

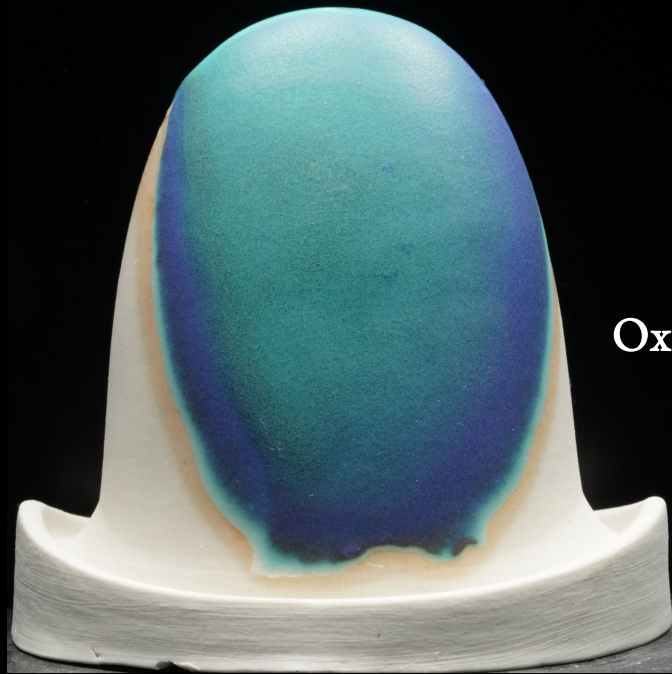
Peacock- Δ 10

Lab 2-Flux Capacity

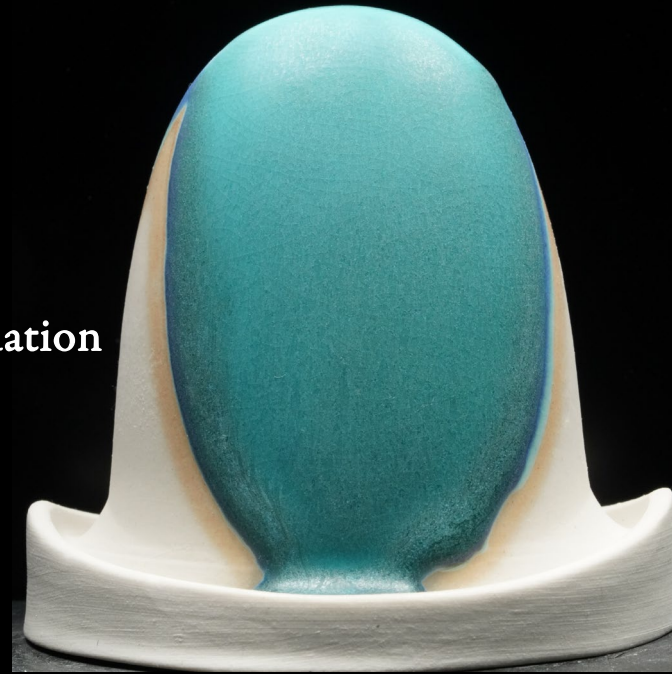
Peacock

Original
062922-1

Neph Sy	36.62
Barium Carb	46.57
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



1-3 Second Dip



2-3 Second Dips

Oxidation

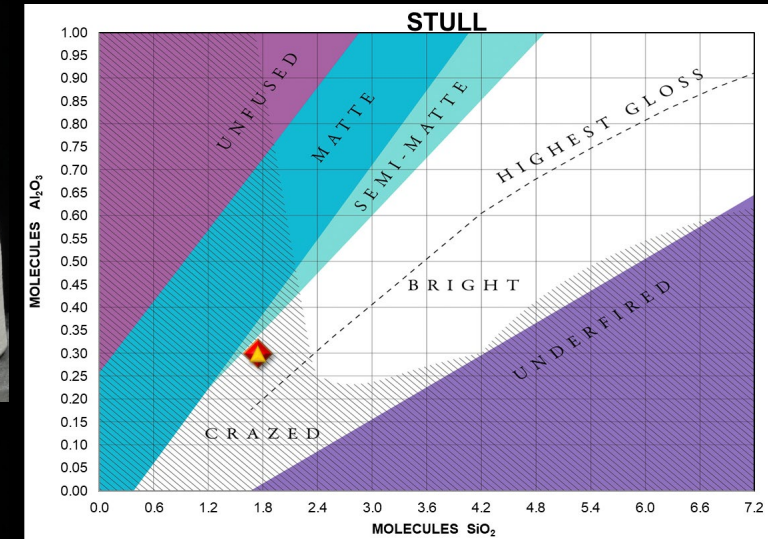


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.80 :1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 1.88	Collective "Al ₂ O ₃ " 0.32	Na ₂ O 0.19	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 0.74
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 5.80 :1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 1.74	Collective "Al ₂ O ₃ " 0.30	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.30	Li ₂ O	CuO 0.07	SrO	BaO 0.69
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



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Lab 2-Alkali Metals-Oxidation



062622-1



062622-7



062622-8

1-3 Second Dip



062622-9

2-3 Second Dips



062622-10



062622-11



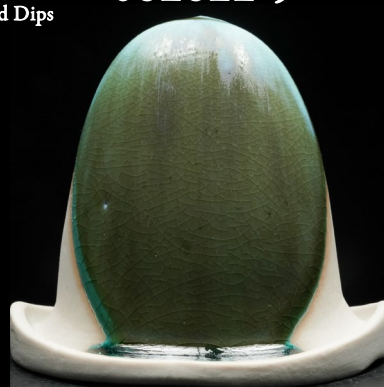
Original (NS)



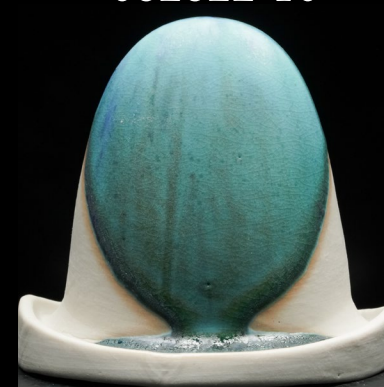
w/Mahavir



w/Custer



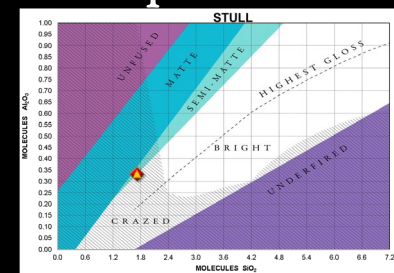
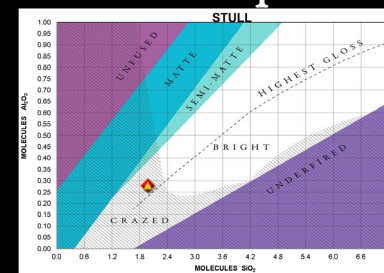
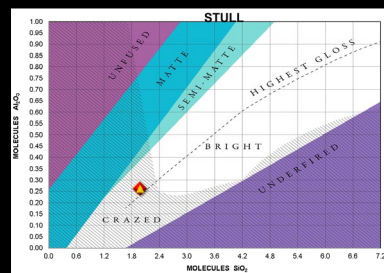
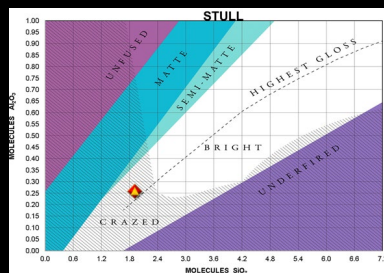
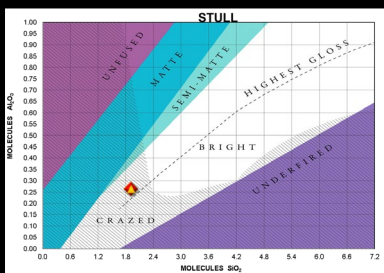
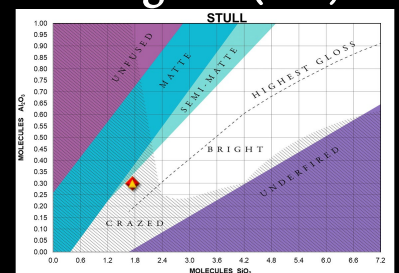
w/G200EU



w/Minspar



w/Spodumene



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Lab 2-Alkali Metals-Oxidation



062922-1



062922-13

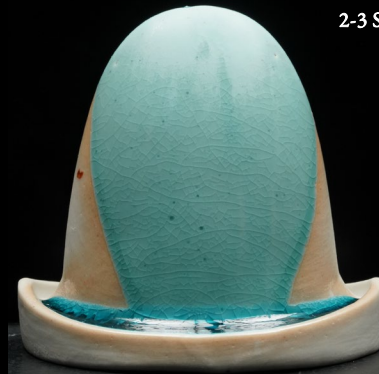


062922-15

1-3 Second Dip



Original (NS)

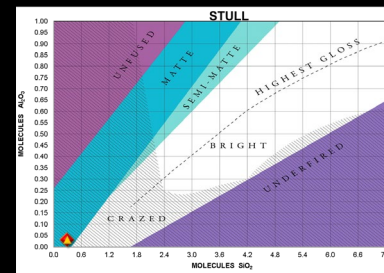
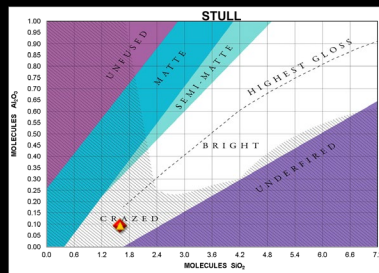
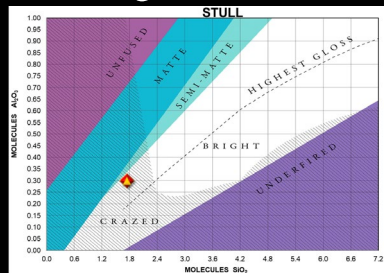


w/Frit 3110



w/Lithium Carbonate

2-3 Second Dips



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Lab 2-Alkali Metals-Reduction



062622-1



062622-7



062622-8



062622-9



062622-10



062622-11

1-3 Second Dip

2-3 Second Dips



Original (NS)



w/Mahavir



w/Custer



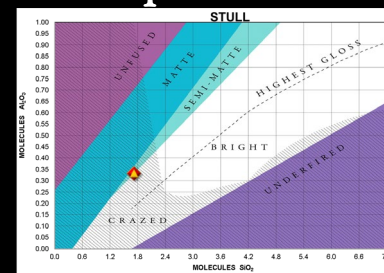
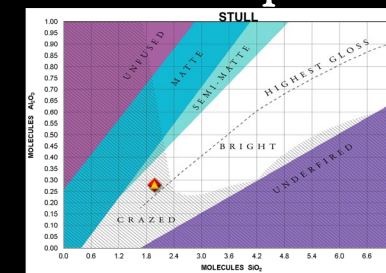
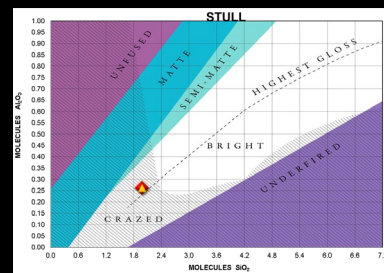
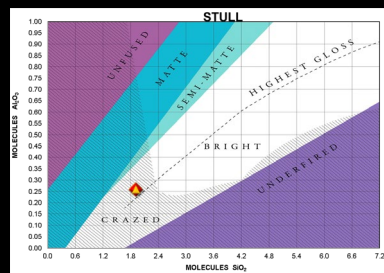
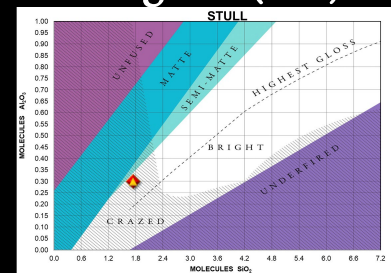
w/G200EU



w/Minspar



w/Spodumene



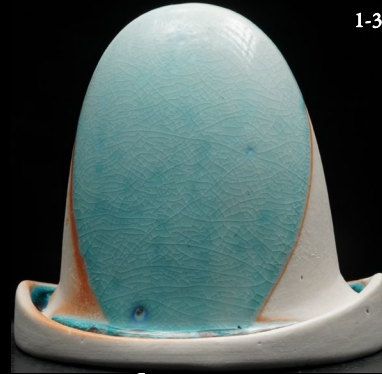
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Lab 2-Alkali Metals-Reduction



