

Glassy Eyed- Δ 6

Lab 4-Back to the Flux Capacity

Glassy Eyed

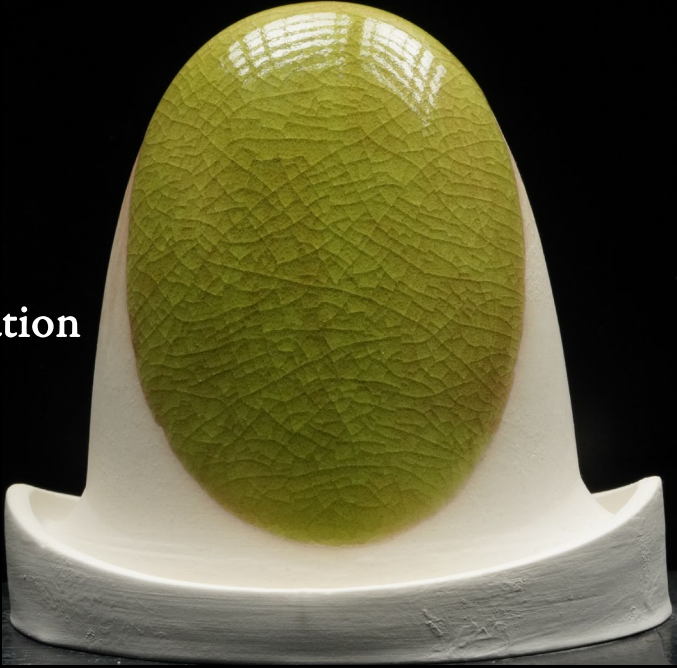
Original

070422-1

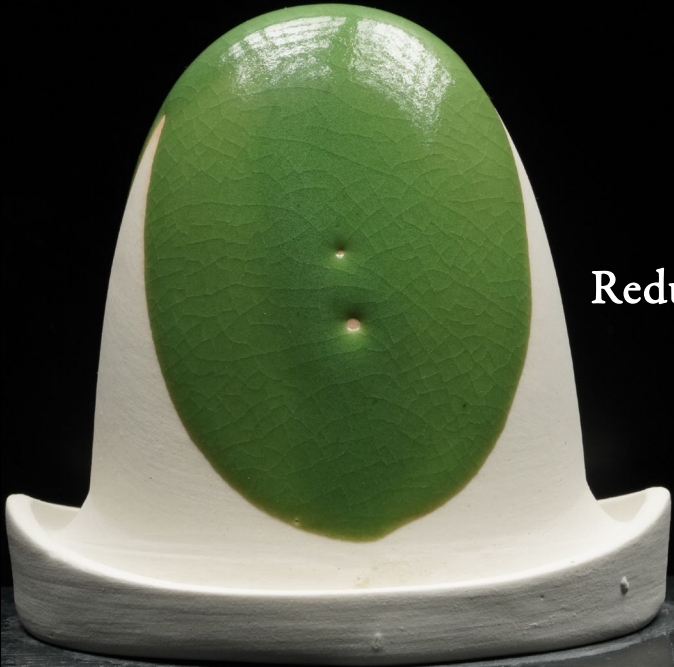
G200 EU	25.52
Strontium Carb	20.75
EPK	19.81
Flint	26.41
3134	15.28
Chrome Oxide	0.33
Water	60



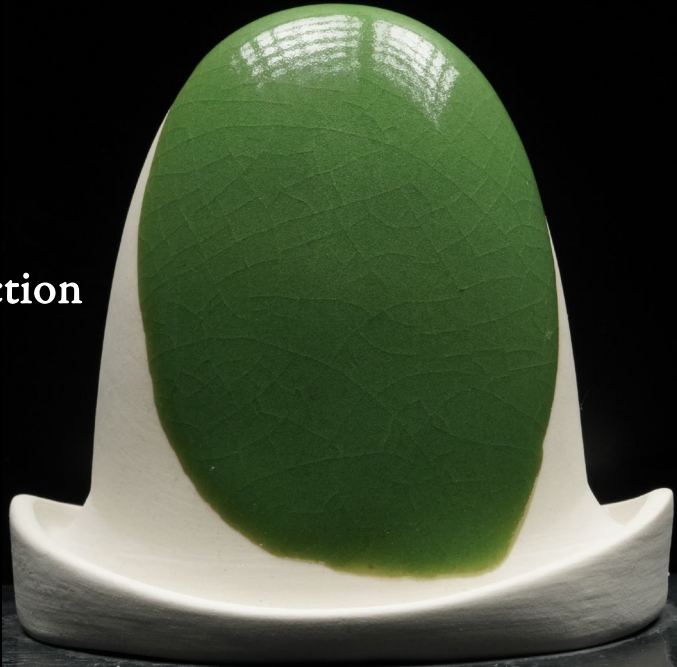
1-3 Second Dip



2-3 Second Dips



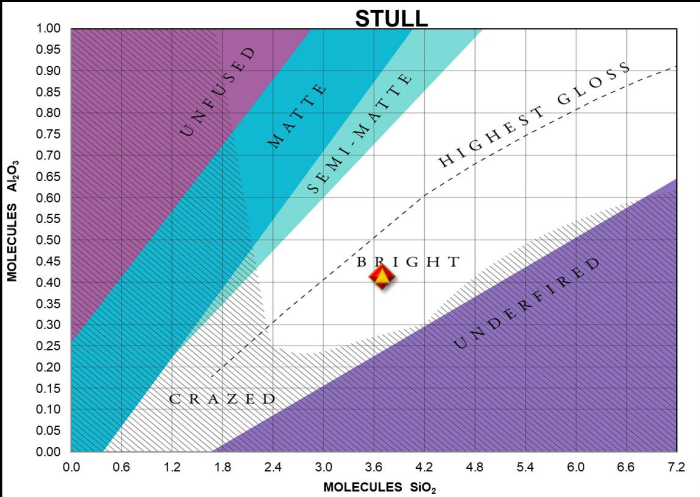
Reduction



Oxidation

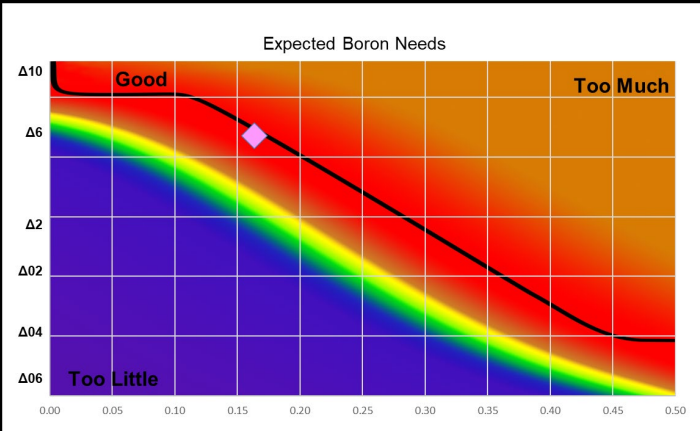
UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.87 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.00	CaO 0.23
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.52	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 8.87 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.00	CaO 0.23
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.52	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

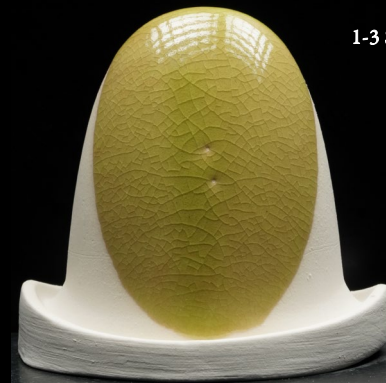
Lab 4-Alkali Metals-Oxidation



070422-1



070422-34



070422-35



070422-36



070422-37



070422-38



Original (G200 EU)



w/Minspar



w/Neph Sy



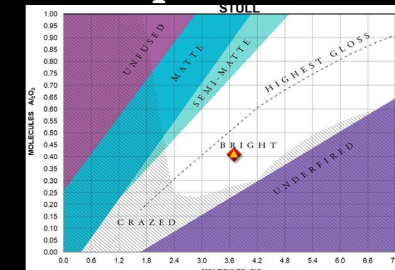
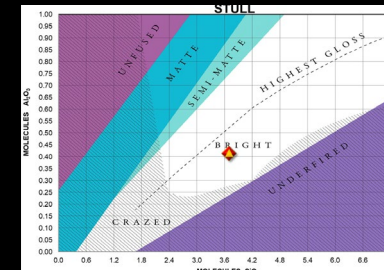
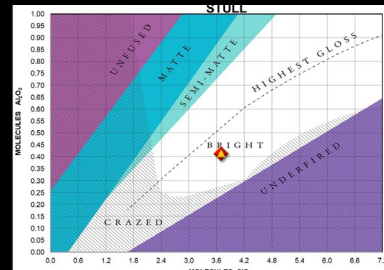
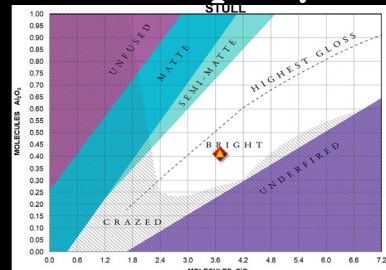
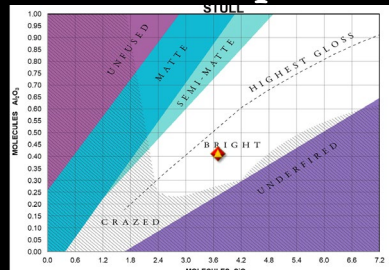
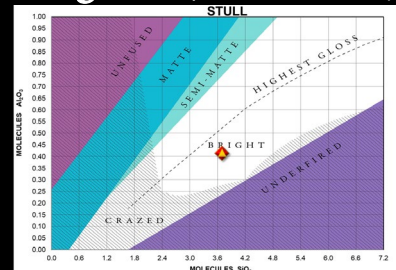
w/Custer



w/Mahavir



w/Spodumene



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Lab 4-Alkali Metals-Oxidation



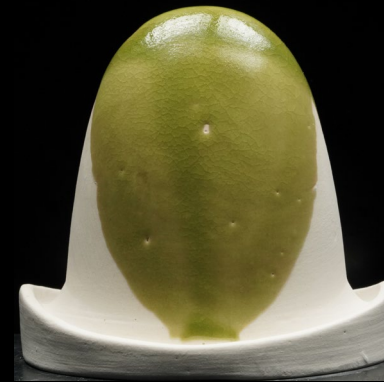
070422-1



070422-40



070422-41



070422-42

1-3 Second Dip



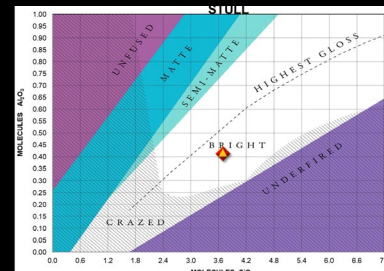
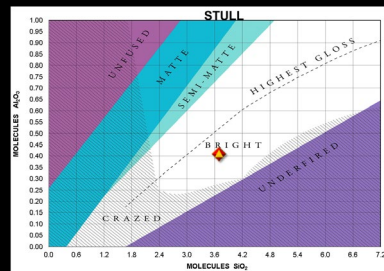
2-3 Second Dips

Original (G200 EU)

w/Frit 3110

w/Cornwall

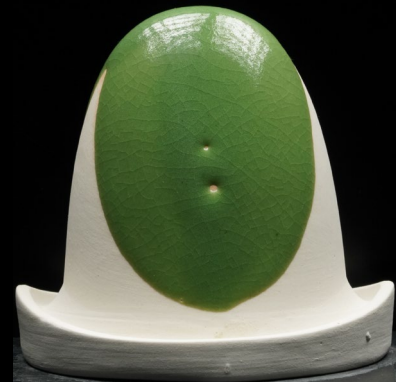
w/Lithium Carbonate



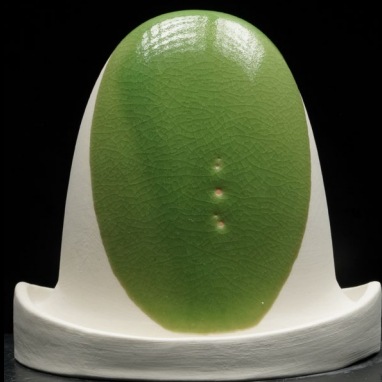
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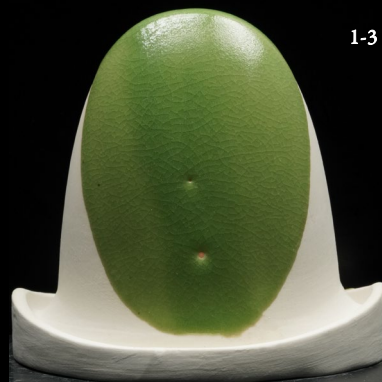
Lab 4-Alkali Metals-Reduction



070422-1



070422-34



070422-35



070422-36



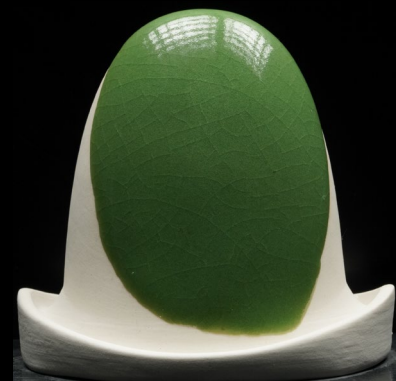
070422-37



070422-38

1-3 Second Dip

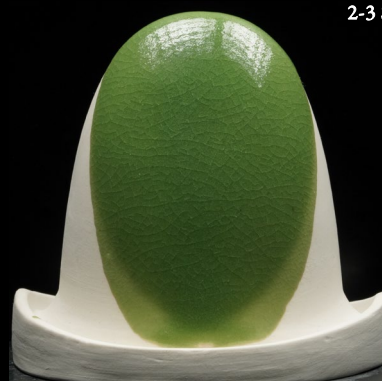
2-3 Second Dips



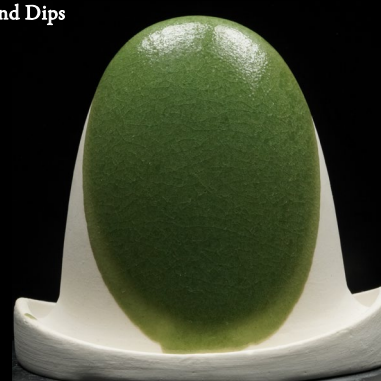
Original (G200 EU)



