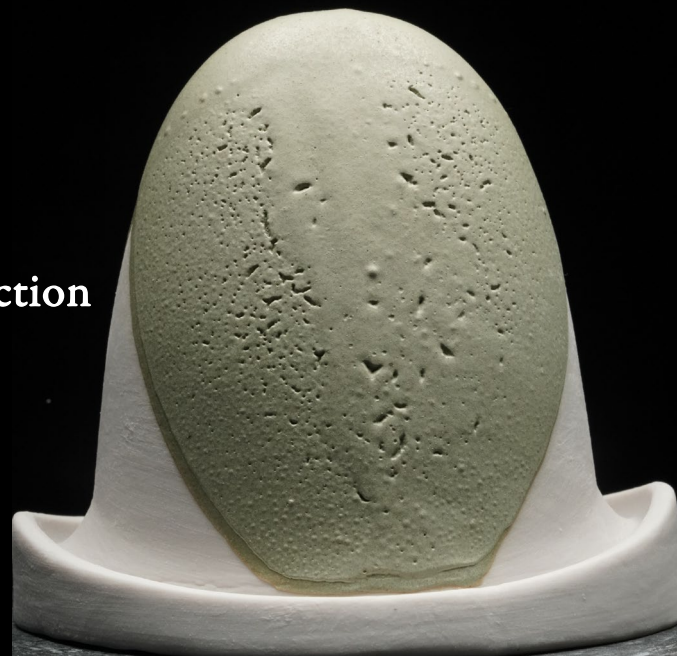


2-3 Second Dips

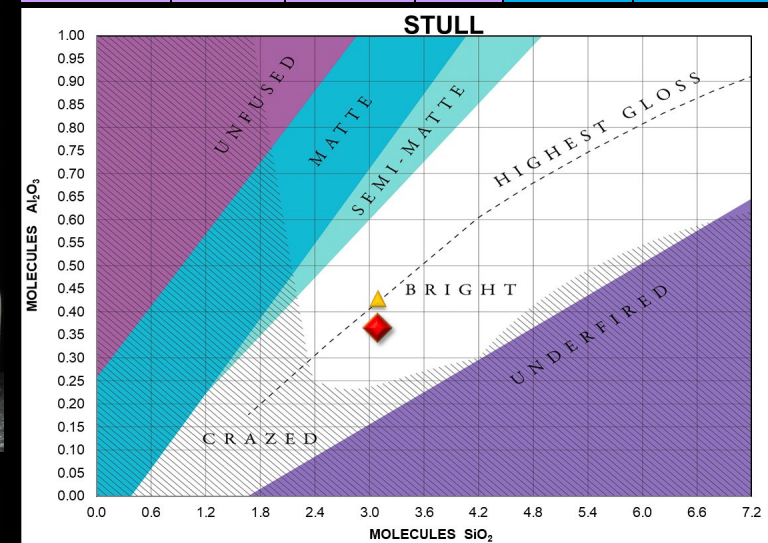
Oxidation



Reduction



SiO ₂ :Al ₂ O ₃ Ratio 7.21 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 3.09	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.06	Bi ₂ O ₃	SnO ₂	ZnO 0.73	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Zinc Pinc

Neph Sy	36.04
Zinc Oxide	18.02
EPK	9.01
Flint	27.03
Titanium Dioxide	5.41
Tin Oxide	4.50
Water	80



1-3 Second Dip



2-3 Second Dips

Oxidation



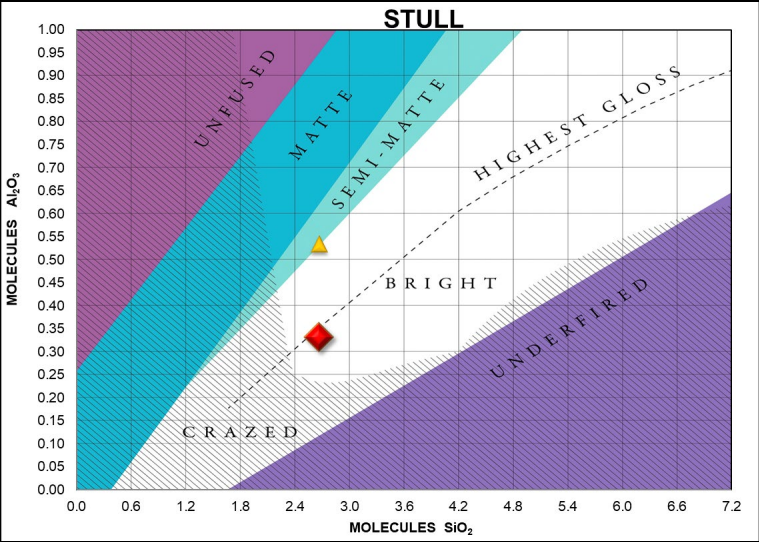
1-3 Second Dip



2-3 Second Dips

Reduction

SiO ₂ :Al ₂ O ₃ Ratio 4.99 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 2.67	Collective "Al ₂ O ₃ " 0.53	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.33	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.20	NiO	Bi ₂ O ₃	SnO ₂ 0.09	ZnO 0.66	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Zinc Pinc

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



1-3 Second Dip



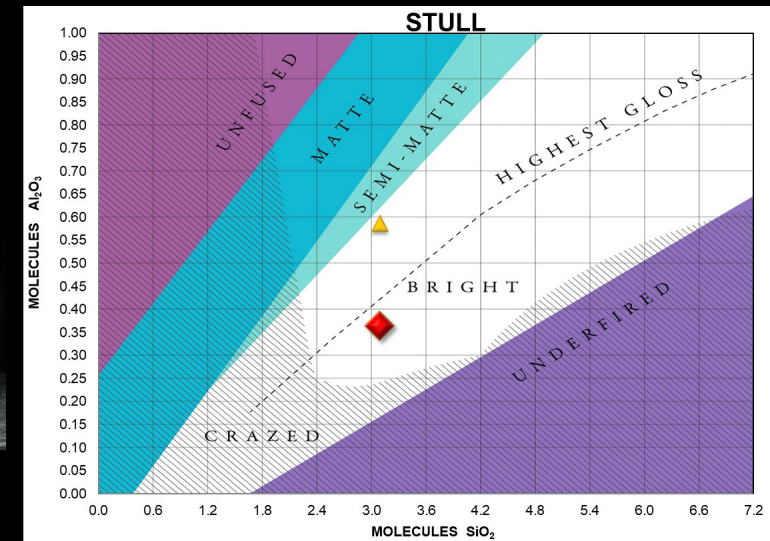
2-3 Second Dips

Oxidation



Reduction

SiO ₂ :Al ₂ O ₃ Ratio 5.27 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 3.09	Collective "Al ₂ O ₃ " 0.59	Na ₂ O 0.20	K ₂ O 0.06	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.22	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.73	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Zinc Pinc

Oxidation



1-3 Second Dip



2-3 Second Dips

Reduction



SiO ₂ :Al ₂ O ₃ Ratio 8.44 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 2.81	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
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 0.09	ZnO 0.66	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