062922-1



062922-13

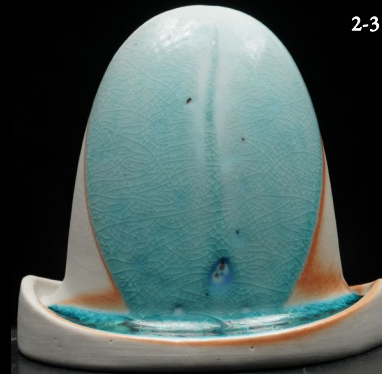


062922-15

1-3 Second Dip



Original (NS)

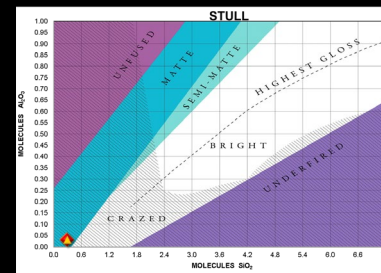
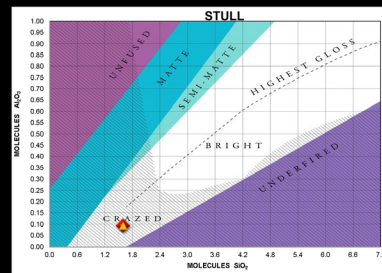
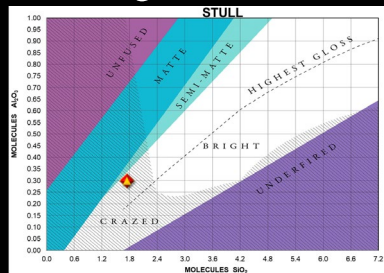


w/Frit 3110



w/Lithium Carbonate

2-3 Second Dips



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Lab 2-Alkaline Earth-Oxidation



062922-1



062922-16



062922-17

1-3 Second Dip



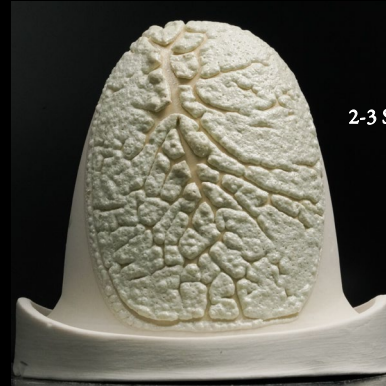
062922-18



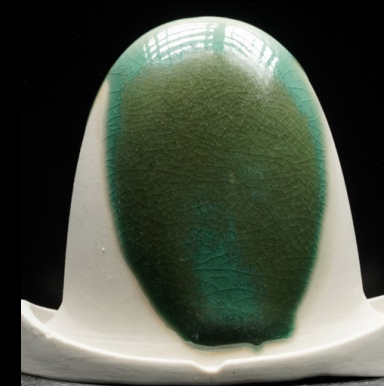
062922-19



062922-20



2-3 Second Dips



Original (Barium)

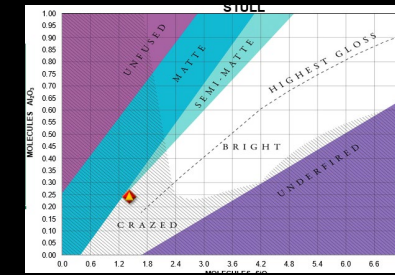
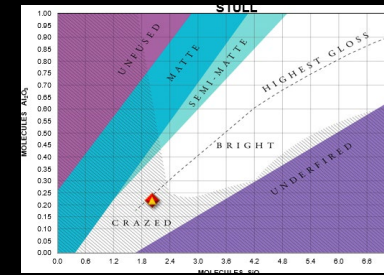
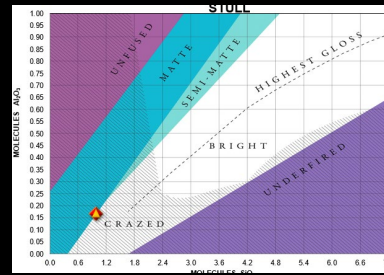
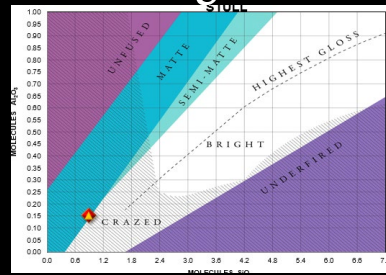
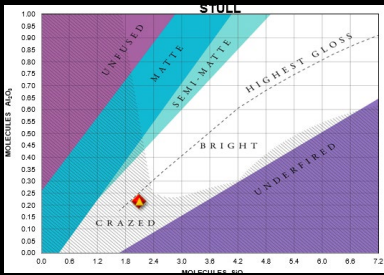
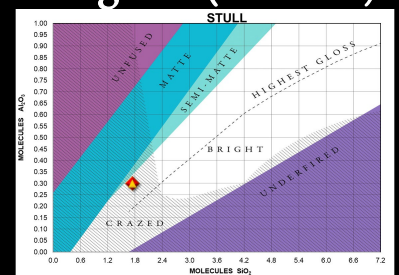
w/Talc

w/Mag Carb

w/Dolomite

w/Wollastonite

w/Strontium Carb



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Lab 2-Alkaline Earth-Oxidation

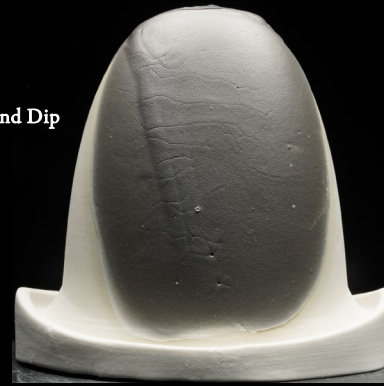


062622-1



062622-21

1-3 Second Dip



062622-22



062622-23

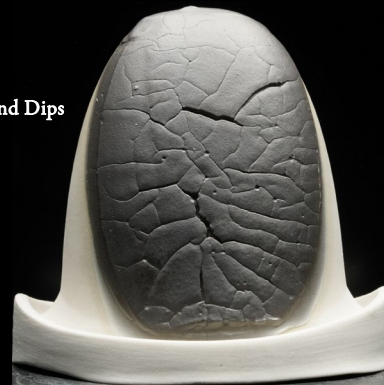


Original (Ba)



w/Whiting

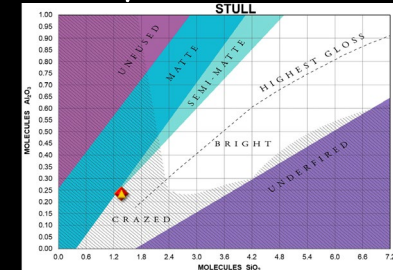
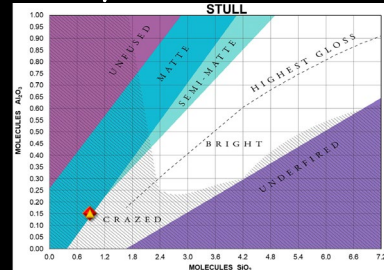
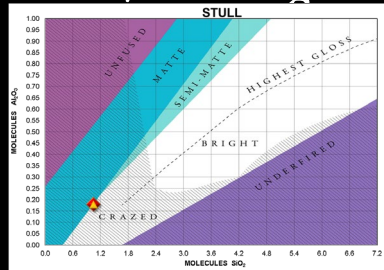
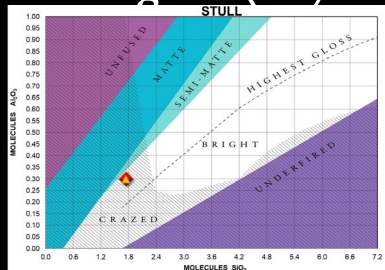
2-3 Second Dips



w/Zinc Oxide



w/Bone Ash



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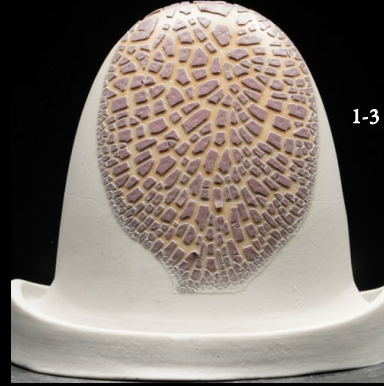
Lab 2-Alkaline Earth-Reduction



062922-1



062922-16



062922-17

1-3 Second Dip



062922-18



062922-19



062922-20



Original (Barium)



w/Talc

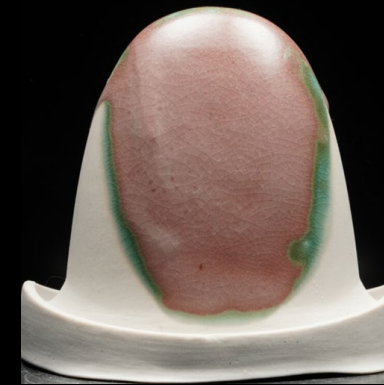


w/Mag Carb

2-3 Second Dips



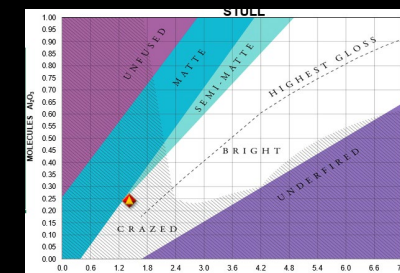
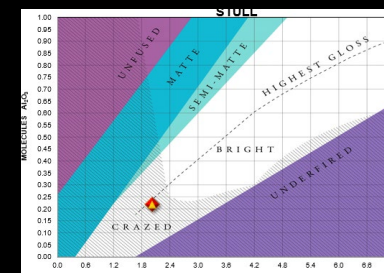
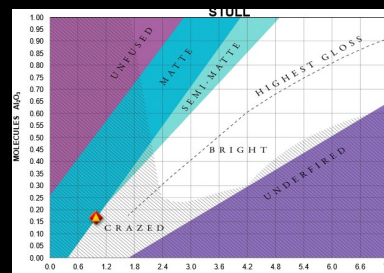
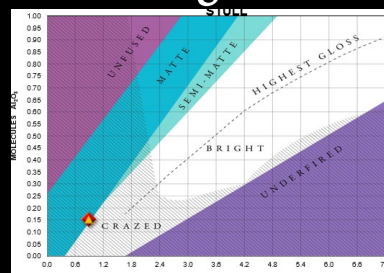
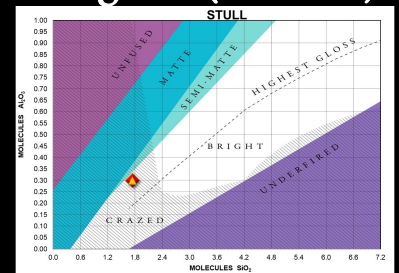
w/Dolomite



w/Wollastonite



w/Strontium Carb



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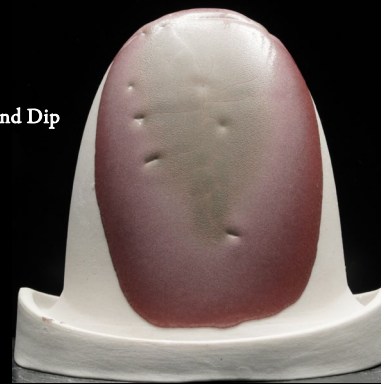
Lab 2-Alkaline Earth-Reduction