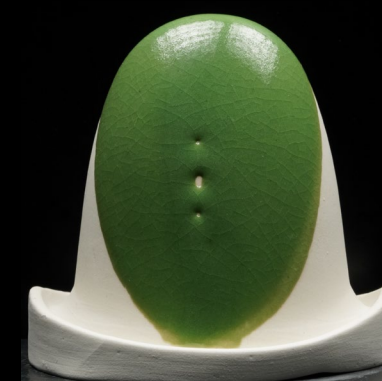
w/Minspar



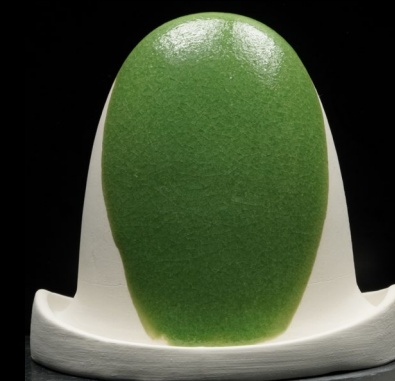
w/Neph Sy



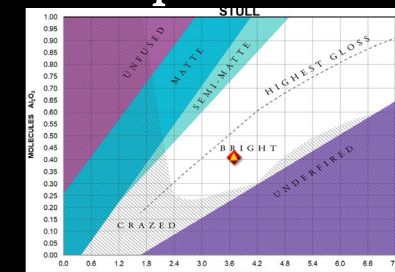
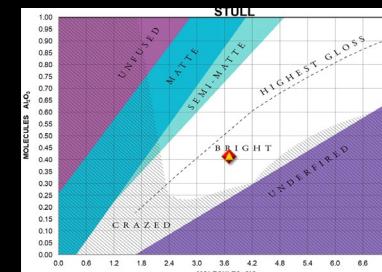
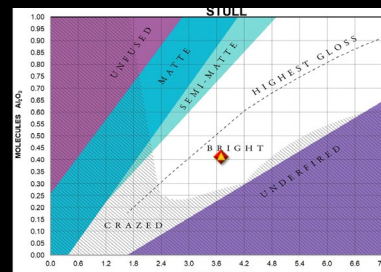
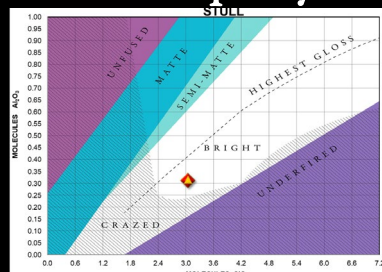
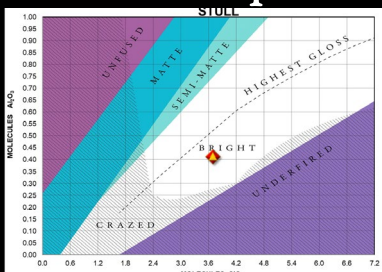
w/Custer



w/Mahavir

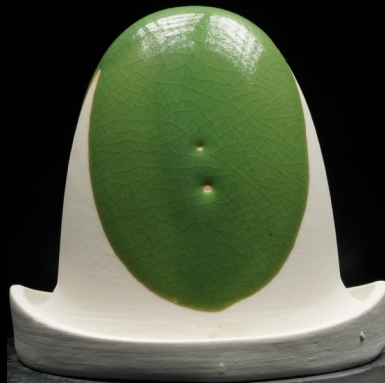


w/Spodumene

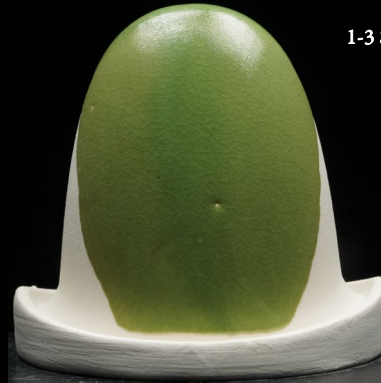


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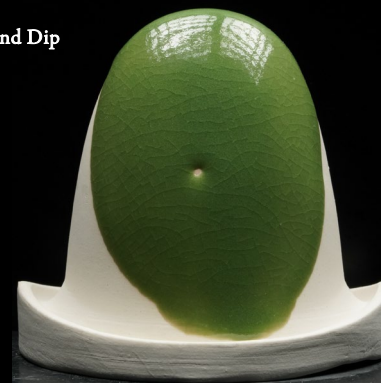
Lab 4-Alkali Metals-Reduction



070422-1



070422-40

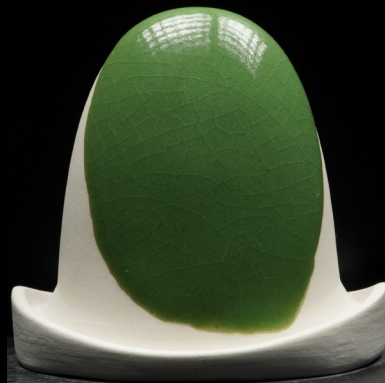


070422-41



070422-42

1-3 Second Dip



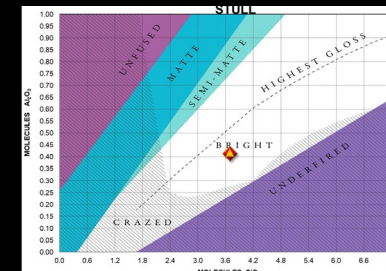
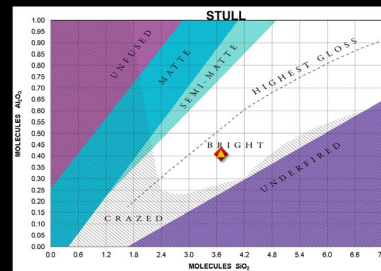
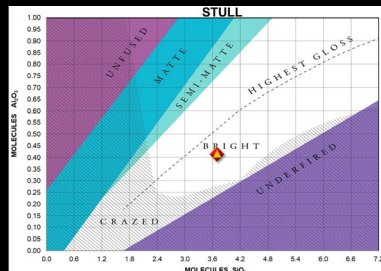
2-3 Second Dips

Original (G200 EU)

w/Frit 3110

w/Cornwall

w/Lithium Carbonate



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Lab 4-Alkaline Earth-Oxidation



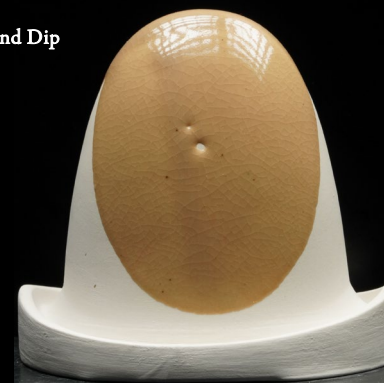
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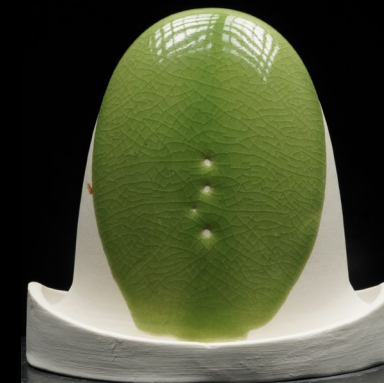
070422-43



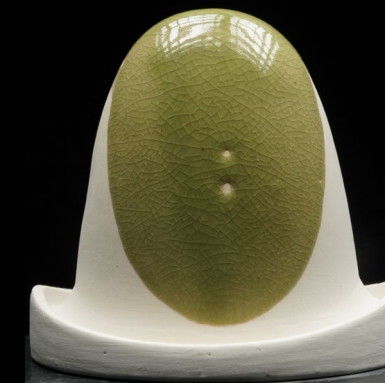
070422-44



070422-45



070422-46



070422-47

1-3 Second Dip



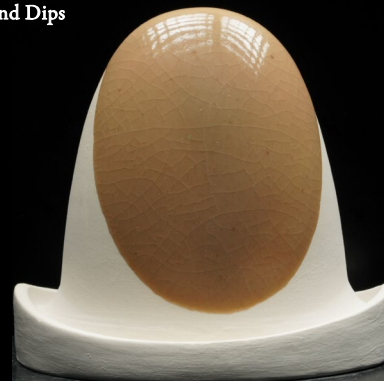
Original (SC)



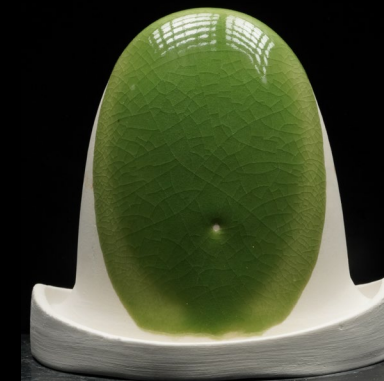
w/Talc



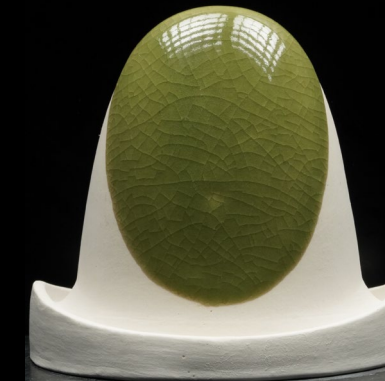
w/Mag Carb



w/Dolomite

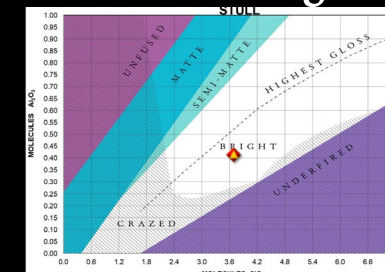
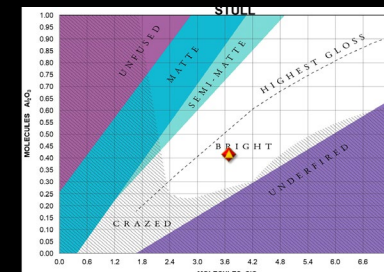
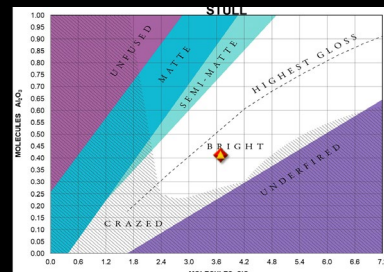
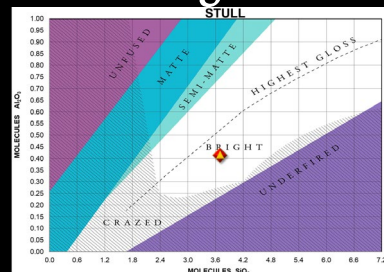
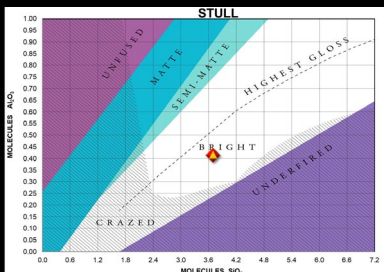
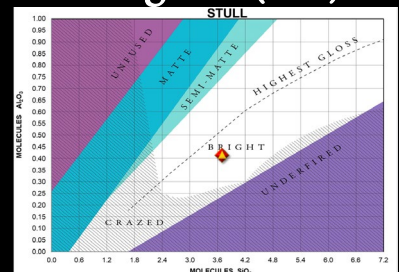


w/Wollastonite



w/Whiting

2-3 Second Dips

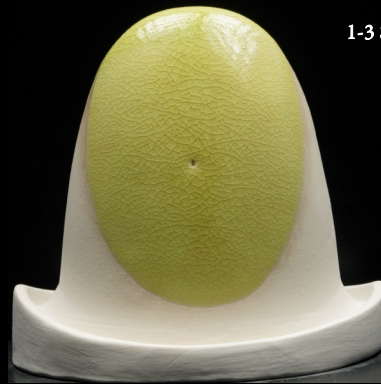


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Lab 4-Alkaline Earth-Oxidation



062322-1



062322-48



062322-49



062322-50

1-3 Second Dip

2-3 Second Dips



Original (SC)



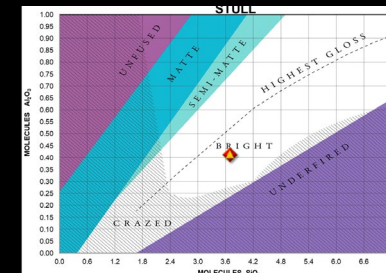
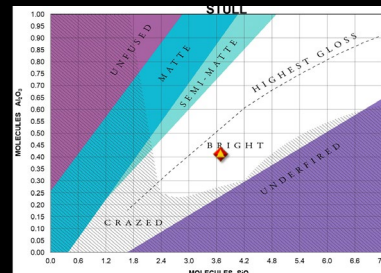
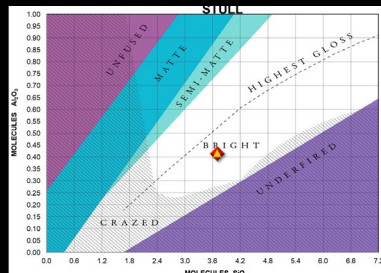
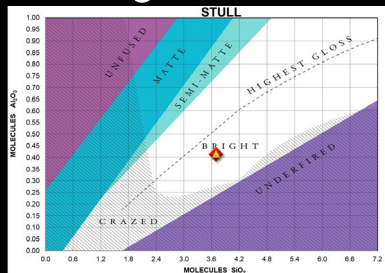
w/Barium Carb



w/Zinc Oxide



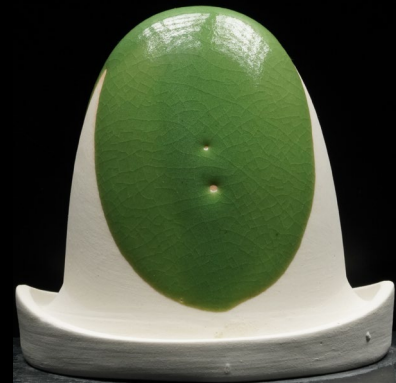
w/Bone Ash



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Lab 4-Alkaline Earth-Reduction



070422-1



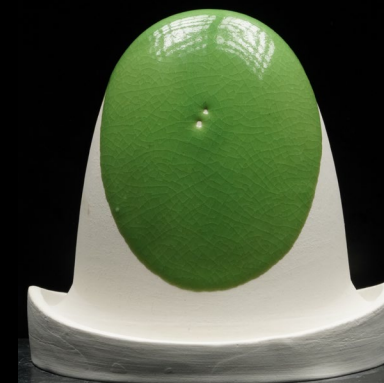
070422-43



070422-44



070422-45

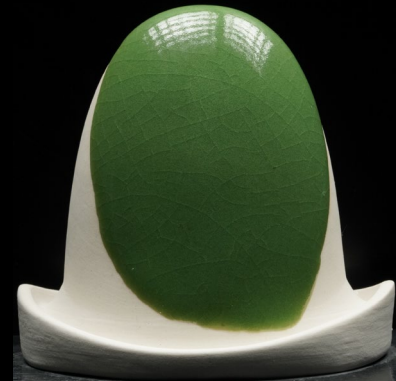


070422-46



070422-47

1-3 Second Dip



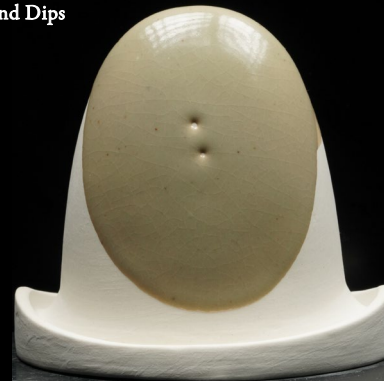
Original (SC)



w/Talc



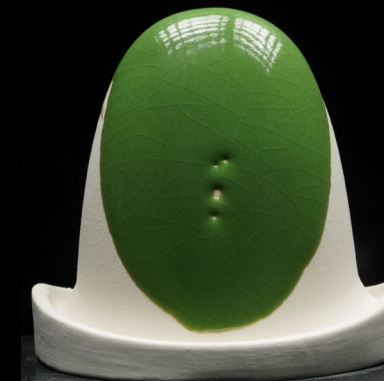
w/Mag Carb



w/Dolomite

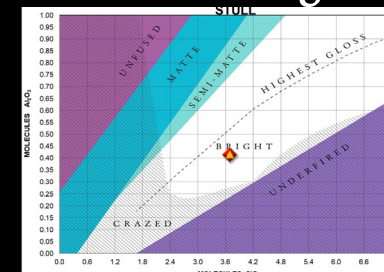
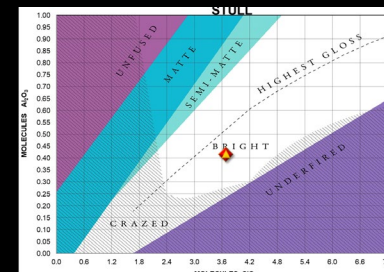
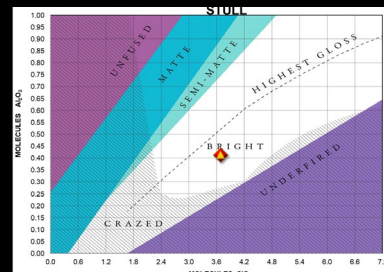
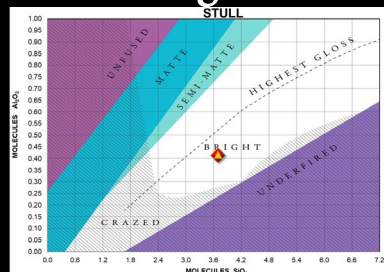
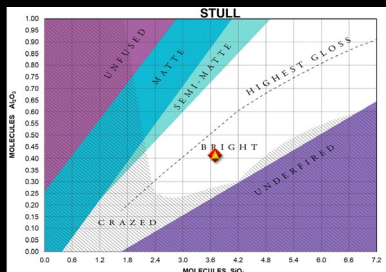


w/Wollastonite



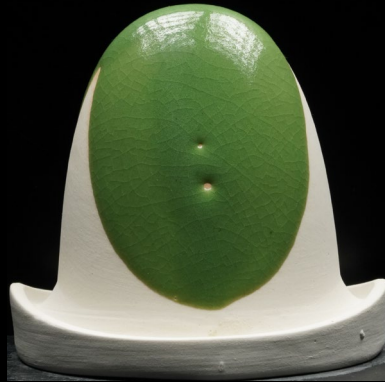
w/Whiting

2-3 Second Dips

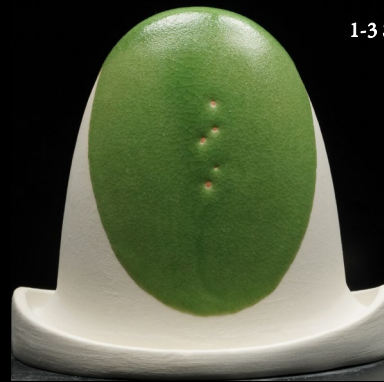


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Lab 4-Alkaline Earth-Reduction



062322-1



062322-48



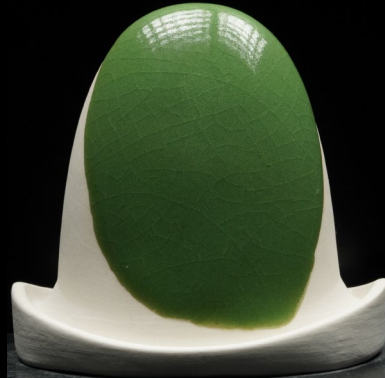
062322-49



062322-50

1-3 Second Dip

2-3 Second Dips



Original (SC)



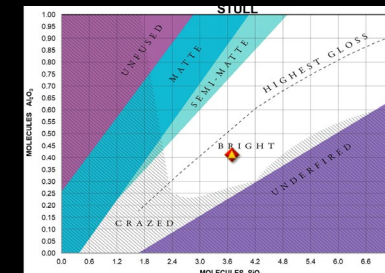
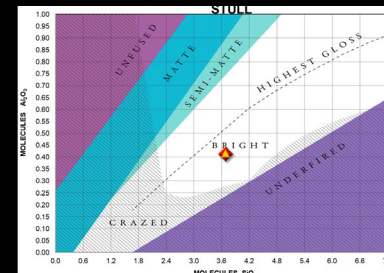
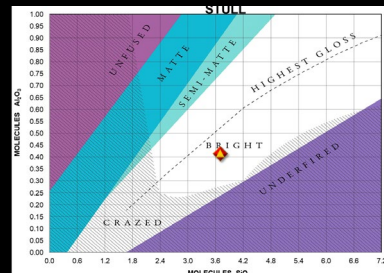
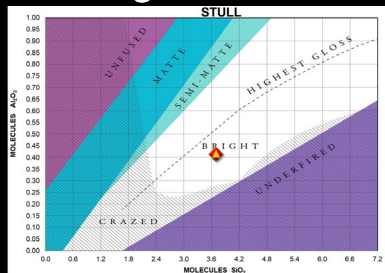
w/Barium Carb



w/Zinc Oxide



w/Bone Ash



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Glassy Eyed

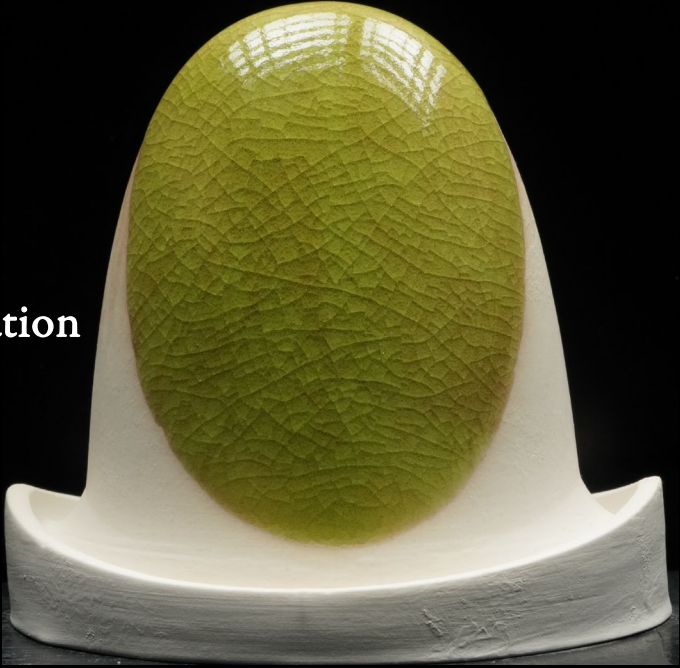
Original

070422-1

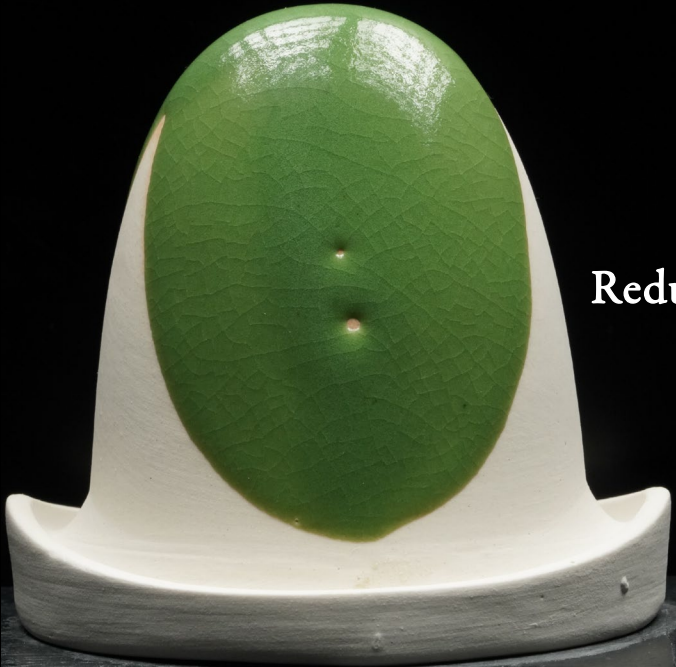
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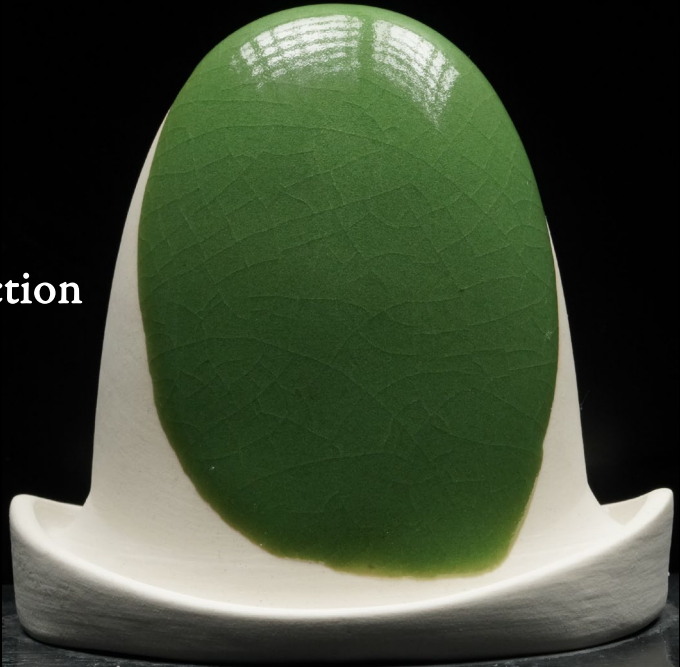
1-3 Second Dip



2-3 Second Dips



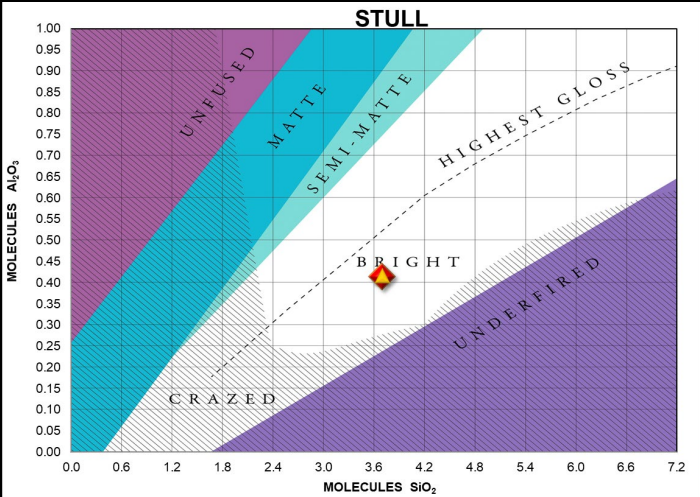
Reduction



Reduction

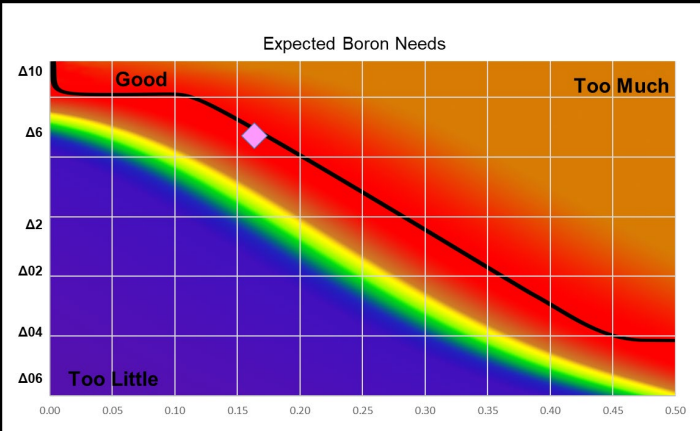
UMF

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B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.52	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 8.87 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.00	CaO 0.23
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.52	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Glassy Eyed

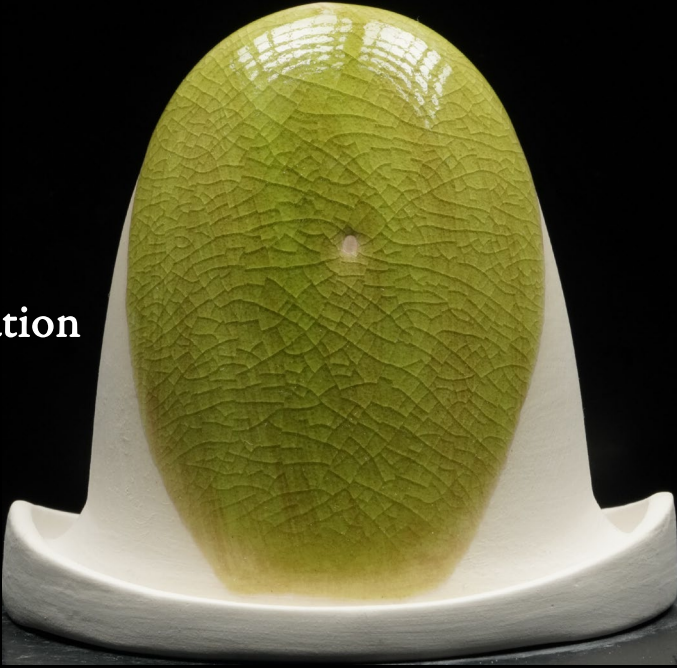
Chemical Match
Minspar Feldspar
070422-34

Minspar	25.52
Strontium Carb	18.83
EPK	16.69
Flint	24.45
3134	14.50
Chrome Oxide	0.30
Water	85

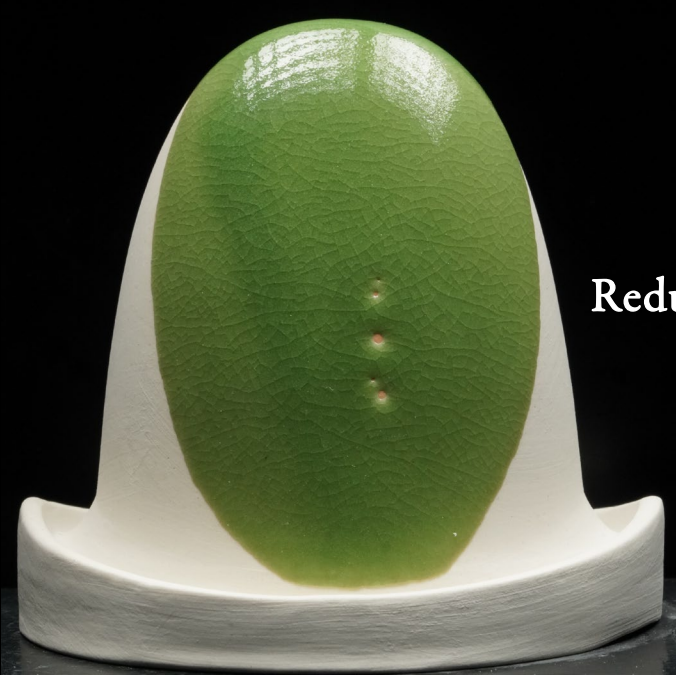


Oxidation

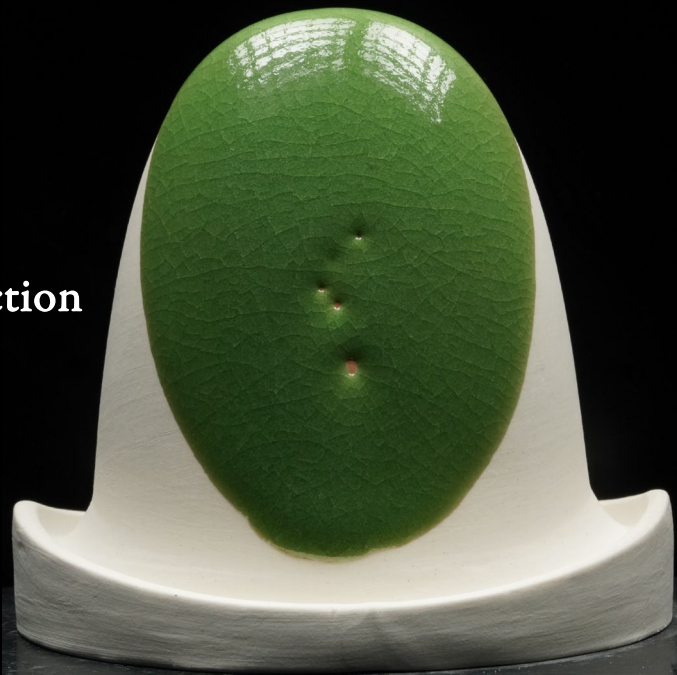
1-3 Second Dip



2-3 Second Dips

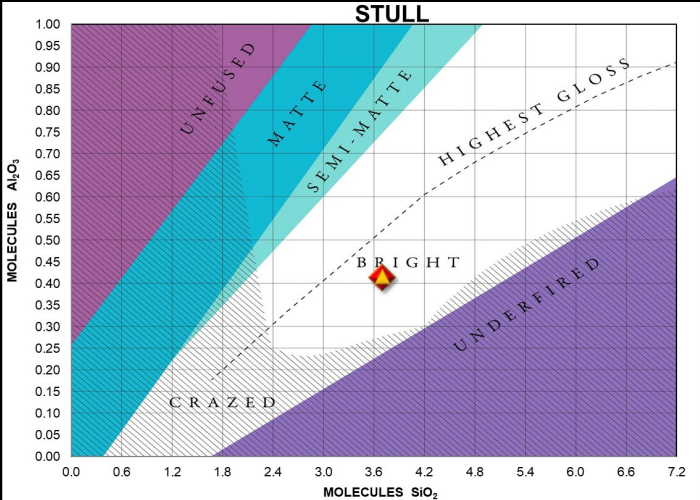


Reduction



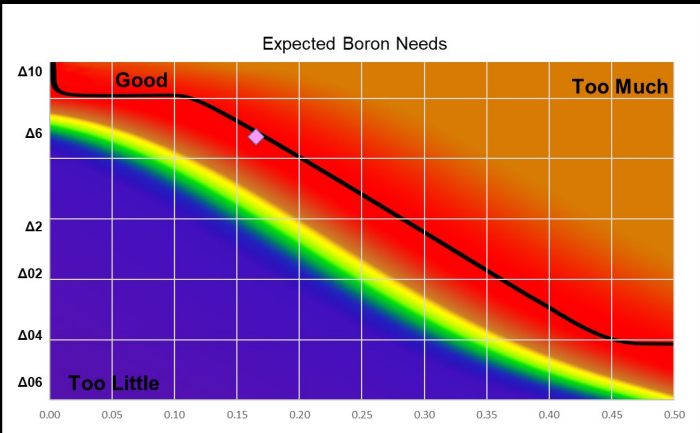
UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.87 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.00	CaO 0.25
B ₂ O ₃ 0.17	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.50	BaO 0.00
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 8.87 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.19	K ₂ O 0.05	MgO 0.00	CaO 0.25
B ₂ O ₃ 0.17	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.50	BaO 0.00
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