062622-1



062622-21



062622-22



062622-23

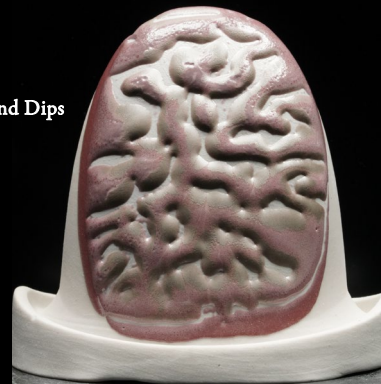
1-3 Second Dip



Original (Ba)



w/Whiting

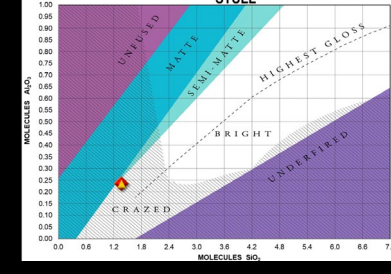
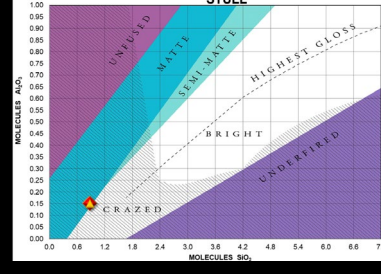
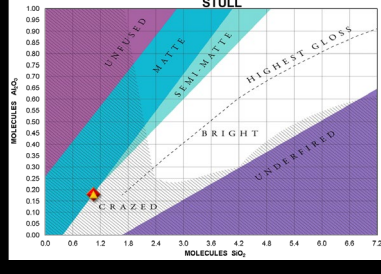
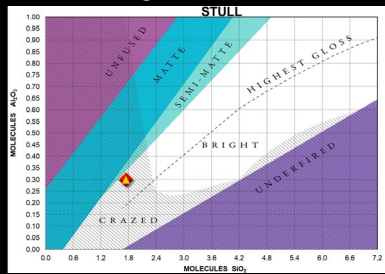


w/Zinc Oxide



w/Bone Ash

2-3 Second Dips



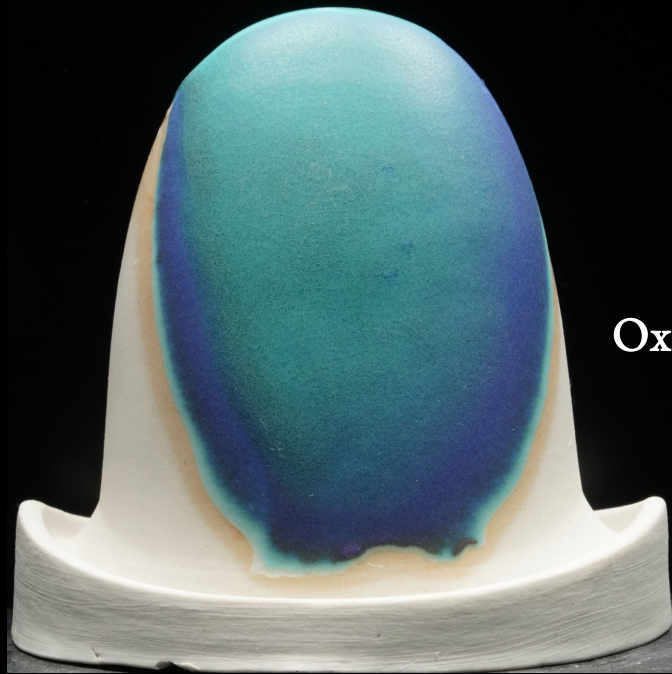
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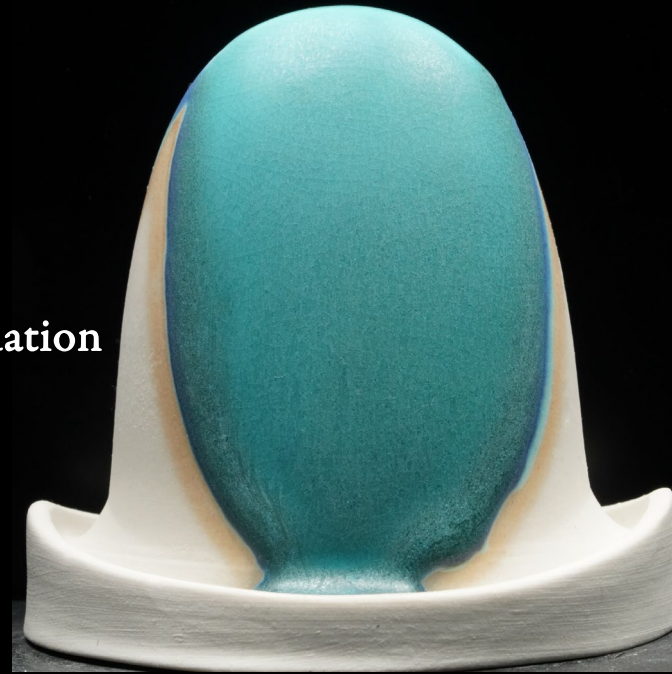
Peacock

Original
062922-1

Neph Sy	36.62
Barium Carb	46.57
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



1-3 Second Dip



2-3 Second Dips

Oxidation

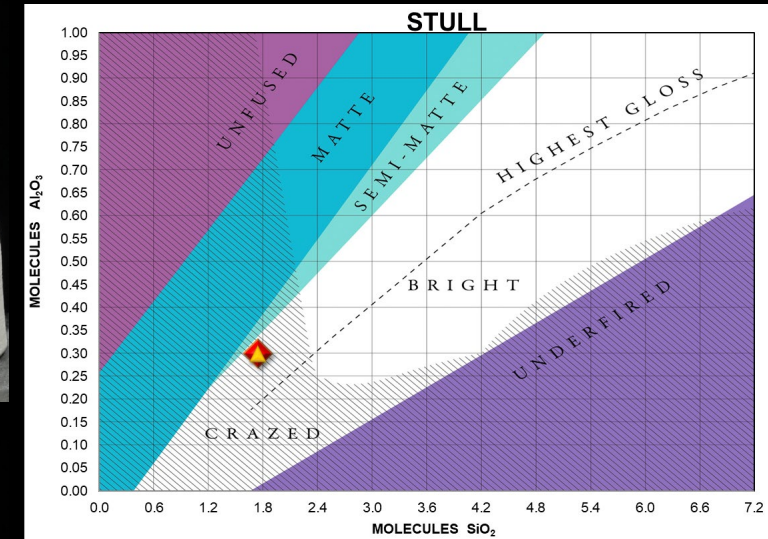


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.80 :1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 1.88	Collective "Al ₂ O ₃ " 0.32	Na ₂ O 0.19	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 0.74
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 5.80 :1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 1.74	Collective "Al ₂ O ₃ " 0.30	Na ₂ O 0.18	K ₂ O 0.05	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.30	Li ₂ O	CuO 0.07	SrO	BaO 0.69
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

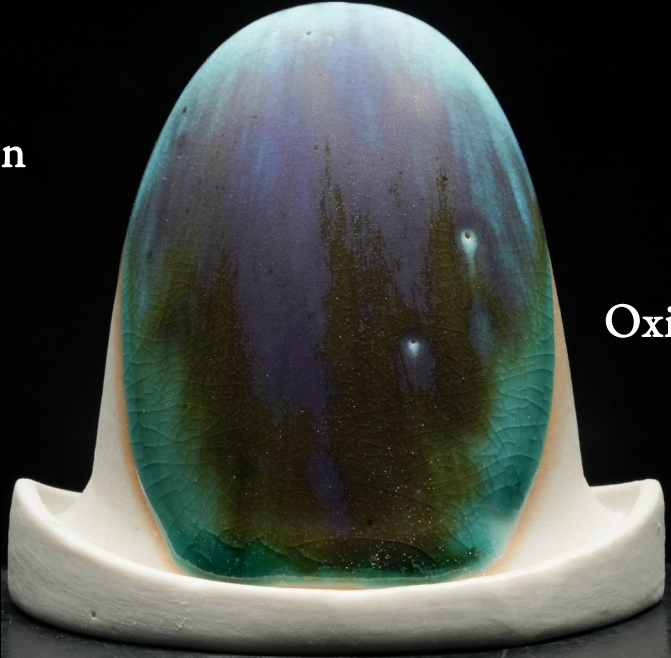


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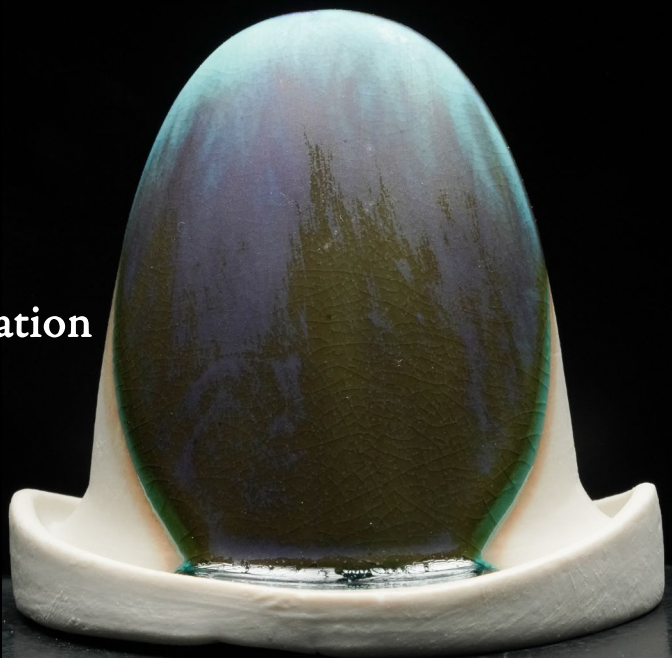
Peacock

Weight Substitution
Mahavir Feldspar
062922-7

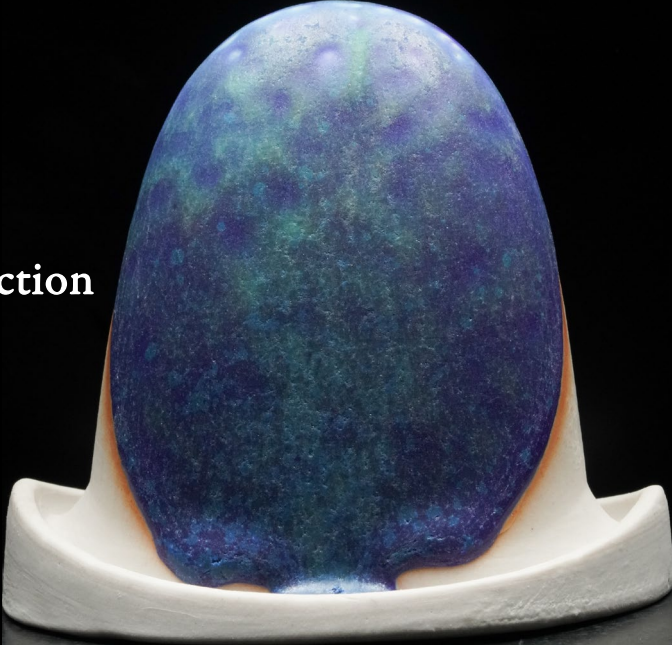
Mahavir	36.62
Barium Carb	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



Oxidation

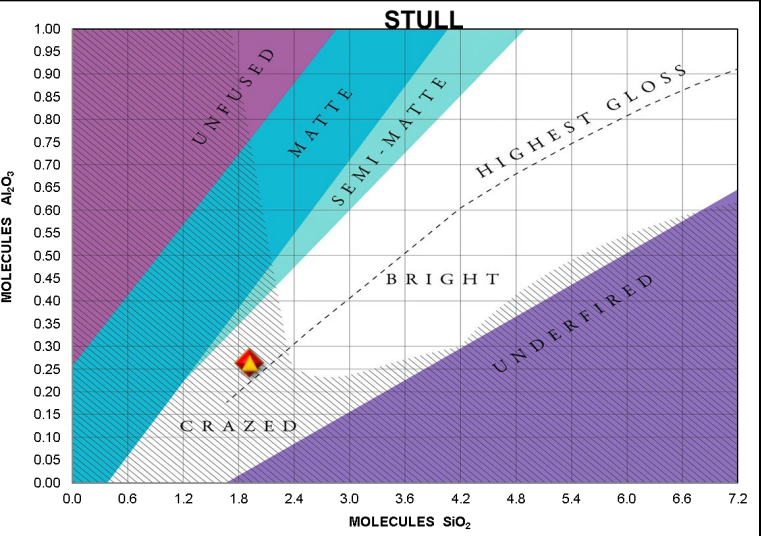


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.27 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.08	Collective "Al ₂ O ₃ " 0.29	Na ₂ O 0.06	K ₂ O 0.15	MgO 0.01	CaO 0.00
B ₂ O ₃	Al ₂ O ₃ 0.28	Li ₂ O	CuO	SrO	BaO 0.78
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 7.27 :1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 1.92	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.05	K ₂ O 0.14	MgO 0.01	CaO 0.00
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO 0.08	SrO	BaO 0.72
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

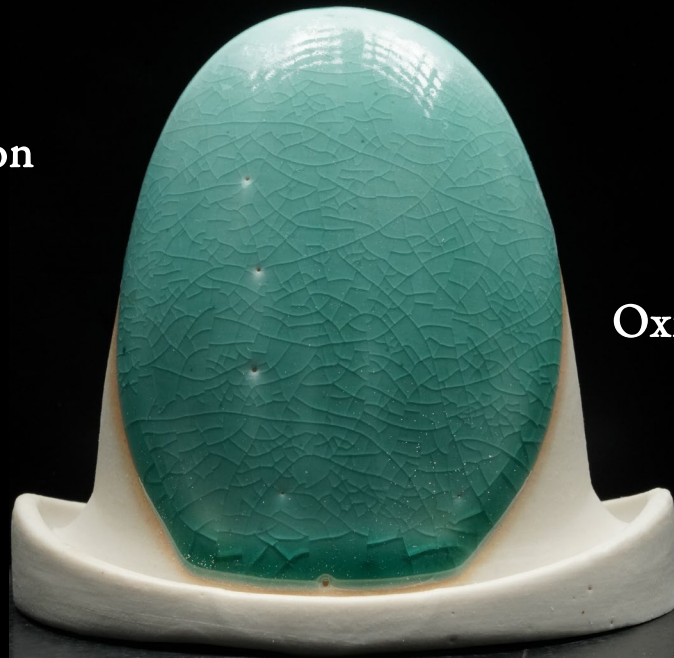


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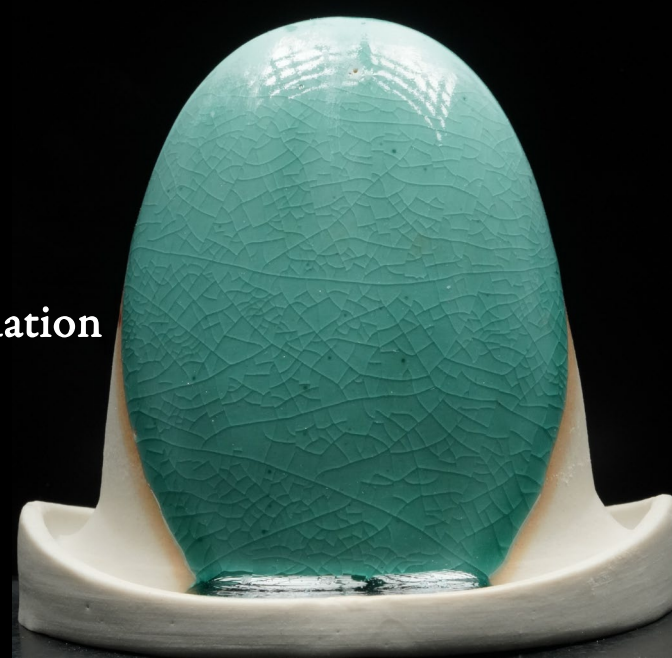
Peacock

Weight Substitution
Custer Feldspar
062922-8

Custer	36.62
Barium Carb	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



1-3 Second Dip



2-3 Second Dips

Oxidation

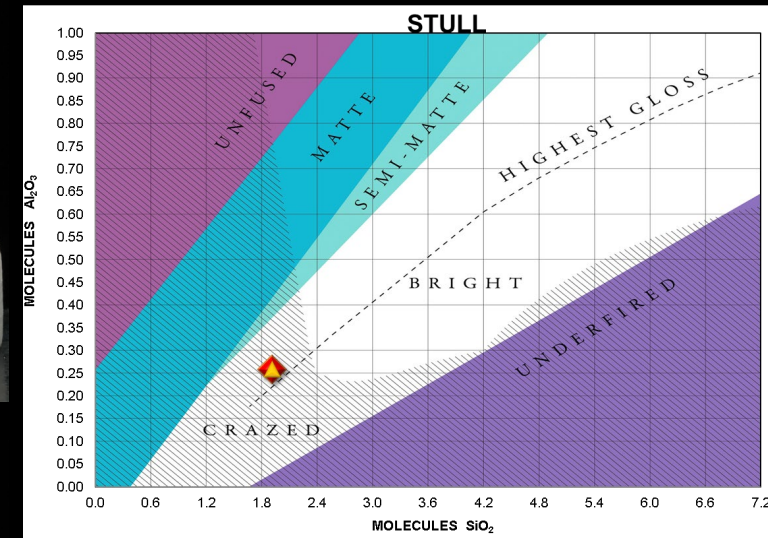


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.36 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.07	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.09	K ₂ O 0.13	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.28	Li ₂ O	CuO	SrO	BaO 0.77
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 7.36 :1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 1.92	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.08	K ₂ O 0.12	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO 0.08	SrO	BaO 0.71
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



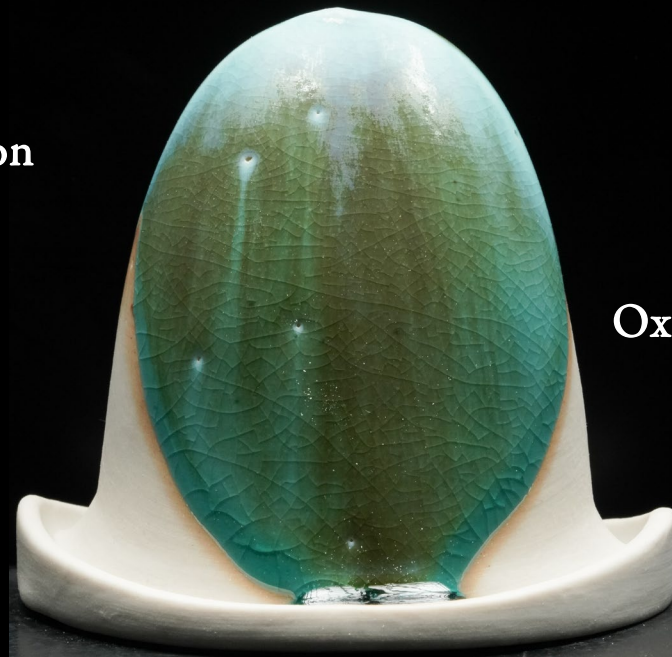
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Workshop

Peacock

Weight Substitution
G200EU Feldspar

062922-9

G200 EU	36.91
Barium Carb	46.93
EPK	6.68
Flint	10.27
Copper Carbonate	3.12
Water	70



1-3 Second Dip



2-3 Second Dips

Oxidation

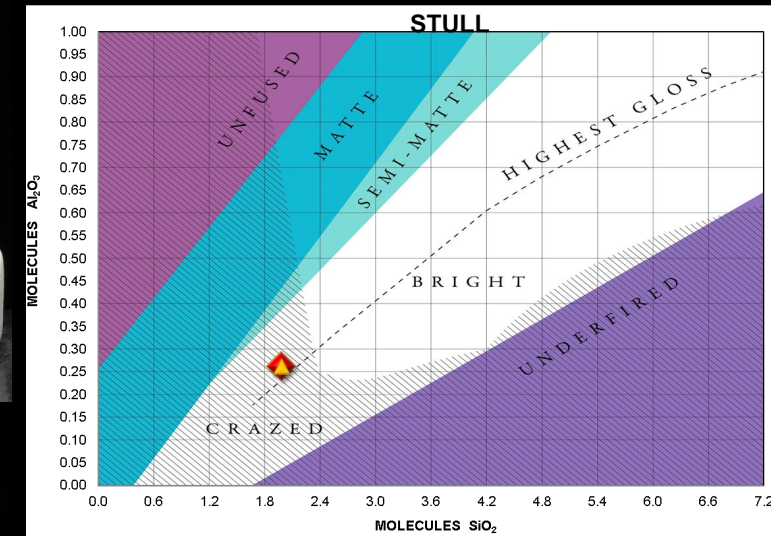


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.53 :1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 2.15	Collective "Al ₂ O ₃ " 0.29	Na ₂ O 0.04	K ₂ O 0.14	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.28	Li ₂ O	CuO	SrO	BaO 0.79
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 7.53 :1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 1.98	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.04	K ₂ O 0.13	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO 0.08	SrO	BaO 0.73
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



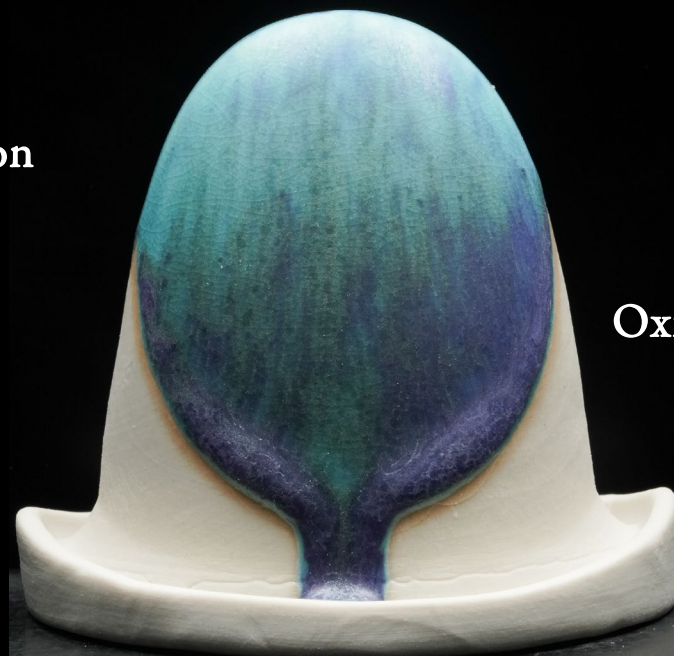
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Peacock

Weight Substitution
Minspar Feldspar
062922-10

Minspar	36.62
Barium Carb	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



1-3 Second Dip



2-3 Second Dips

Oxidation

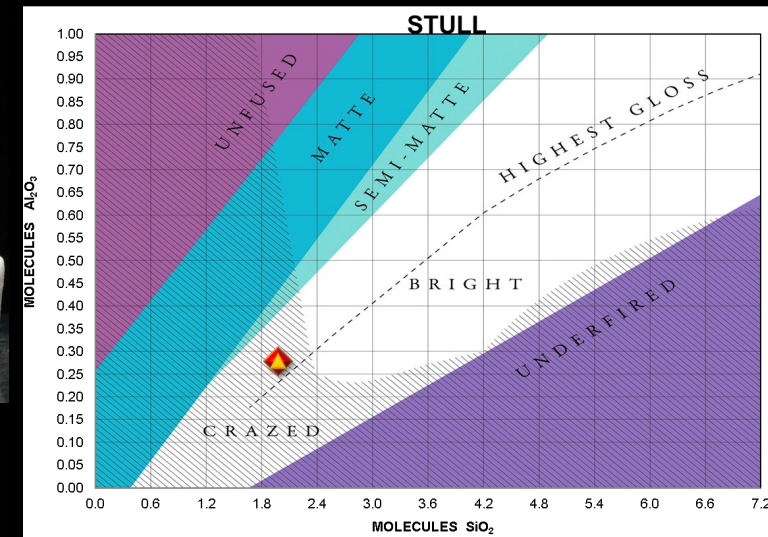


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.08 :1		Alkali Metals 0.18		Alkaline Earths 0.82	
SiO ₂ 2.14	Collective "Al ₂ O ₃ " 0.30	Na ₂ O 0.12	K ₂ O 0.05	MgO 0.00	CaO 0.03
B ₂ O ₃	Al ₂ O ₃ 0.30	Li ₂ O	CuO	SrO 0.00	BaO 0.79
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.00	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 7.08 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 1.98	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.11	K ₂ O 0.05	MgO 0.00	CaO 0.03
B ₂ O ₃	Al ₂ O ₃ 0.28	Li ₂ O	CuO	SrO 0.00	BaO 0.73
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.00	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



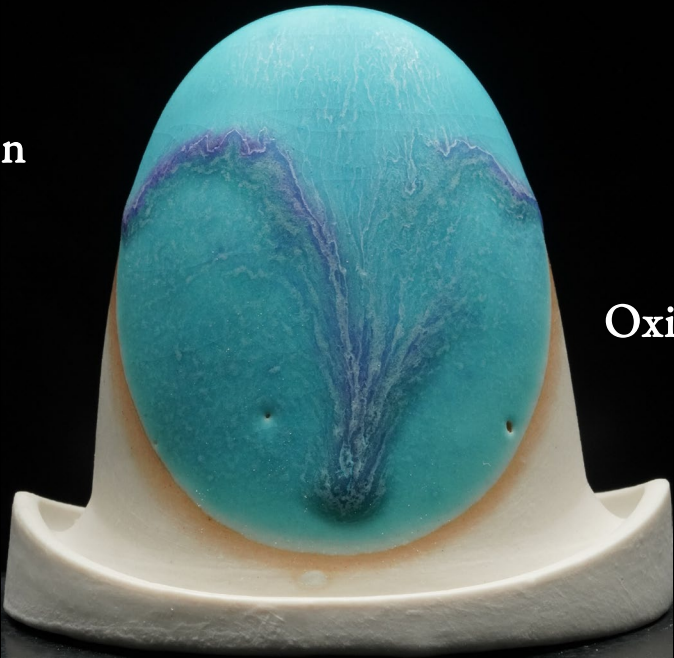
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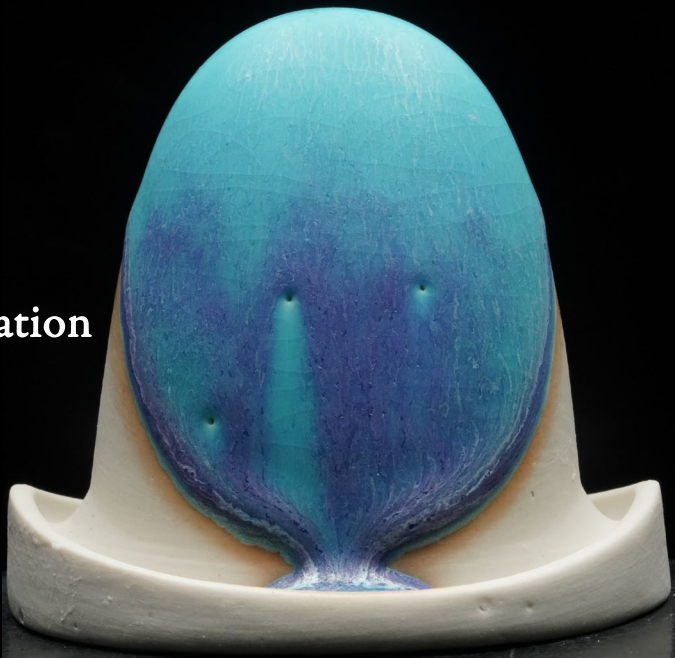
Weight Substitution
Spodumene