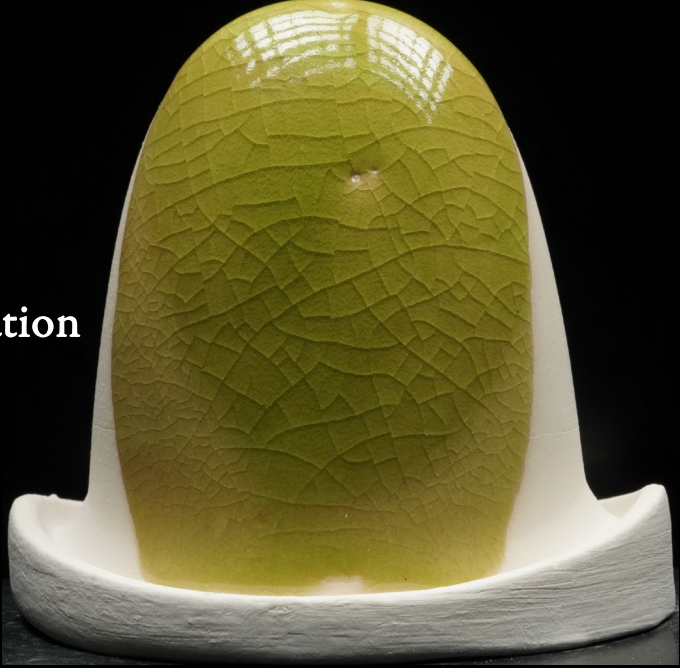
Glassy Eyed

Chemical Match
Nepheline Syenite
070422-35

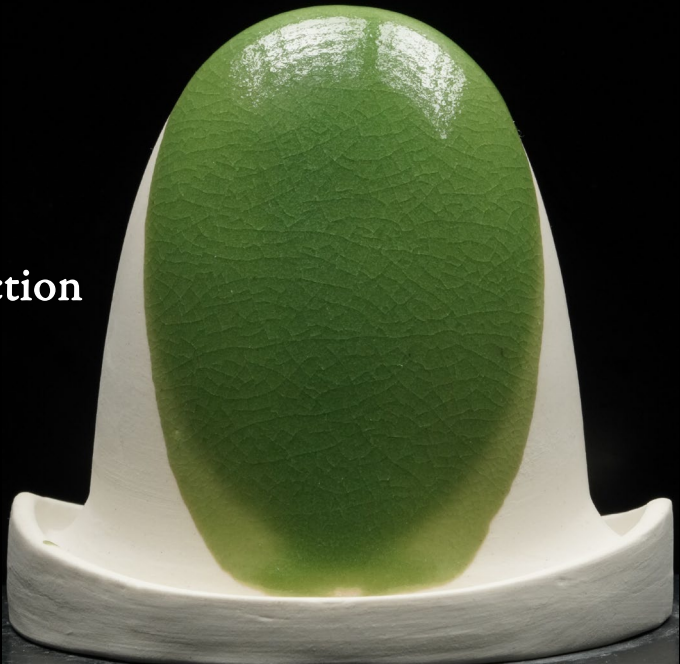
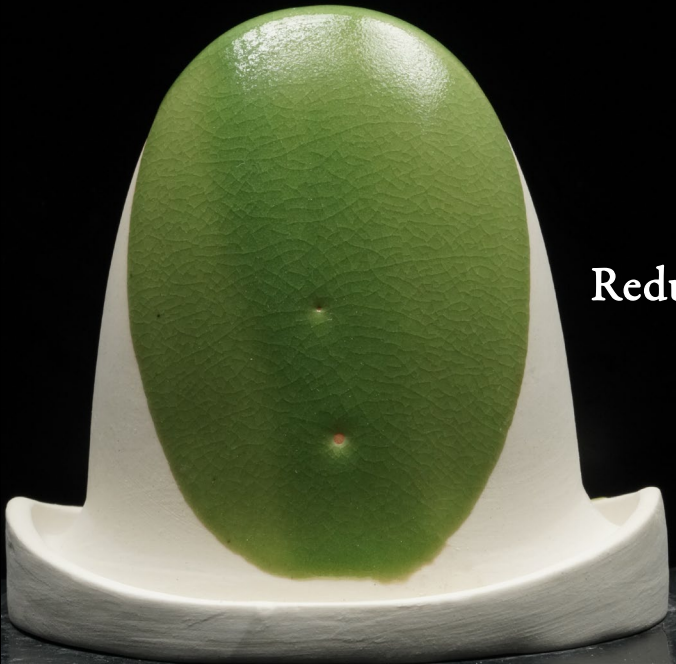
Neph Sy	16.65
Strontium Carb	19.62
EPK	19.25
Flint	30.27
3134	14.21
Chrome Oxide	0.30
Water	80



1-3 Second Dip



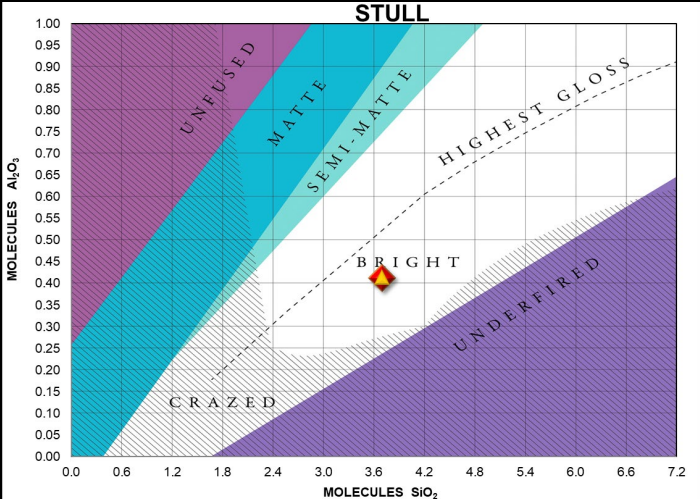
2-3 Second Dips



Reduction

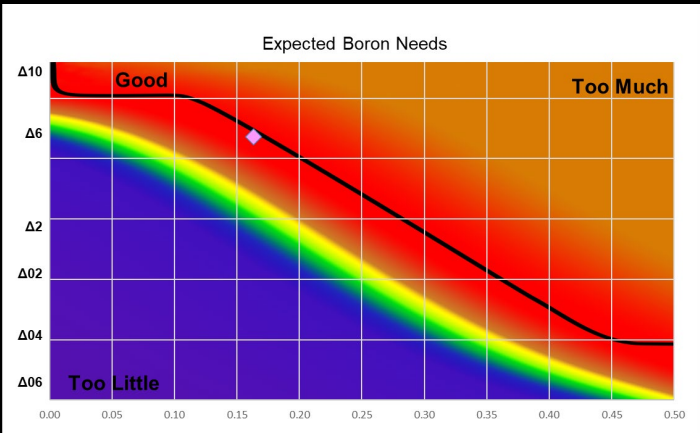
UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.91 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.00	CaO 0.22
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.52	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 8.91 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.00	CaO 0.22
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.52	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Glassy Eyed

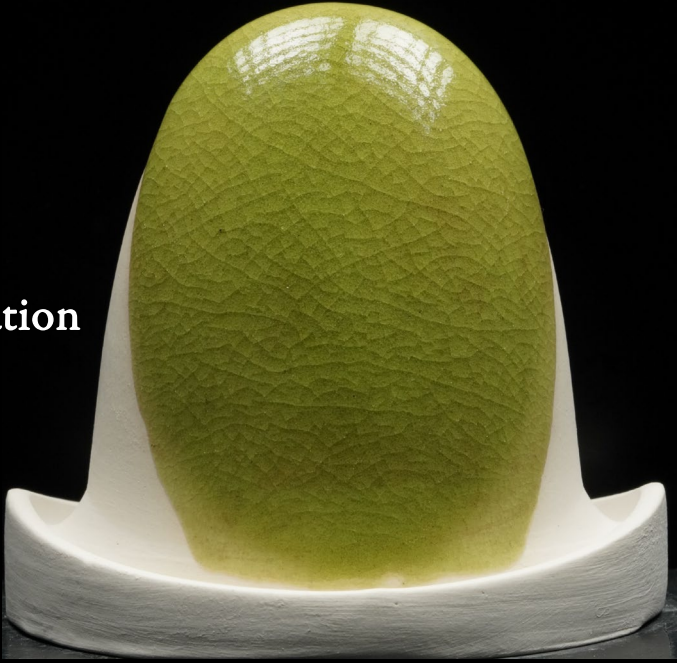
Chemical Match
Custer Feldspar
070422-36

Custer	24.35
Strontium Carb	18.89
EPK	18.91
Flint	23.26
3134	14.59
Chrome Oxide	0.30
Water	85

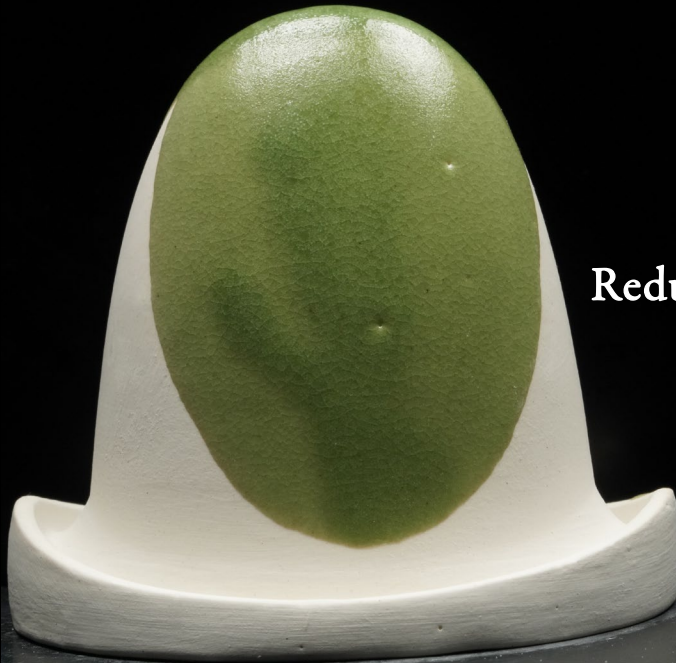


Oxidation

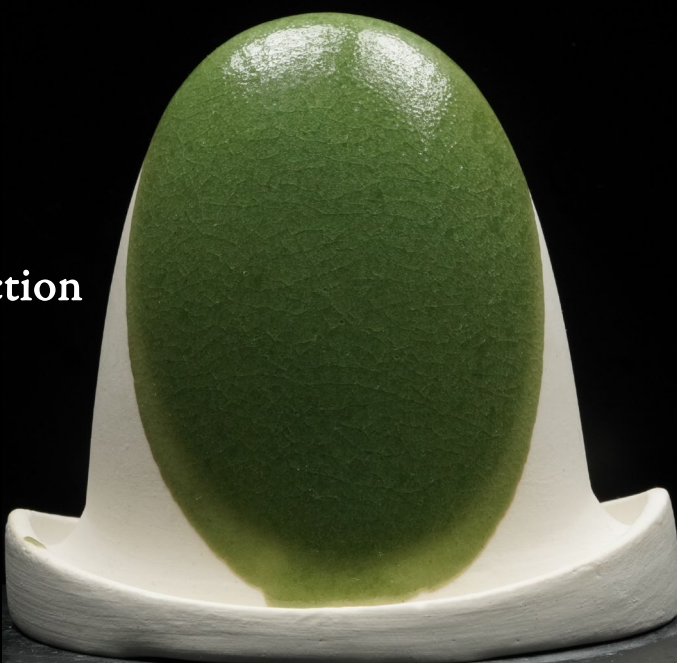
1-3 Second Dip



2-3 Second Dips

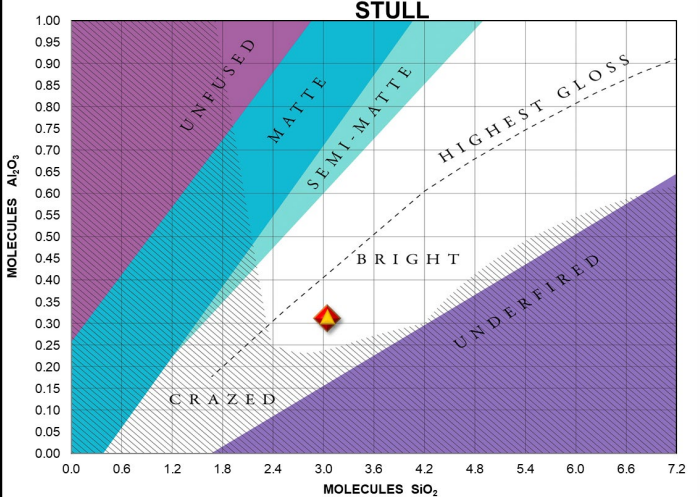


Reduction



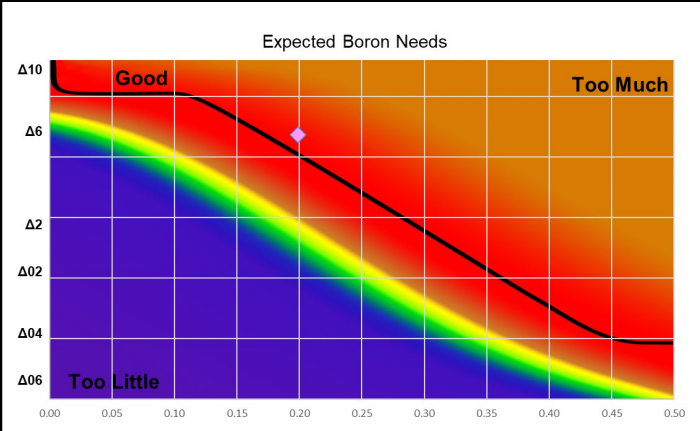
UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.63 : 1		Alkali Metals 0.12		Alkaline Earths 0.88	
SiO ₂ 3.05	Collective "Al ₂ O ₃ " 0.32	Na ₂ O 0.11	K ₂ O 0.00	MgO 0.00	CaO 0.27
B ₂ O ₃ 0.20	Al ₂ O ₃ 0.31	Li ₂ O	CuO	SrO 0.60	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 9.63 : 1		Alkali Metals 0.12		Alkaline Earths 0.88	
SiO ₂ 3.05	Collective "Al ₂ O ₃ " 0.32	Na ₂ O 0.11	K ₂ O 0.00	MgO 0.00	CaO 0.27
B ₂ O ₃ 0.20	Al ₂ O ₃ 0.31	Li ₂ O	CuO	SrO 0.60	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Glassy Eyed