062922-11

Spodumene	36.62
Barium Carb	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



1-3 Second Dip



2-3 Second Dips



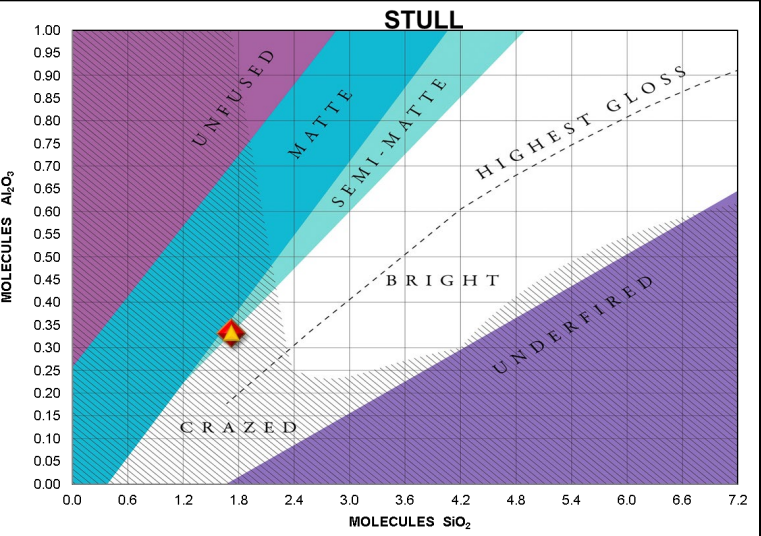
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.16 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 1.85	Collective "Al ₂ O ₃ " 0.36	Na ₂ O 0.00	K ₂ O 0.00	MgO 0.00	CaO 0.00
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O 0.28	CuO	SrO	BaO 0.71
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 5.16 :1		Alkali Metals 0.34		Alkaline Earths 0.66	
SiO ₂ 1.72	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.00	K ₂ O 0.00	MgO 0.00	CaO 0.00
B ₂ O ₃	Al ₂ O ₃ 0.33	Li ₂ O 0.26	CuO 0.07	SrO	BaO 0.66
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



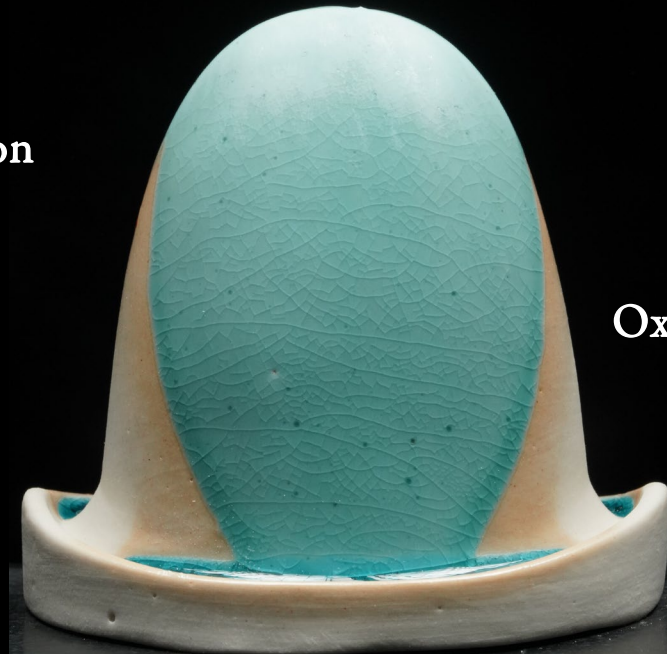
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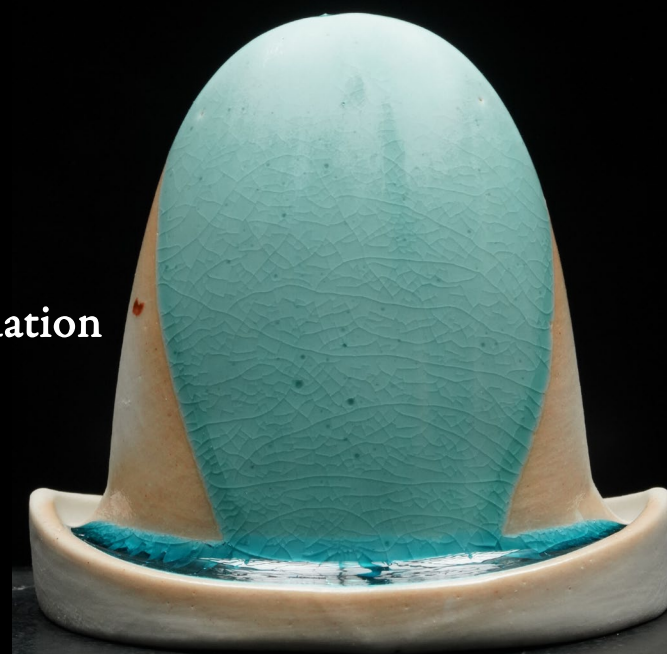
Weight Substitution
Frit 3110

062922-13

3110	36.62
Barium Carb	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



1-3 Second Dip



2-3 Second Dips

Oxidation

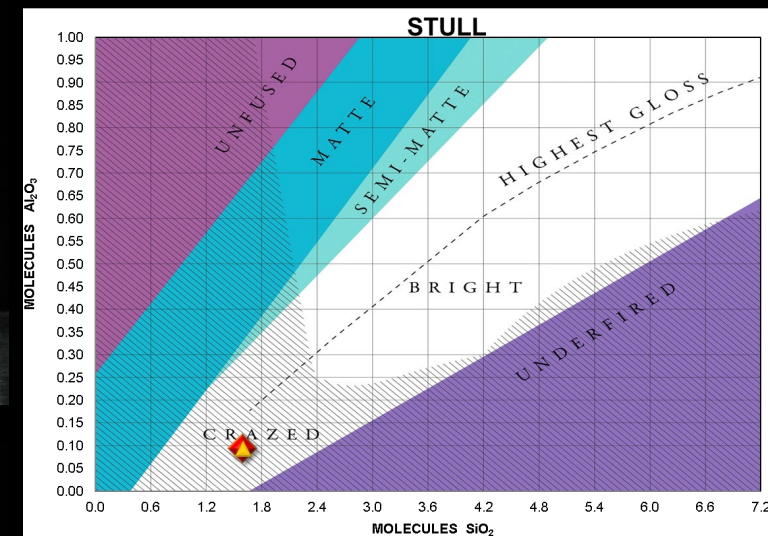


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 16.99 :1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 1.70	Collective "Al ₂ O ₃ " 0.10	Na ₂ O 0.24	K ₂ O 0.02	MgO 0.00	CaO 0.11
B ₂ O ₃ 0.04	Al ₂ O ₃ 0.10	Li ₂ O	CuO	SrO	BaO 0.62
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 16.99 :1		Alkali Metals 0.31		Alkaline Earths 0.69	
SiO ₂ 1.60	Collective "Al ₂ O ₃ " 0.09	Na ₂ O 0.23	K ₂ O 0.02	MgO 0.00	CaO 0.10
B ₂ O ₃ 0.03	Al ₂ O ₃ 0.09	Li ₂ O	CuO 0.06	SrO	BaO 0.58
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



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Peacock

Weight Substitution
Lithium Carbonate

062922-15

Lithium Carb	36.62
Barium Carb	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



1-3 Second Dip



2-3 Second Dips

Oxidation

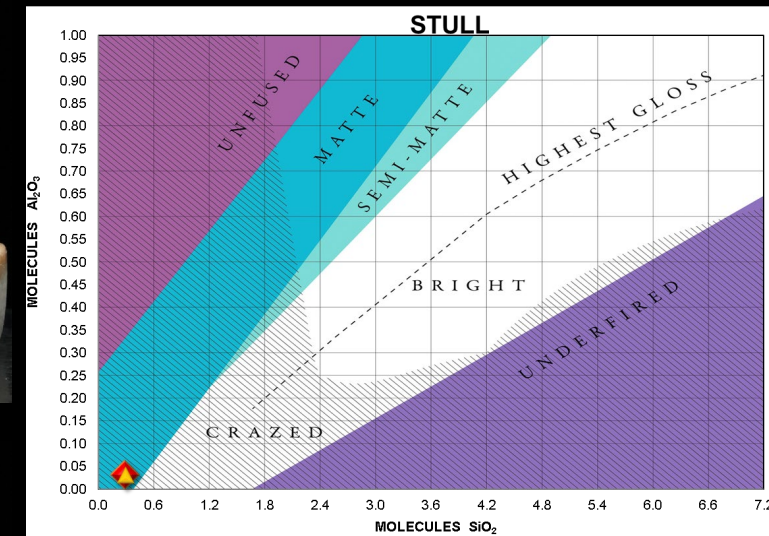


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.28 :1		Alkali Metals 0.68		Alkaline Earths 0.32	
SiO ₂ 0.30	Collective "Al ₂ O ₃ " 0.03	Na ₂ O	K ₂ O	MgO	CaO
B ₂ O ₃	Al ₂ O ₃ 0.03	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 9.28 :1		Alkali Metals 0.69		Alkaline Earths 0.31	
SiO ₂ 0.29	Collective "Al ₂ O ₃ " 0.03	Na ₂ O	K ₂ O	MgO	CaO
B ₂ O ₃	Al ₂ O ₃ 0.03	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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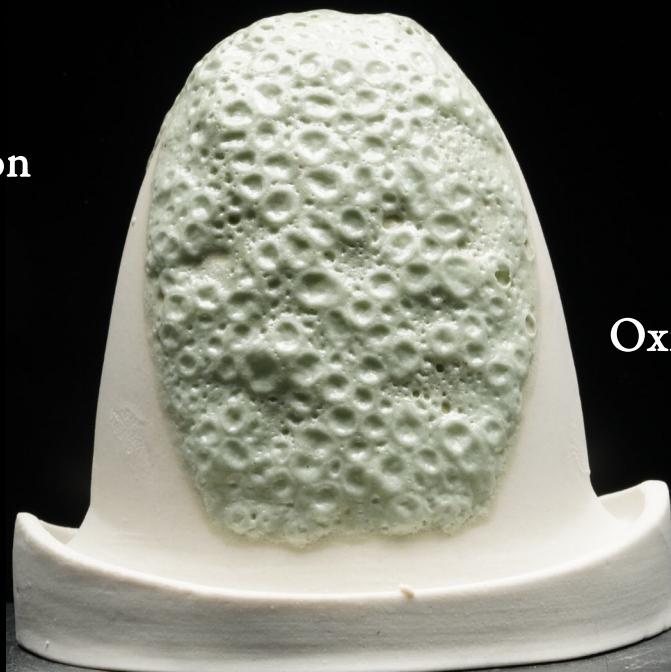
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Peacock

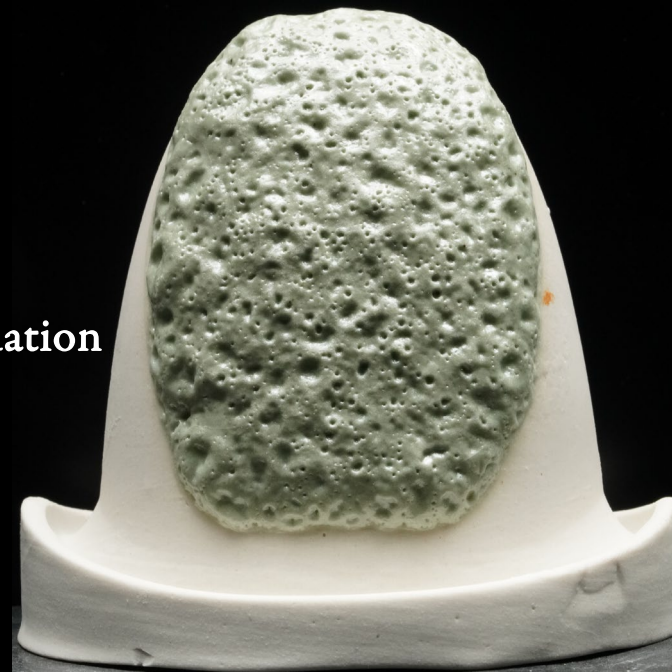
Weight Substitution
Talc

062922-16

Neph Sy	36.62
Talc	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



Oxidation



1-3 Second Dip

2-3 Second Dips

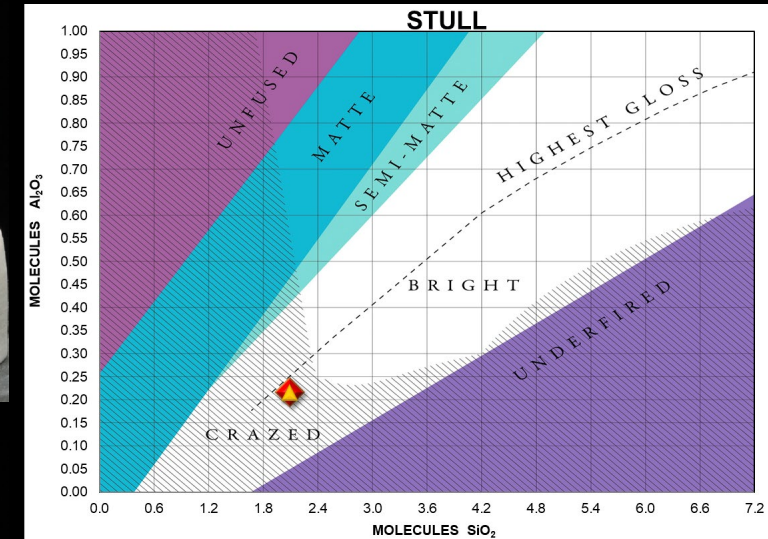


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.67 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO ₂ 2.21	Collective "Al ₂ O ₃ " 0.23	Na ₂ O 0.13	K ₂ O 0.04	MgO 0.74	CaO 0.07
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	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 9.67 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.09	Collective "Al ₂ O ₃ " 0.22	Na ₂ O 0.13	K ₂ O 0.04	MgO 0.70	CaO 0.06
B ₂ O ₃	Al ₂ O ₃ 0.21	Li ₂ O	CuO 0.05	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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Peacock

Weight Substitution
Magnesium Carbonate

062922-17

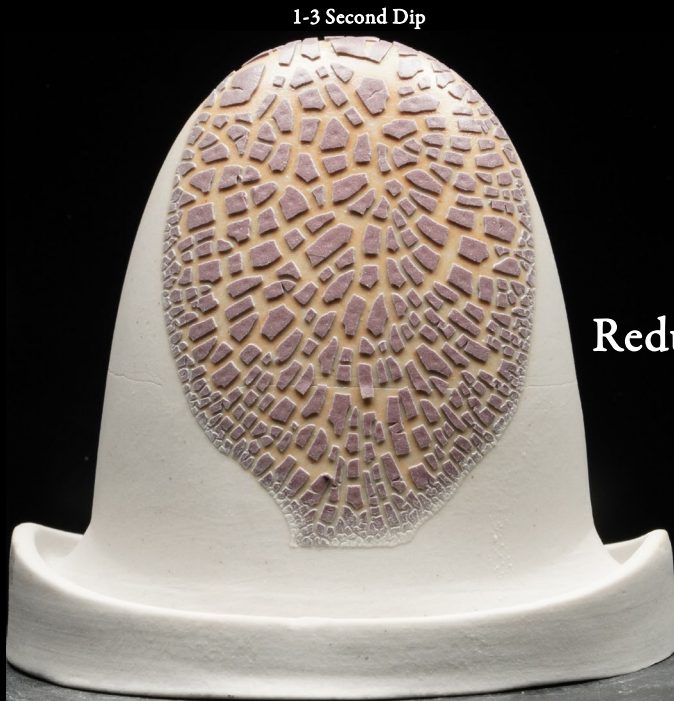
Neph Sy	36.62
Mag Carbonate	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	200



Oxidation



Reduction



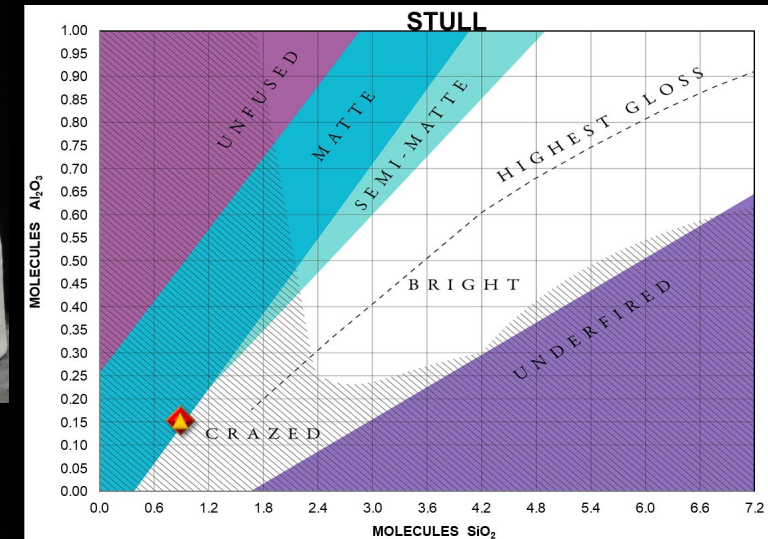
1-3 Second Dip



2-3 Second Dips

UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.77 :1		Alkali Metals 0.12		Alkaline Earths 0.88	
SiO ₂ 0.92	Collective "Al ₂ O ₃ " 0.16	Na ₂ O 0.09	K ₂ O 0.03	MgO 0.87	CaO 0.00
B ₂ O ₃	Al ₂ O ₃ 0.16	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 5.77 :1		Alkali Metals 0.15		Alkaline Earths 0.85	
SiO ₂ 0.89	Collective "Al ₂ O ₃ " 0.15	Na ₂ O 0.09	K ₂ O 0.03	MgO 0.84	CaO 0.00
B ₂ O ₃	Al ₂ O ₃ 0.15	Li ₂ O	CuO 0.04	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



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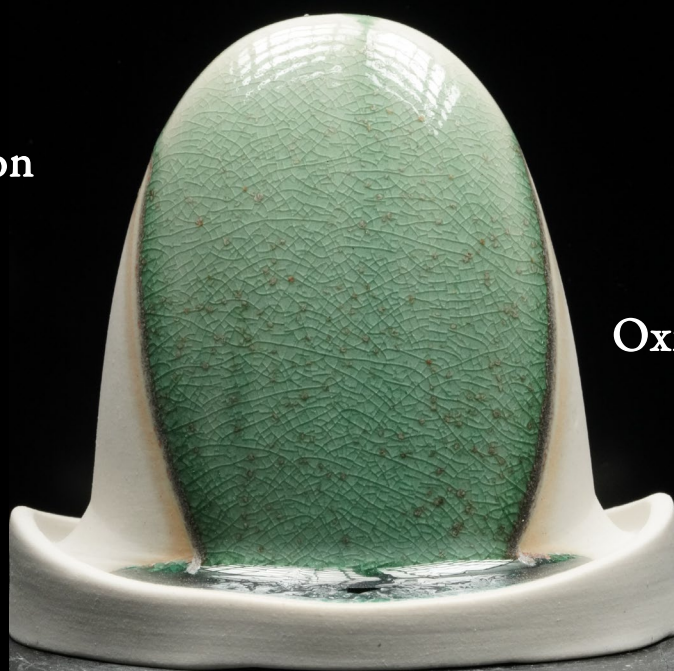
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Peacock

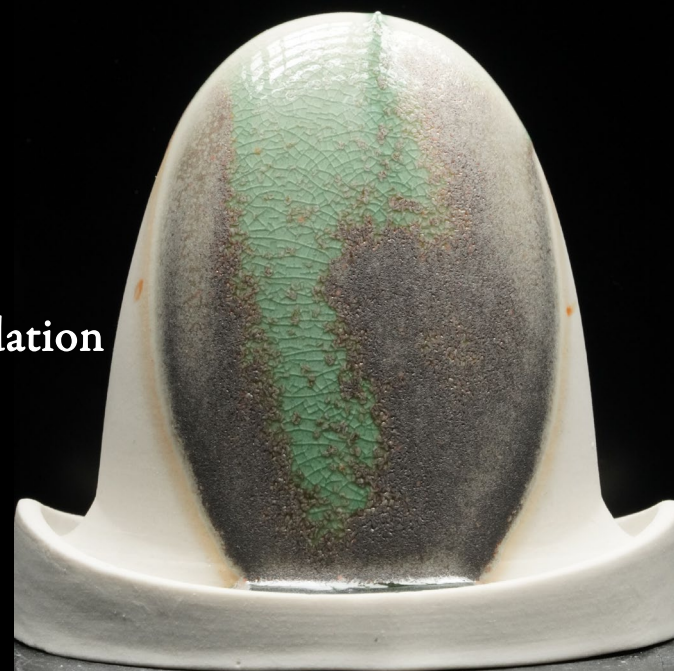
Weight Substitution
Dolomite

062922-18

Neph Sy	36.62
Dolomite	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



1-3 Second Dip



2-3 Second Dips

Oxidation

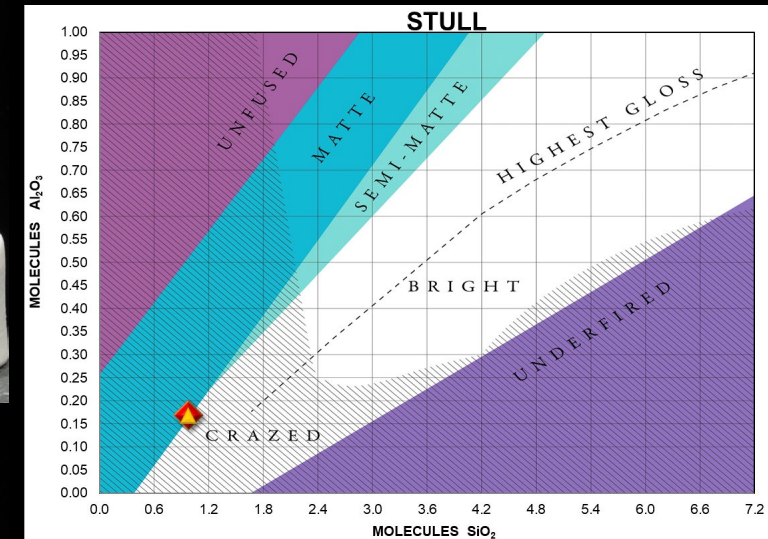


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.80 :1		Alkali Metals 0.13		Alkaline Earths 0.87	
SiO ₂ 1.02	Collective "Al ₂ O ₃ " 0.18	Na ₂ O 0.10	K ₂ O 0.03	MgO 0.43	CaO 0.43
B ₂ O ₃	Al ₂ O ₃ 0.18	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 5.80 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO ₂ 0.98	Collective "Al ₂ O ₃ " 0.17	Na ₂ O 0.10	K ₂ O 0.03	MgO 0.41	CaO 0.42
B ₂ O ₃	Al ₂ O ₃ 0.17	Li ₂ O	CuO 0.04	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