Chemical Match
Mahavir Feldspar
070422-37

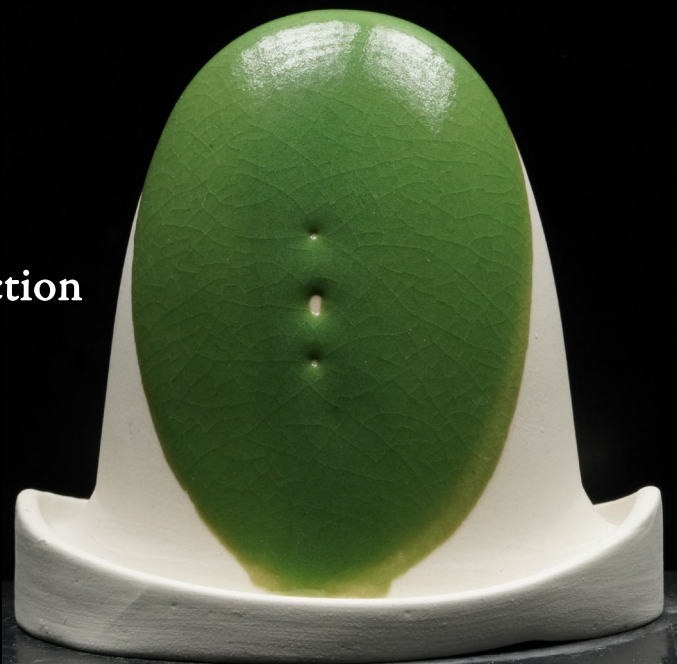
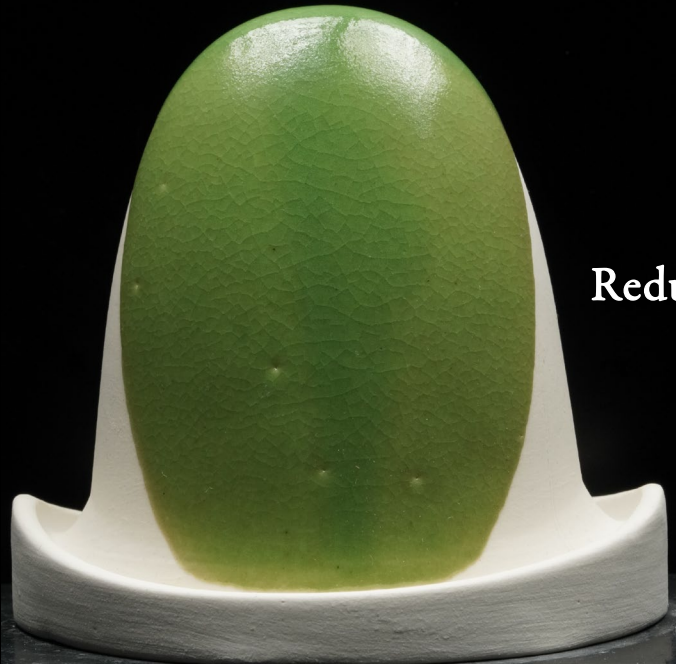
Mahavir	21.08
Strontium Carb	19.33
EPK	19.23
Flint	26.17
3134	14.19
Chrome Oxide	0.30
Water	85



1-3 Second Dip



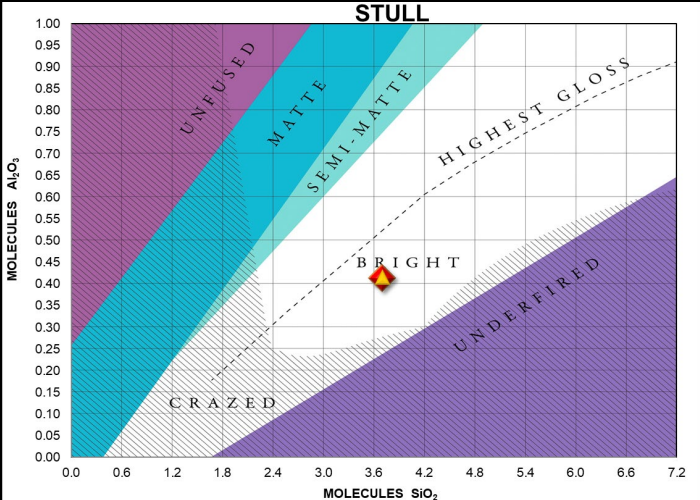
2-3 Second Dips



Reduction

UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.88 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.01	CaO 0.22
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.52	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 8.88 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.01	CaO 0.22
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.52	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Glassy Eyed

Chemical Match
Spodumene
070422-38

Spodumene	13.84
Strontium Carb	20.17
EPK	19.52
Flint	32.22
3134	14.24
Chrome Oxide	0.30
Water	85

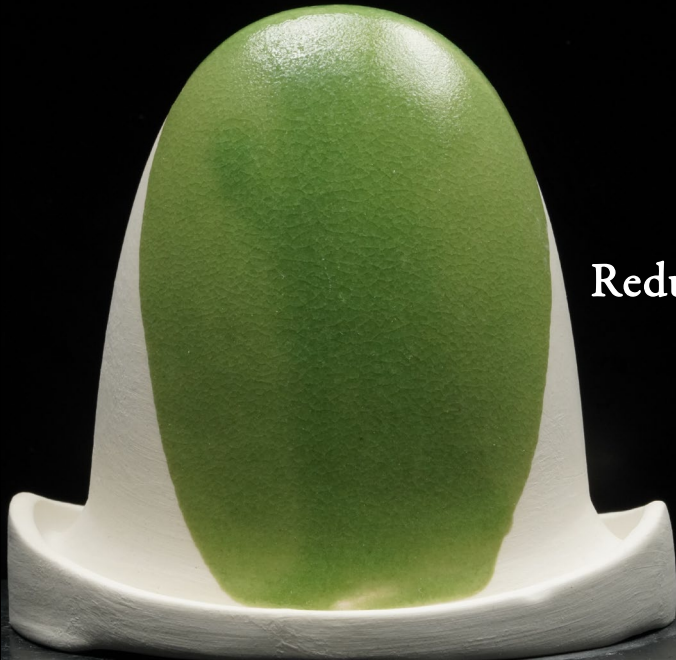


Oxidation

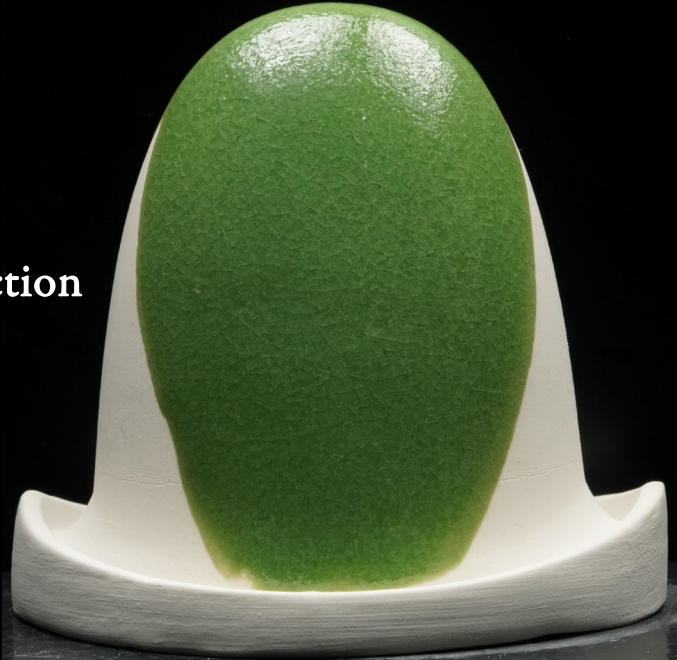
1-3 Second Dip



2-3 Second Dips

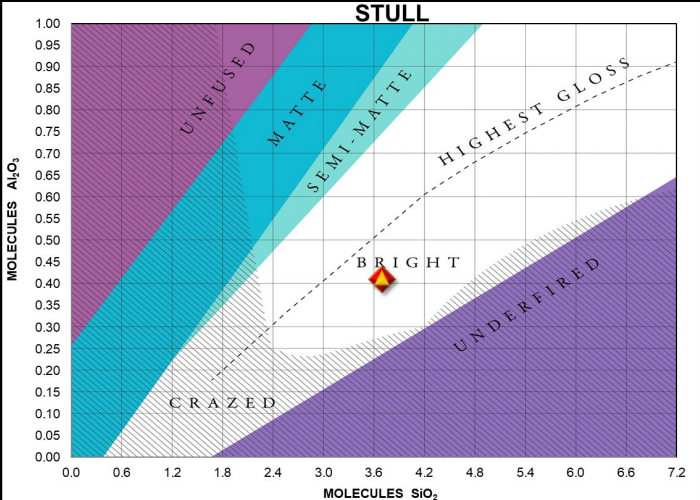


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.93 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.09	K ₂ O 0.00	MgO 0.00	CaO 0.22
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O 0.14	CuO 0.00	SrO 0.53	BaO 0.00
TiO ₂ 0.00	NiO 0.00	Bi ₂ O ₃ 0.00	SnO ₂ 0.00	ZnO 0.00	FeO 0.01
Cr ₂ O ₃ 0.00	ZrO ₂ 0.00	P ₂ O ₅ 0.00		MnO ₂ 0.00	CoO 0.00



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.93 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.09	K ₂ O 0.00	MgO 0.00	CaO 0.22
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O 0.14	CuO 0.00	SrO 0.53	BaO 0.00
TiO ₂ 0.00	NiO 0.00	Bi ₂ O ₃ 0.00	SnO ₂ 0.00	ZnO 0.00	FeO 0.01
Cr ₂ O ₃ 0.01	ZrO ₂ 0.00	P ₂ O ₅ 0.00		MnO ₂ 0.00	CoO 0.00



Ceramic
Materials
Workshop

Glassy Eyed

Chemical Match

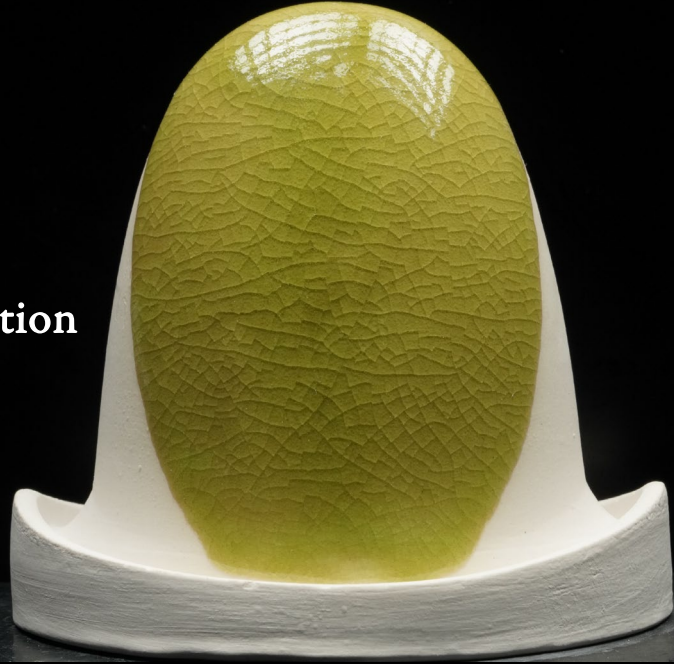
Frit 3110

070422-40

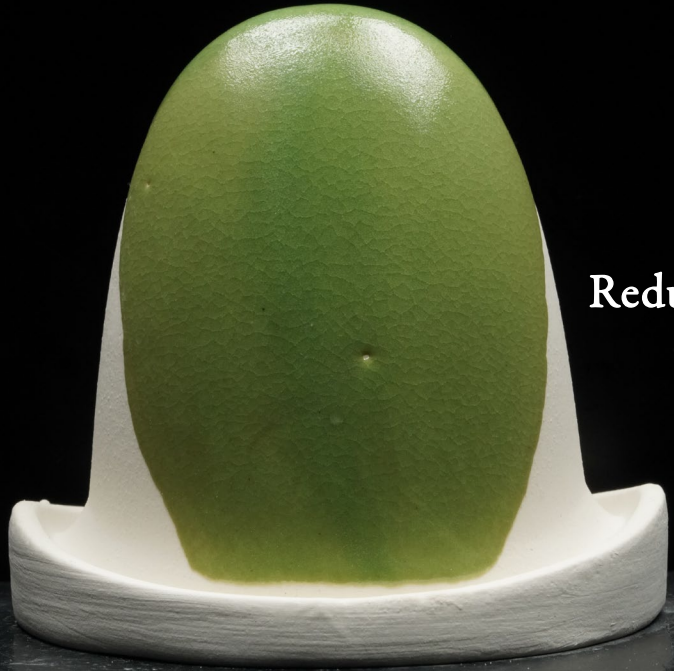
3110	13.77
Strontium Carb	18.35
EPK	28.08
Flint	27.37
3134	12.42
Chrome Oxide	0.30
Water	60



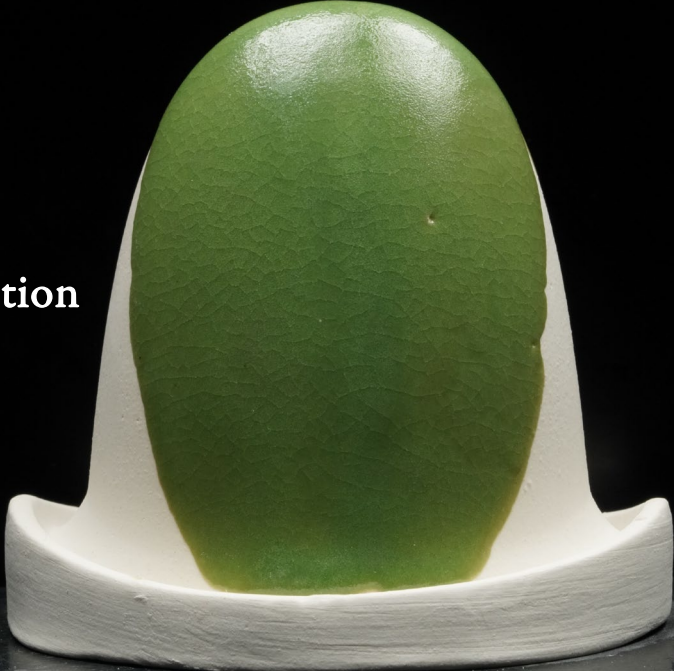
1-3 Second Dip



2-3 Second Dips



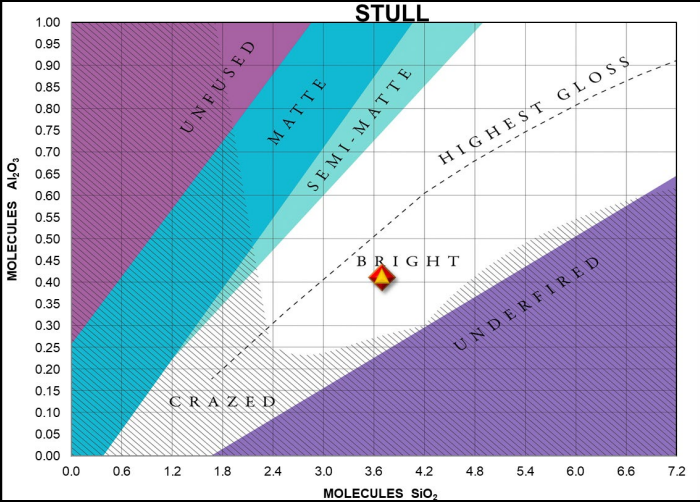
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.88 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.22	K ₂ O 0.02	MgO 0.00	CaO 0.25
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.49	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.88 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.22	K ₂ O 0.02	MgO 0.00	CaO 0.25
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO 0.49	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Glassy Eyed