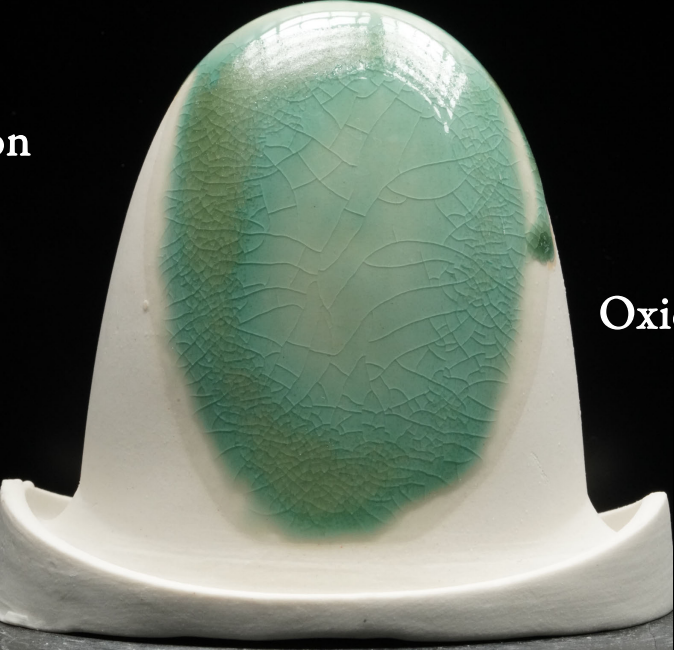
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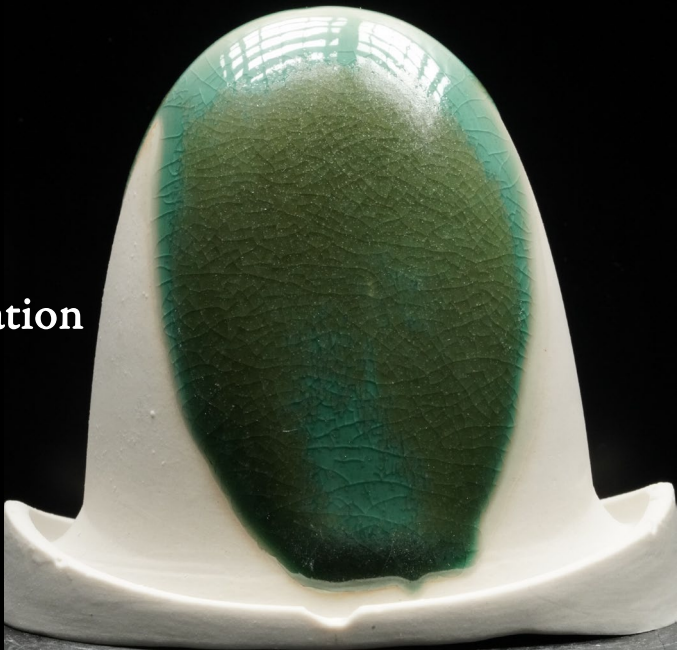
Weight Substitution
Wollastonite

062922-19

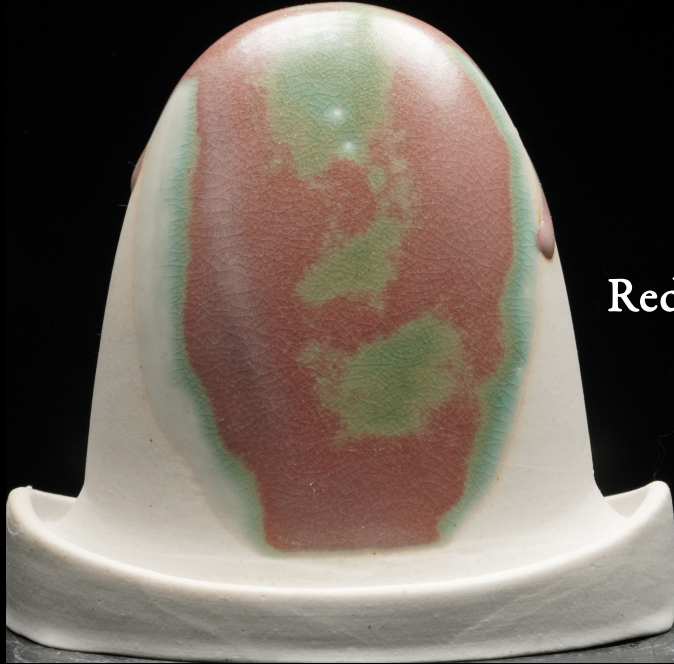
Neph Sy	36.62
Wollastonite	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



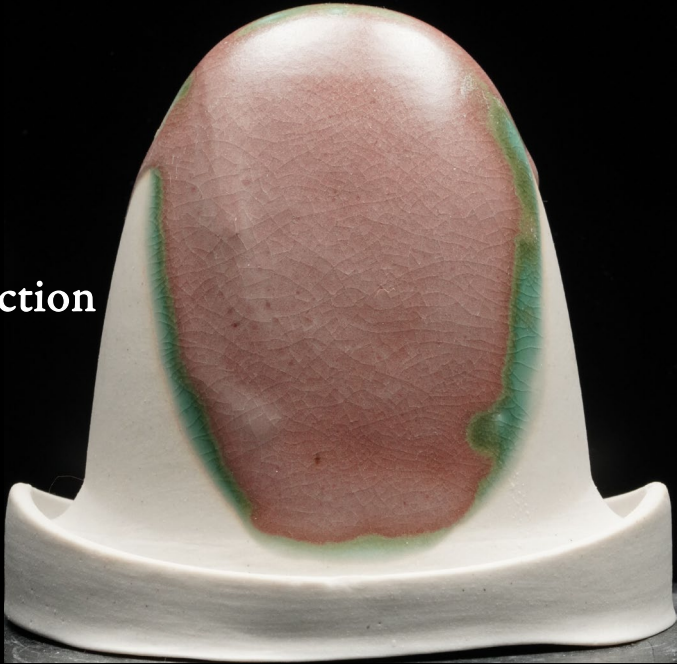
1-3 Second Dip



2-3 Second Dips

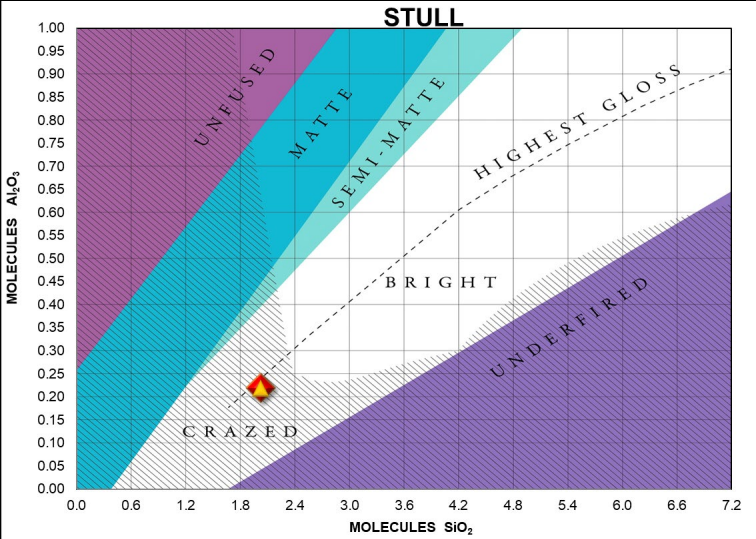


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.25 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO ₂ 2.14	Collective "Al ₂ O ₃ " 0.23	Na ₂ O 0.13	K ₂ O 0.04	MgO 0.03	CaO 0.78
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	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 9.25 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.03	Collective "Al ₂ O ₃ " 0.22	Na ₂ O 0.13	K ₂ O 0.04	MgO 0.03	CaO 0.74
B ₂ O ₃	Al ₂ O ₃ 0.22	Li ₂ O	CuO 0.05	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



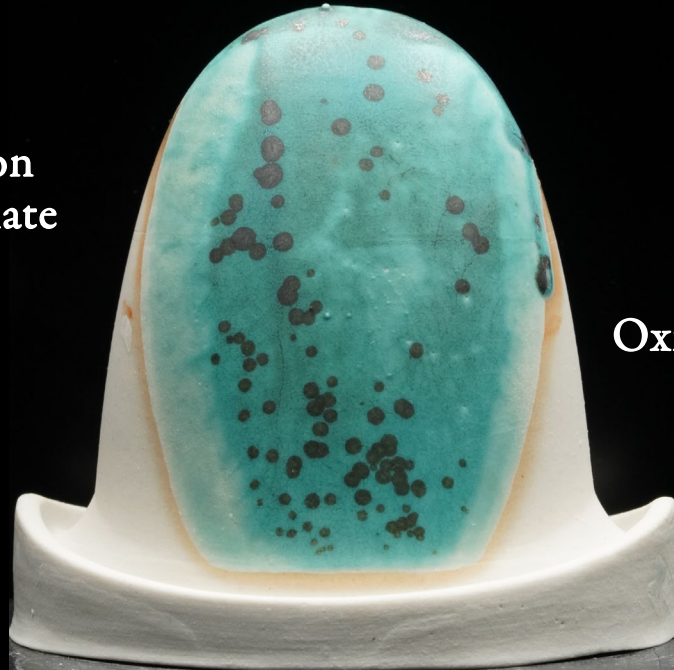
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Weight Substitution
Strontium Carbonate

062922-20

Neph Sy	36.62
Strontium Carb	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



1-3 Second Dip



2-3 Second Dips

Oxidation

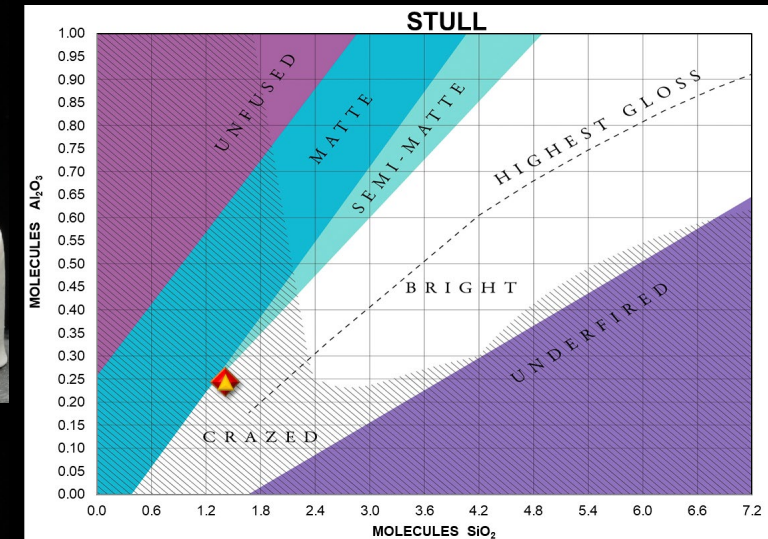


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.80 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.51	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.15	K ₂ O 0.04	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO	SrO 0.79	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 5.80 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 1.42	Collective "Al ₂ O ₃ " 0.24	Na ₂ O 0.14	K ₂ O 0.04	MgO 0.00	CaO 0.01
B ₂ O ₃	Al ₂ O ₃ 0.24	Li ₂ O	CuO 0.06	SrO 0.75	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