Chemical Match
Cornwall
070422-41

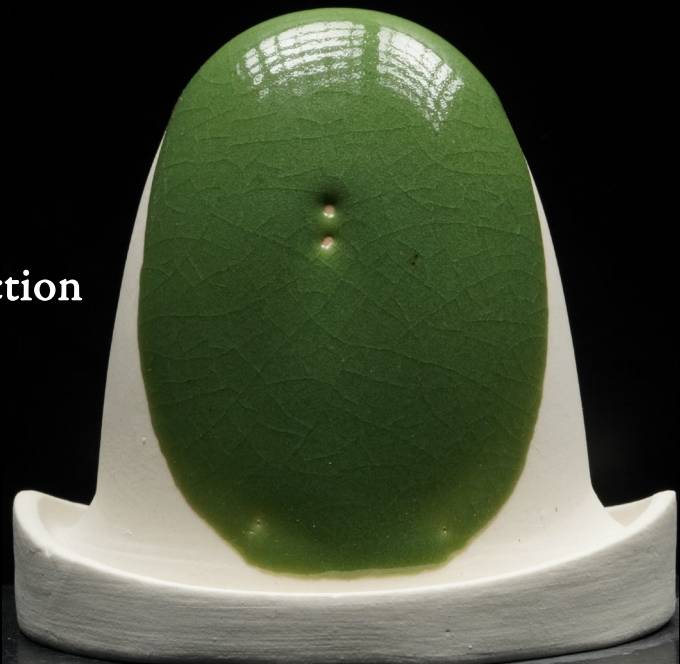
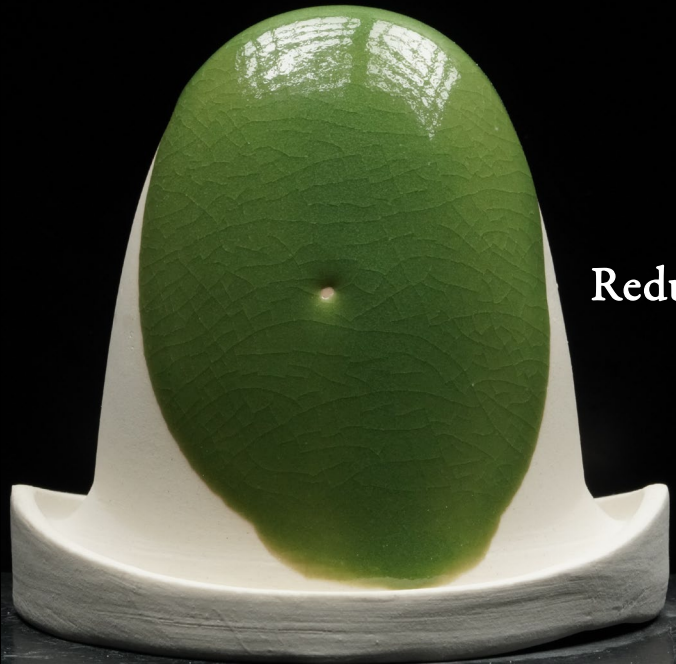
Cornwall	39.85
Strontium Carb	17.58
EPK	13.93
Flint	13.22
3134	15.42
Chrome Oxide	0.30
Water	75



1-3 Second Dip



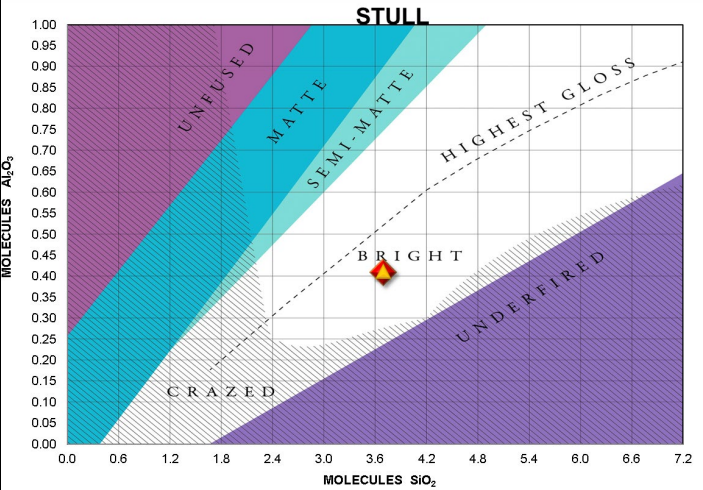
2-3 Second Dips



Reduction

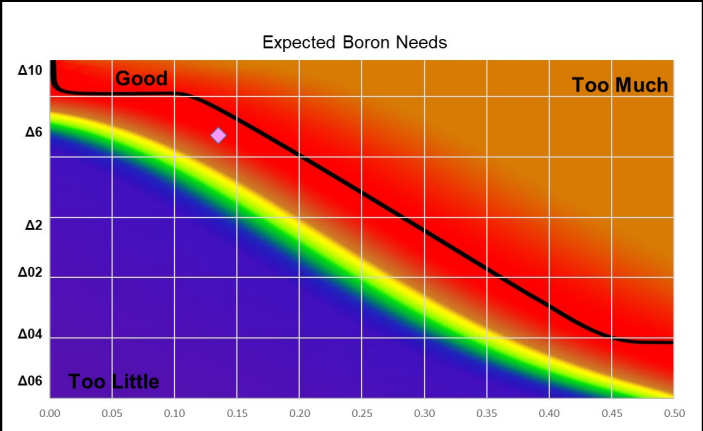
UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.98 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.17	K ₂ O 0.06	MgO 0.01	CaO 0.28
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.41	Li ₂ O 0.00	CuO 0.00	SrO 0.46	BaO 0.00
TiO ₂ 0.00	NiO 0.00	Bi ₂ O ₃ 0.00	SnO ₂ 0.00	ZnO 0.00	FeO 0.02
Cr ₂ O ₃ 0.00	ZrO ₂ 0.00	P ₂ O ₅ 0.00		MnO ₂ 0.00	CoO 0.00



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.98 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.17	K ₂ O 0.06	MgO 0.01	CaO 0.28
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.41	Li ₂ O 0.00	CuO 0.00	SrO 0.46	BaO 0.00
TiO ₂ 0.00	NiO 0.00	Bi ₂ O ₃ 0.00	SnO ₂ 0.00	ZnO 0.00	FeO 0.02
Cr ₂ O ₃ 0.01	ZrO ₂ 0.00	P ₂ O ₅ 0.00		MnO ₂ 0.00	CoO 0.00

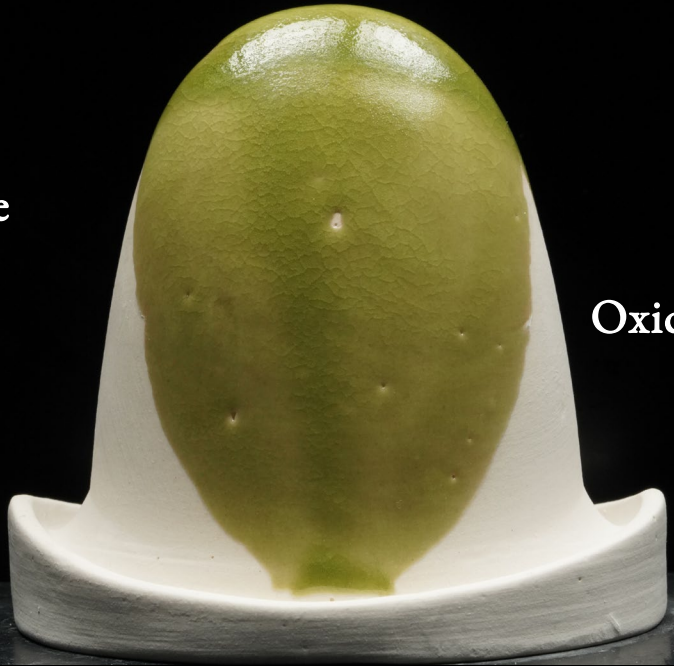


Ceramic
Materials
Workshop

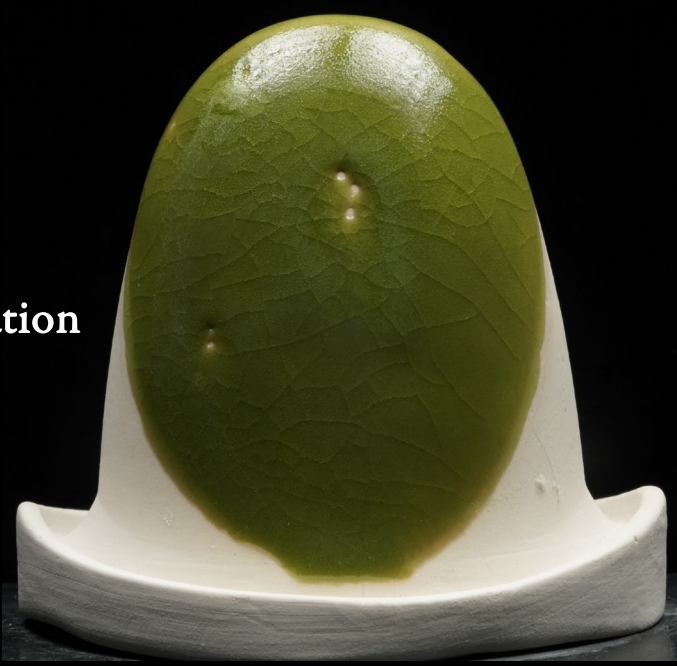
Glassy Eyed

Chemical Match
Lithium Carbonate
070422-42

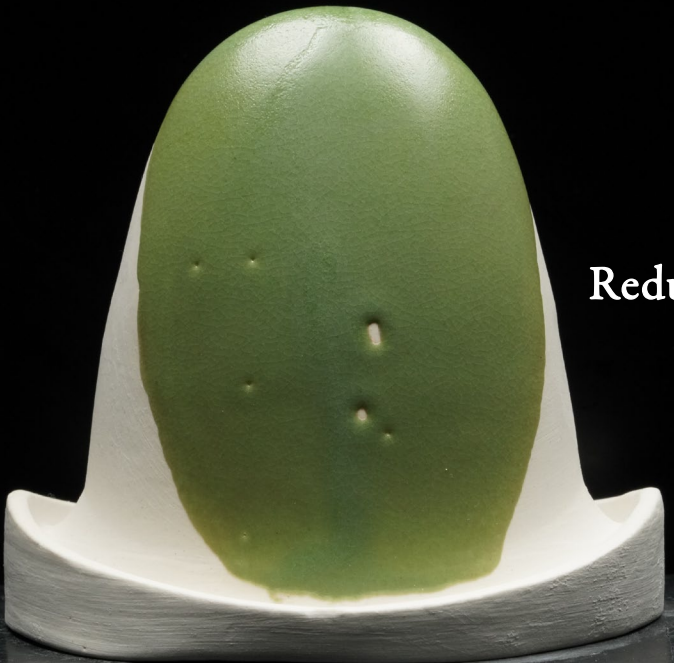
Lithium Carb	2.48
Strontium Carb	19.27
EPK	29.28
Flint	34.85
3134	14.11
Chrome Oxide	0.30
Water	90



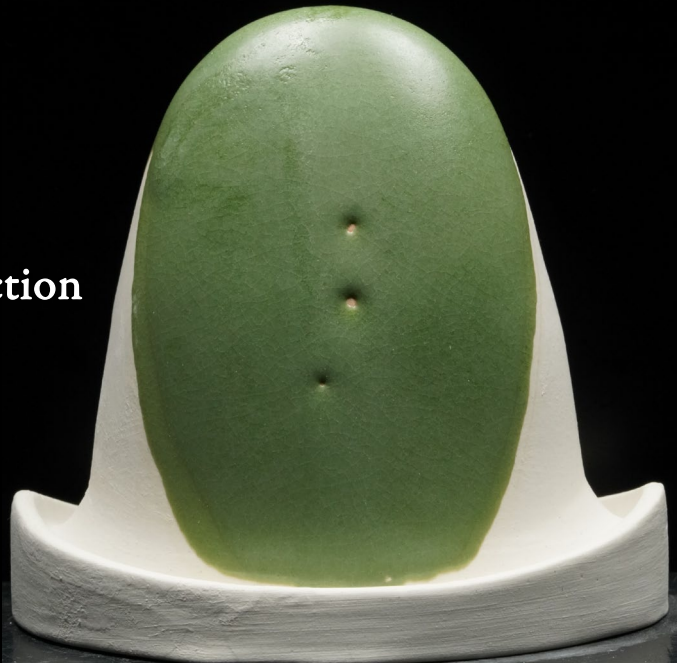
1-3 Second Dip



2-3 Second Dips



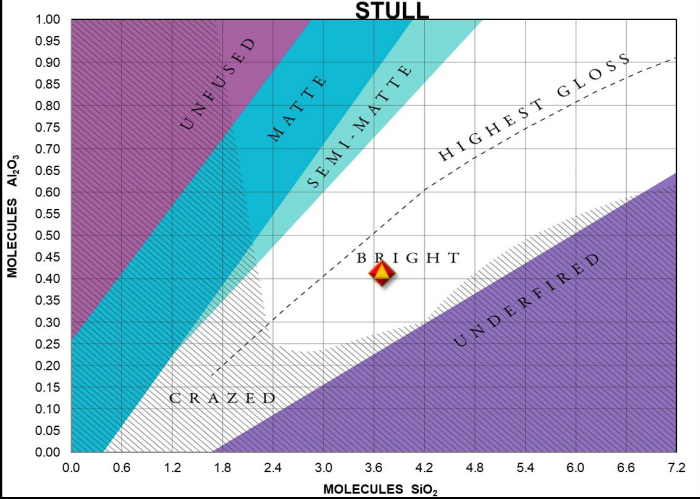
Reduction



Oxidation

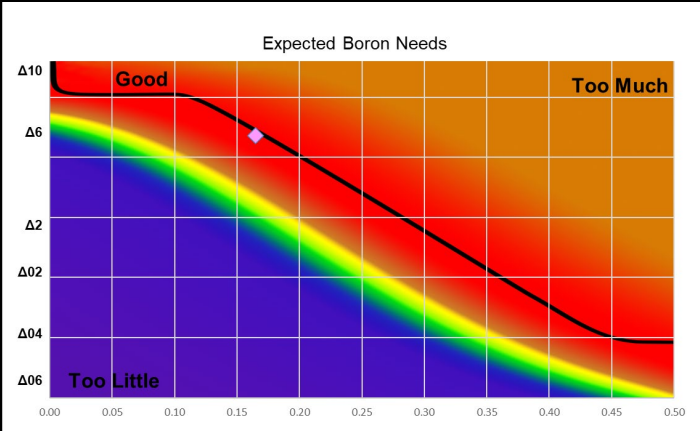
UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.81 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.09	K ₂ O 0.00	MgO 0.00	CaO 0.22
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O 0.13	CuO 0.00	SrO 0.52	BaO 0.00
TiO ₂ 0.01	NiO 0.00	Bi ₂ O ₃ 0.00	SnO ₂ 0.00	ZnO 0.00	FeO 0.02
Cr ₂ O ₃ 0.01	ZrO ₂ 0.00	P ₂ O ₅ 0.00		MnO ₂ 0.00	CoO 0.00



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.81 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.09	K ₂ O 0.00	MgO 0.00	CaO 0.22
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O 0.13	CuO 0.00	SrO 0.52	BaO 0.00
TiO ₂ 0.01	NiO 0.00	Bi ₂ O ₃ 0.00	SnO ₂ 0.00	ZnO 0.00	FeO 0.02
Cr ₂ O ₃ 0.01	ZrO ₂ 0.00	P ₂ O ₅ 0.00		MnO ₂ 0.00	CoO 0.00



Ceramic
Materials
Workshop

Glassy Eyed

Chemical Match
Talc

070422-43

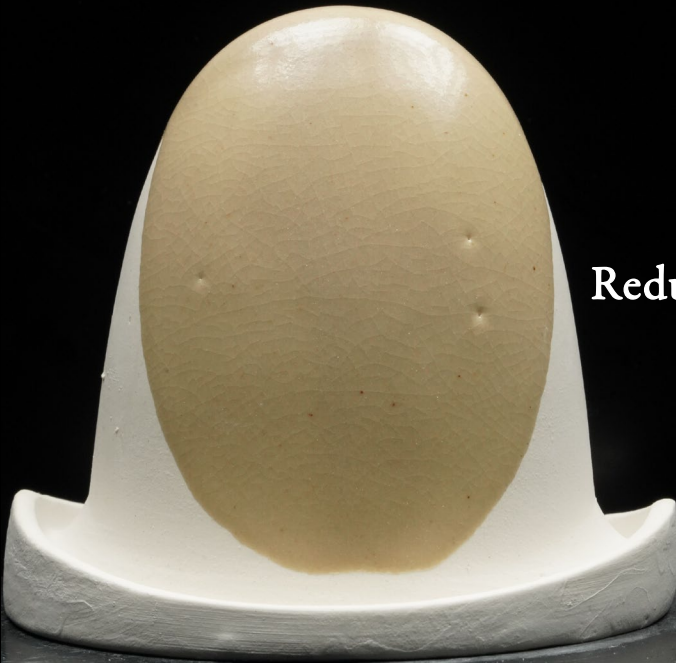
G200 EU	27.54
Talc	18.55
EPK	20.35
Flint	17.90
3134	15.66
Chrome Oxide	0.33
Water	80



1-3 Second Dip



2-3 Second Dips



Reduction

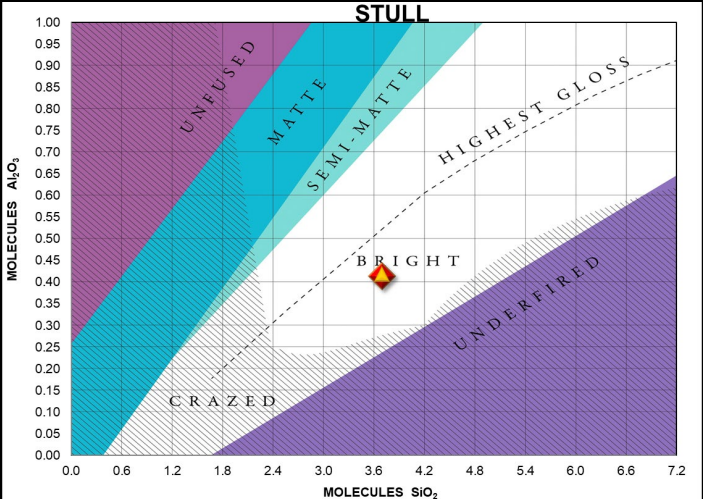


Reduction

Oxidation

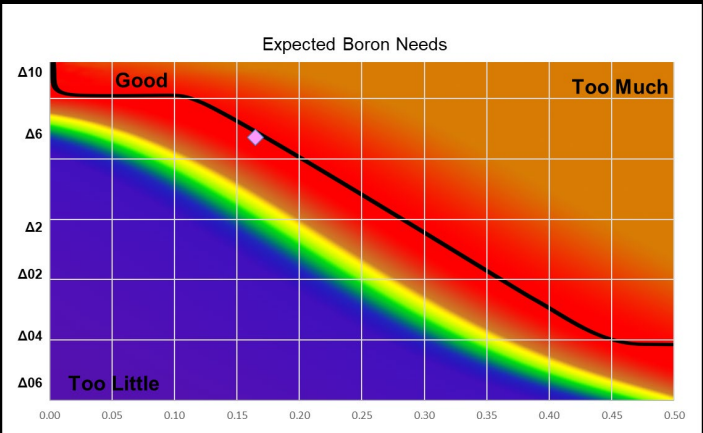
UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.93 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.12	K ₂ O 0.12	MgO 0.48	CaO 0.26
B ₂ O ₃ 0.16	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 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.93 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.12	K ₂ O 0.12	MgO 0.48	CaO 0.26
B ₂ O ₃ 0.16	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 0.02
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

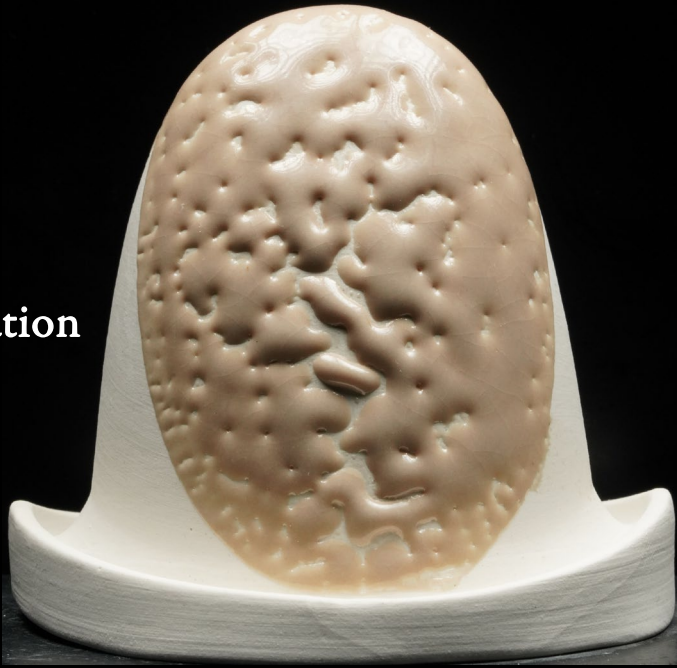
Glassy Eyed

Chemical Match
Magnesium Carbonate
070422-44

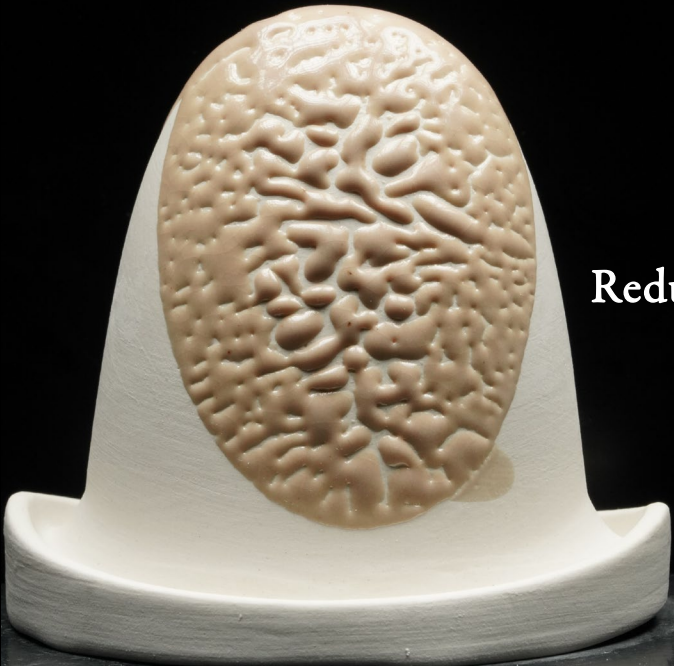
G200 EU	31.05
Mag Carbonate	14.26
EPK	24.61
Flint	11.07
3134	19.01
Chrome Oxide	0.38
Water	120



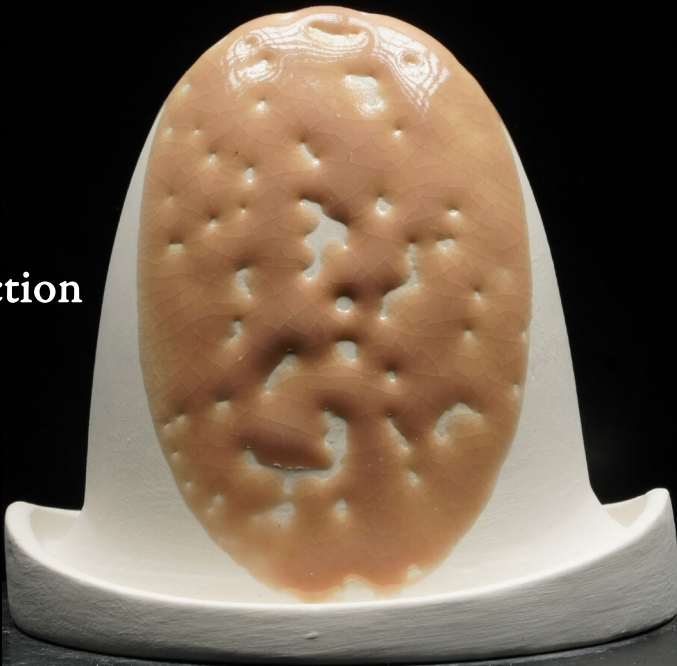
1-3 Second Dip



2-3 Second Dips



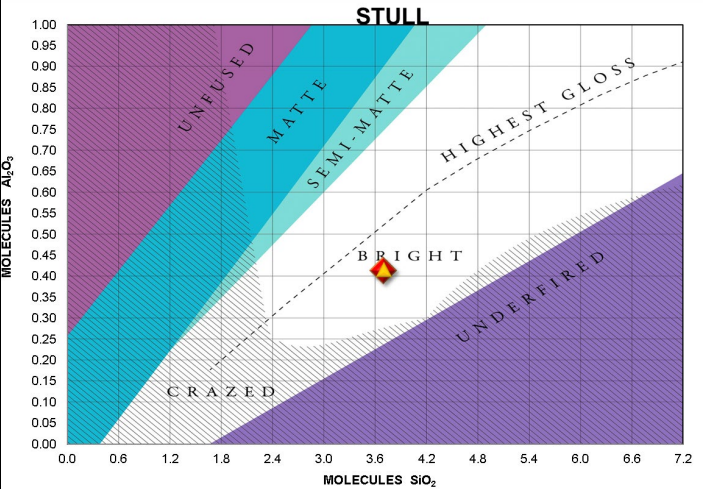
Reduction



Oxidation

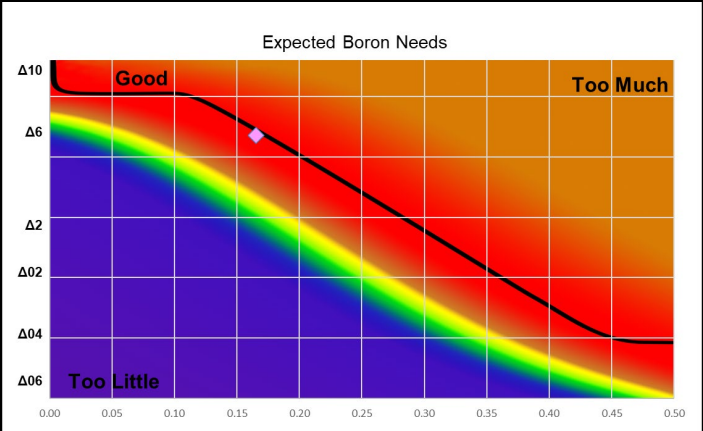
UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.87 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.52	CaO 0.23
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.87 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.52	CaO 0.23
B ₂ O ₃ 0.16	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 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

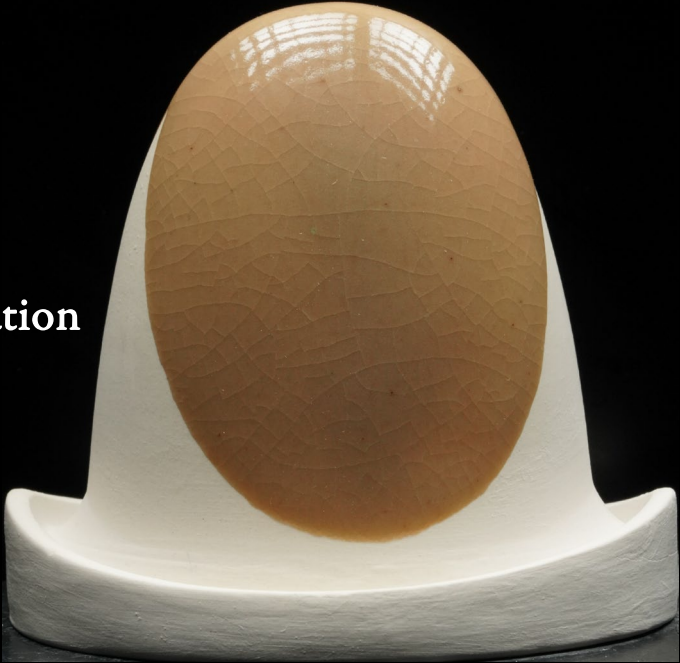
Glassy Eyed

Chemical Match
Dolomite
070422-45

G200 EU	25.55
Dolomite	12.98
EPK	19.83
Flint	26.33
3134	15.30
Chrome Oxide	0.30
Water	90



1-3 Second Dip



2-3 Second Dips

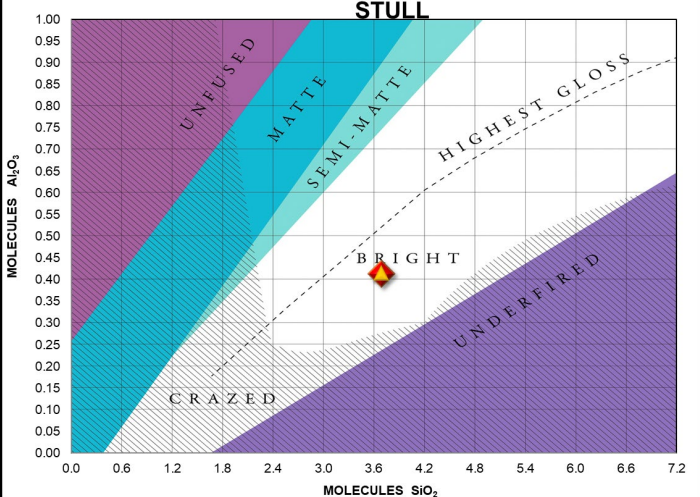


Reduction

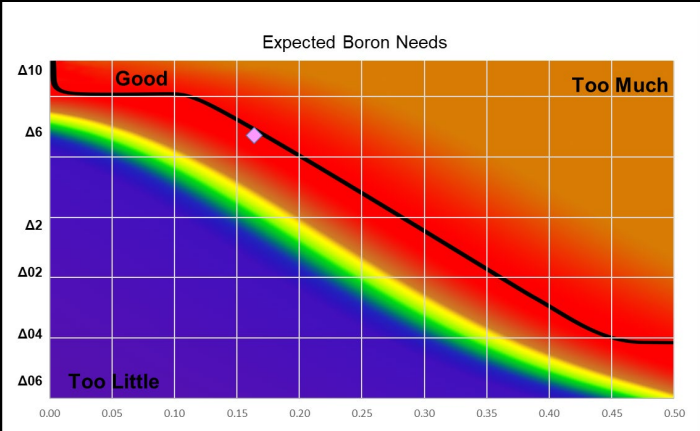


Reduction

UMF		Alkali Metals		Alkaline Earths	
SiO ₂ :Al ₂ O ₃ Ratio		0.24		0.76	
SiO ₂	Collective "Al ₂ O ₃ "	Na ₂ O	K ₂ O	MgO	CaO
3.69	0.42	0.13	0.11	0.26	0.49
B ₂ O ₃	Al ₂ O ₃	Li ₂ O	CuO	SrO	BaO
0.16	0.41				
TiO ₂	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO
0.00					0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