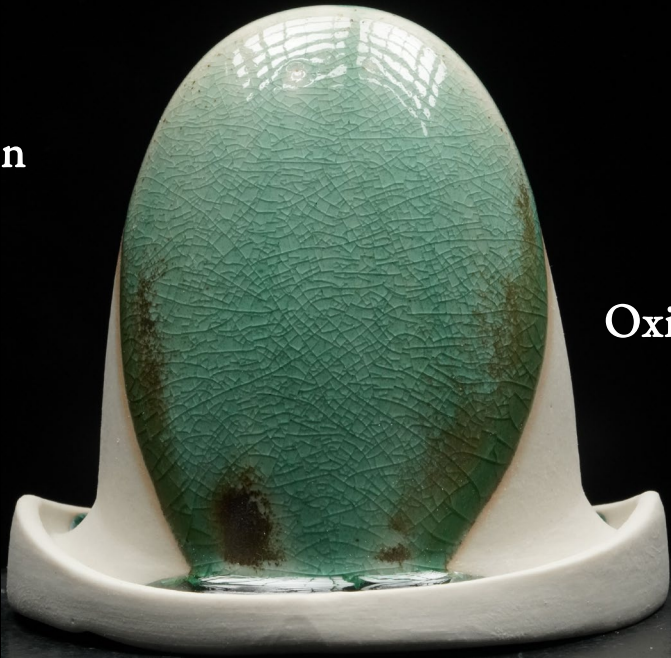


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Materials
Workshop

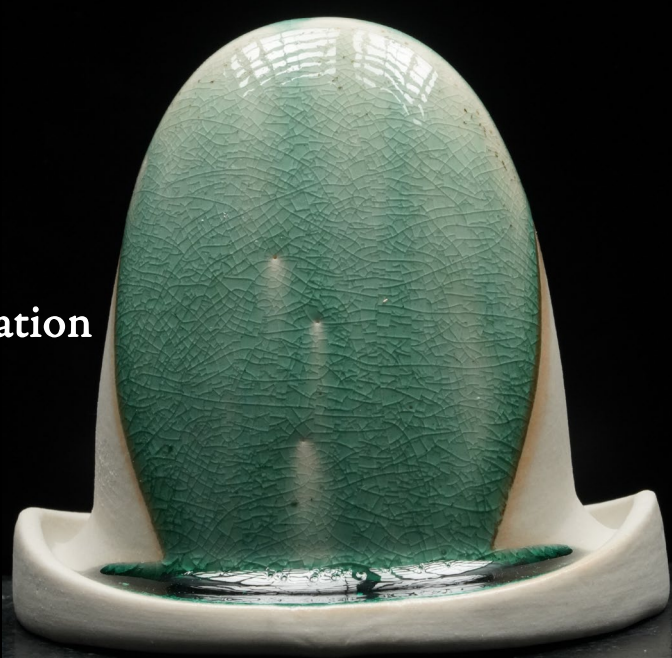
Peacock

Weight Substitution
Whiting
062922-21

Neph Sy	36.62
Whiting	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



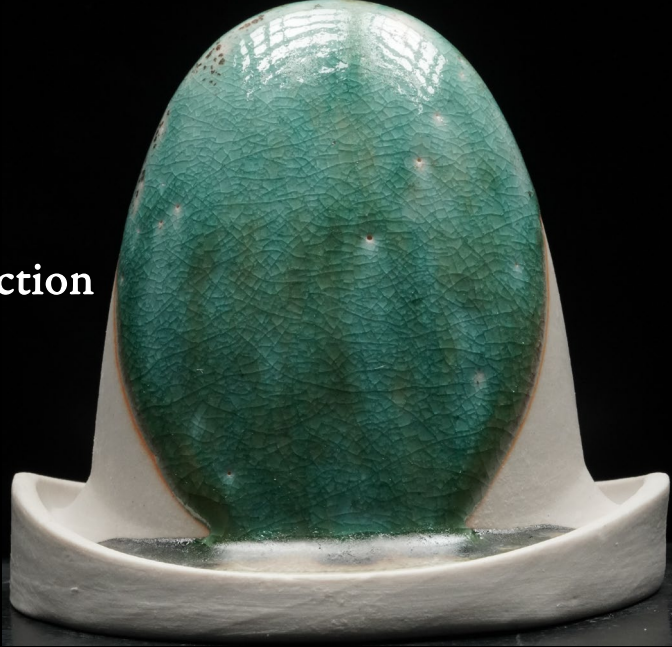
1-3 Second Dip



2-3 Second Dips

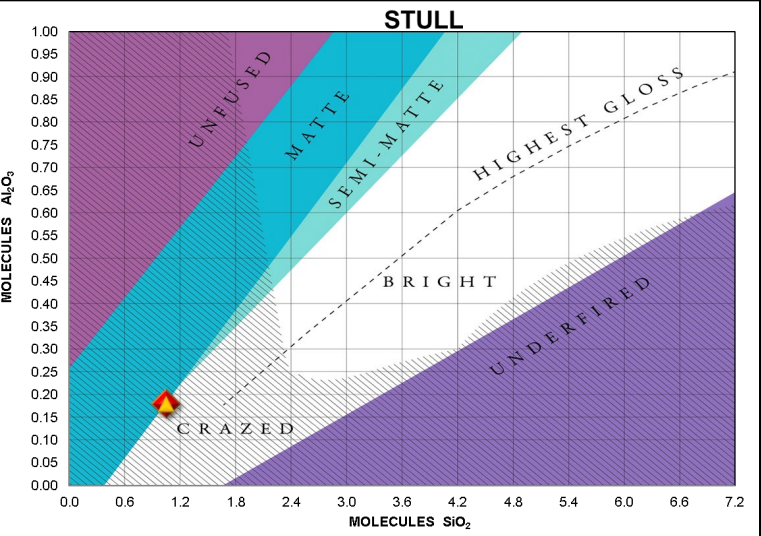


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.80 :1		Alkali Metals 0.14		Alkaline Earths 0.86	
SiO ₂ 1.09	Collective "Al ₂ O ₃ " 0.19	Na ₂ O 0.11	K ₂ O 0.03	MgO 0.00	CaO 0.85
B ₂ O ₃	Al ₂ O ₃ 0.19	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 5.80 :1		Alkali Metals 0.18		Alkaline Earths 0.82	
SiO ₂ 1.05	Collective "Al ₂ O ₃ " 0.18	Na ₂ O 0.11	K ₂ O 0.03	MgO 0.00	CaO 0.82
B ₂ O ₃	Al ₂ O ₃ 0.18	Li ₂ O	CuO 0.04	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



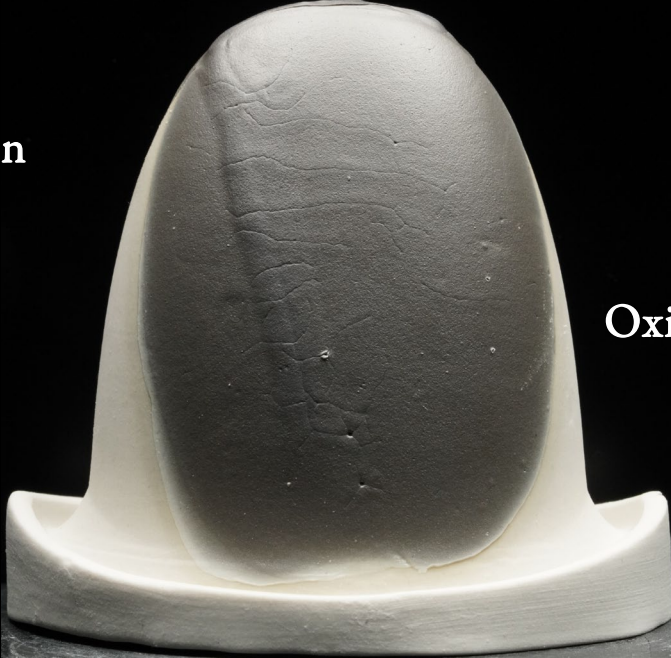
Ceramic
Materials
Workshop

Peacock

Weight Substitution
Zinc Oxide

062922-22

Neph Sy	36.62
Zinc Oxide	46.56
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



1-3 Second Dip



2-3 Second Dips

Oxidation



1-3 Second Dip

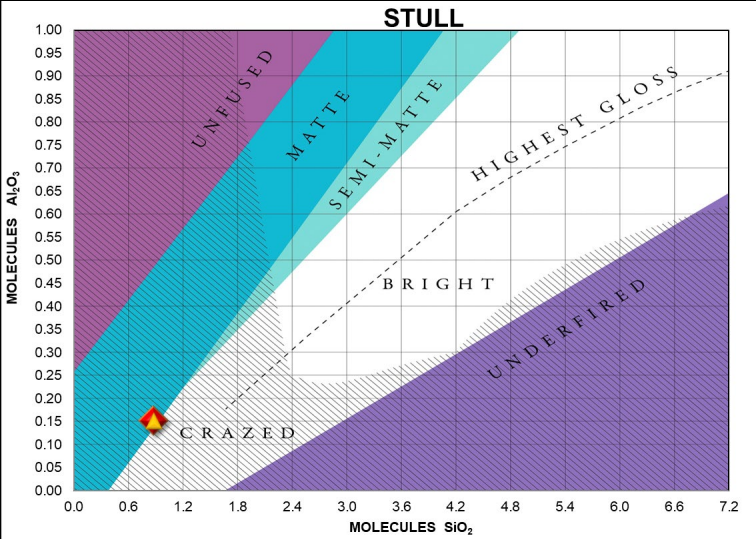


2-3 Second Dips

Reduction

UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.80 :1		Alkali Metals 0.12		Alkaline Earths 0.88	
SiO ₂ 0.92	Collective "Al ₂ O ₃ " 0.16	Na ₂ O 0.09	K ₂ O 0.03	MgO 0.00	CaO 0.00
B ₂ O ₃	Al ₂ O ₃ 0.16	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.87	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 5.80 :1		Alkali Metals 0.15		Alkaline Earths 0.85	
SiO ₂ 0.88	Collective "Al ₂ O ₃ " 0.15	Na ₂ O 0.09	K ₂ O 0.03	MgO 0.00	CaO 0.00
B ₂ O ₃	Al ₂ O ₃ 0.15	Li ₂ O	CuO 0.04	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.84	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

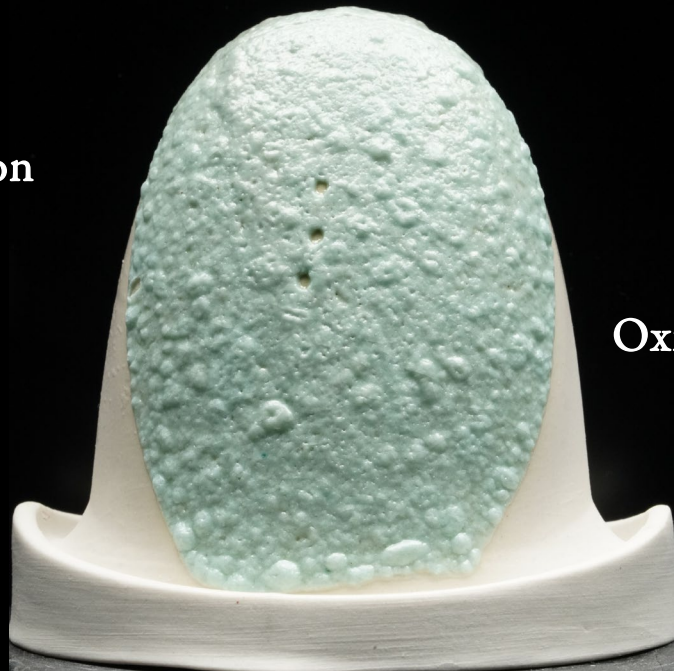


Ceramic
Materials
Workshop

Peacock

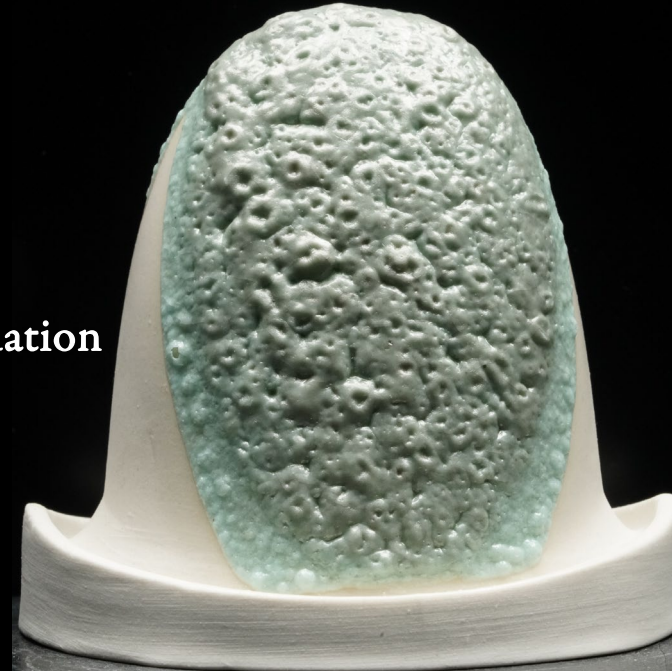
Weight Substitution
Bone Ash
062922-23

Neph Sy	36.62
Bone Ash	46.57
EPK	6.63
Flint	10.19
Copper Carbonate	3.09
Water	70



Oxidation

1-3 Second Dip



2-3 Second Dips

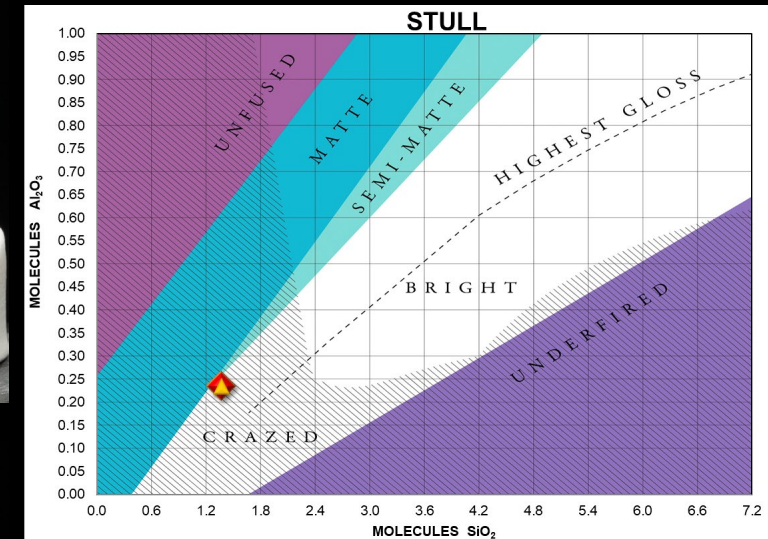


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.83 :1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 1.45	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.15	K ₂ O 0.04	MgO 0.00	CaO 0.80
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 0.44		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 5.83 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 1.37	Collective "Al ₂ O ₃ " 0.24	Na ₂ O 0.14	K ₂ O 0.04	MgO 0.00	CaO 0.76
B ₂ O ₃	Al ₂ O ₃ 0.23	Li ₂ O	CuO 0.06	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 0.42		MnO ₂	CoO



Ceramic
Materials
Workshop