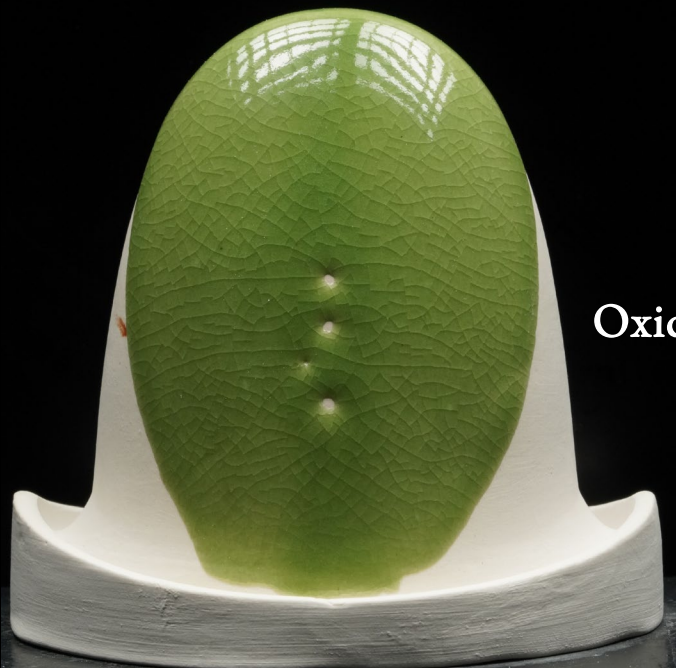
EUMF		Alkali Metals		Alkaline Earths	
SiO ₂ :Al ₂ O ₃ Ratio		0.24		0.76	
SiO ₂	Collective "Al ₂ O ₃ "	Na ₂ O	K ₂ O	MgO	CaO
3.69	0.42	0.13	0.11	0.26	0.49
B ₂ O ₃	Al ₂ O ₃	Li ₂ O	CuO	SrO	BaO
0.16	0.41				
TiO ₂	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO
0.00					0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO
0.01					



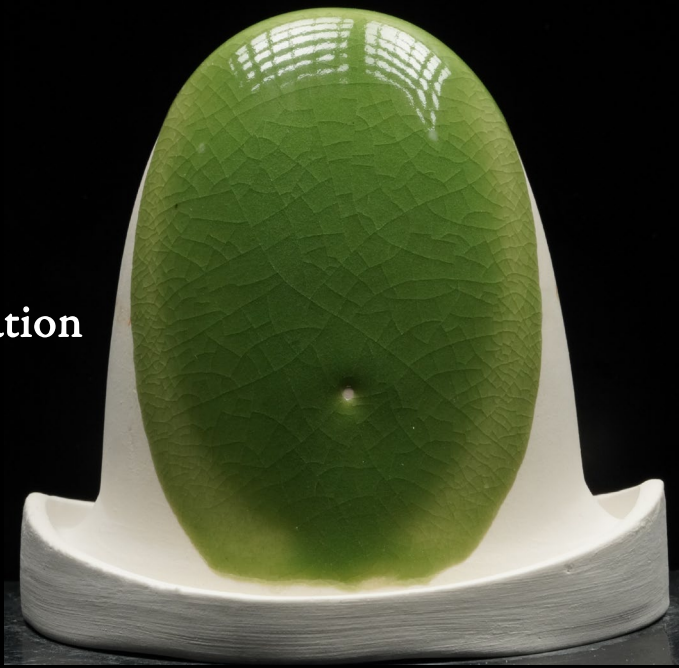
Glassy Eyed

Chemical Match
Wollastonite
070422-46

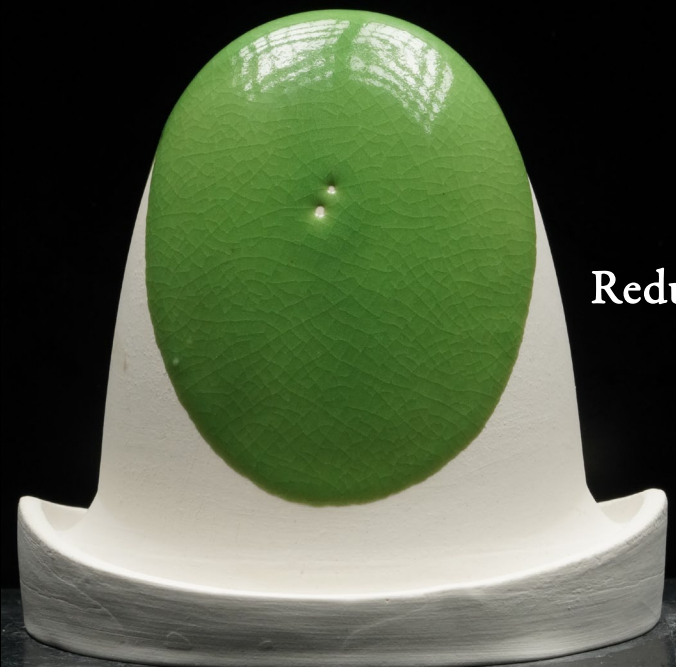
G200 EU	26.71
Wollastonite	18.15
EPK	20.74
Flint	18.40
3134	16.00
Chrome Oxide	0.30
Water	80



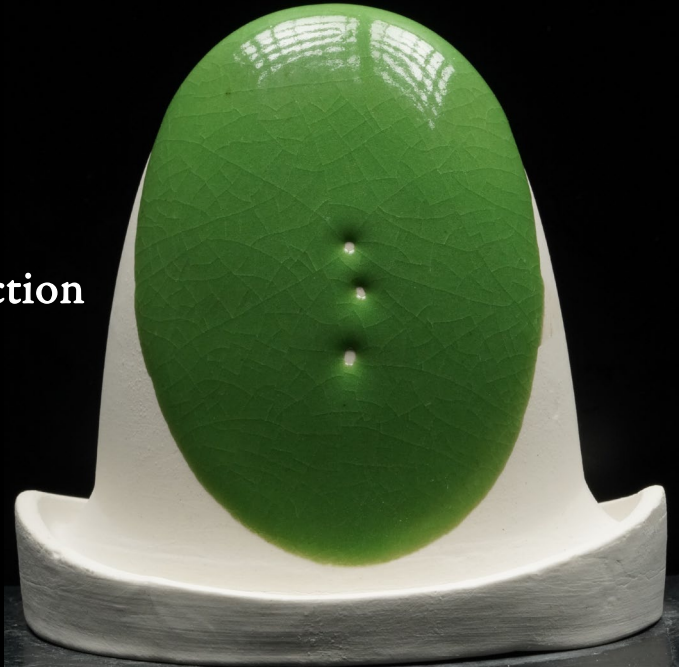
1-3 Second Dip



2-3 Second Dips



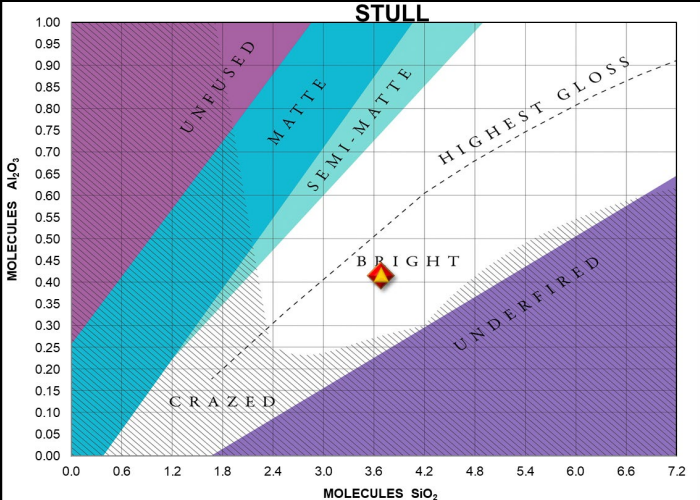
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.80 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.69	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.02	CaO 0.72
B ₂ O ₃ 0.16	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 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.80 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.69	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.02	CaO 0.72
B ₂ O ₃ 0.16	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 0.02
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

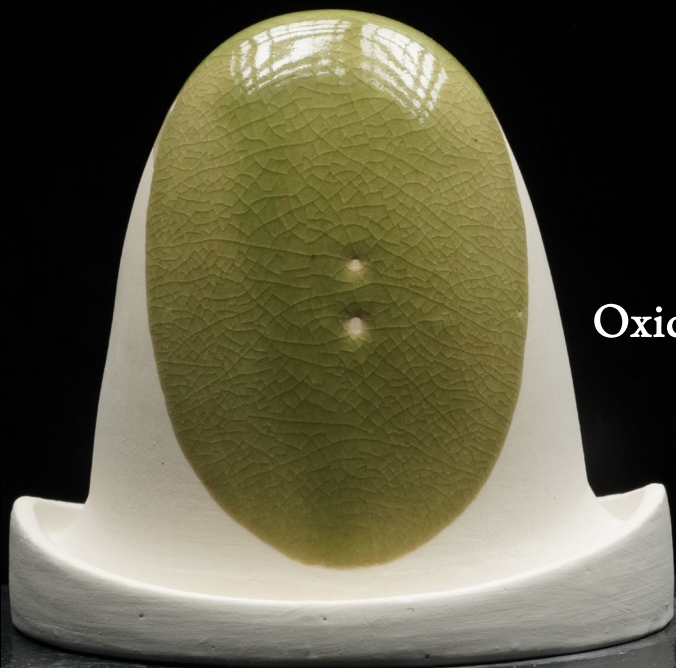


Ceramic
Materials
Workshop

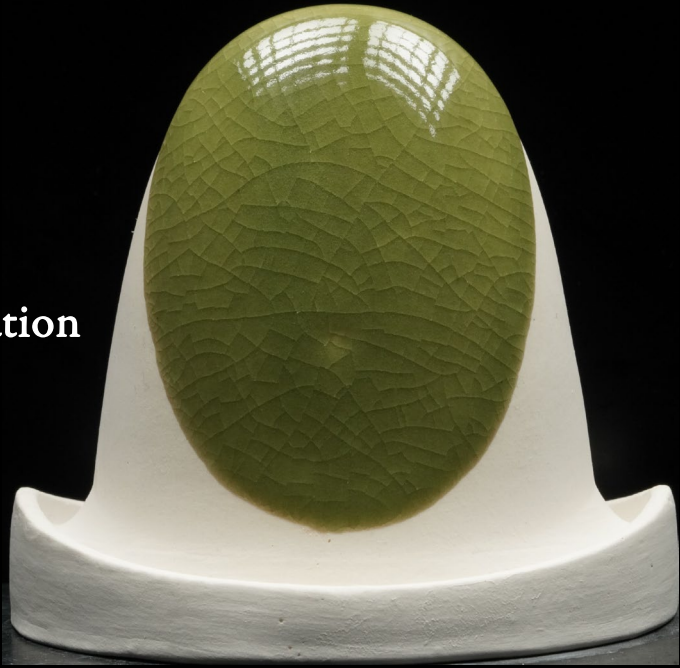
Glassy Eyed

Chemical Match
Whiting
070422-47

G200 EU	25.31
Whiting	13.90
EPK	19.65
Flint	25.98
3134	15.16
Chrome Oxide	0.30
Water	80



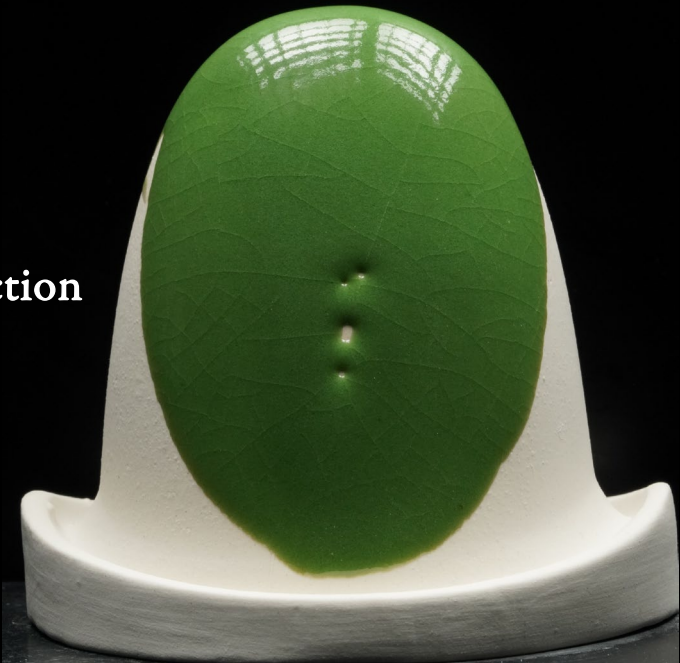
1-3 Second Dip



2-3 Second Dips



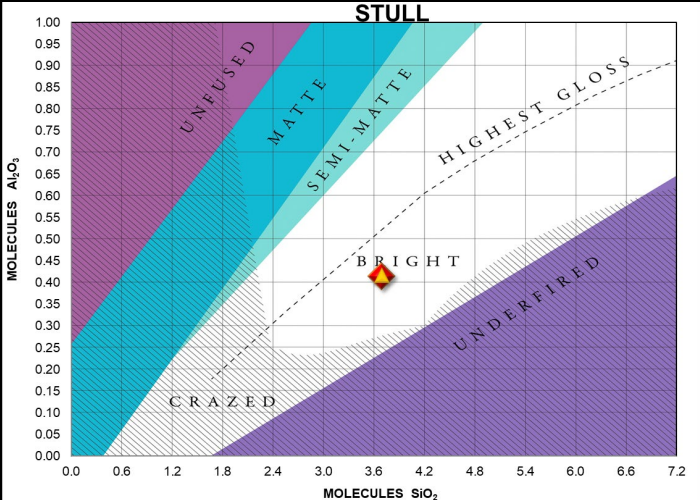
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.84 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.69	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.00	CaO 0.74
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.84 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.69	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.00	CaO 0.74
B ₂ O ₃ 0.16	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 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

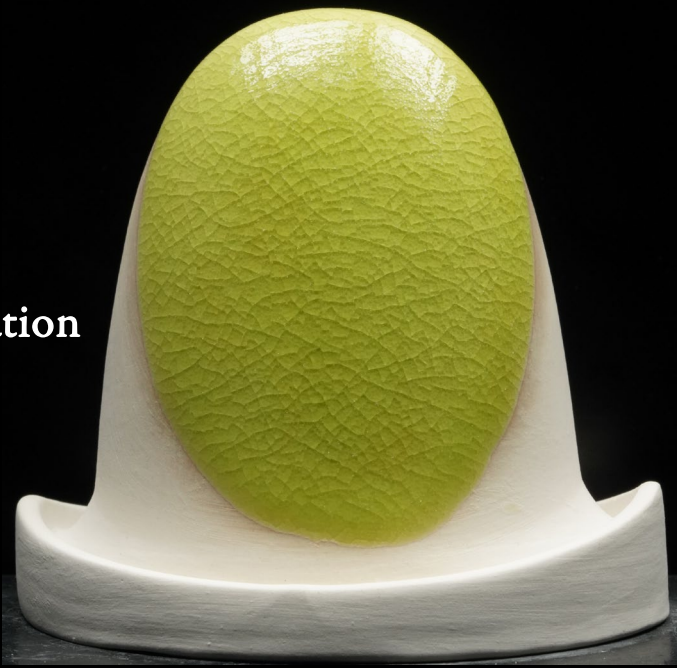
Glassy Eyed

Chemical Match
Barium Carbonate
070422-48

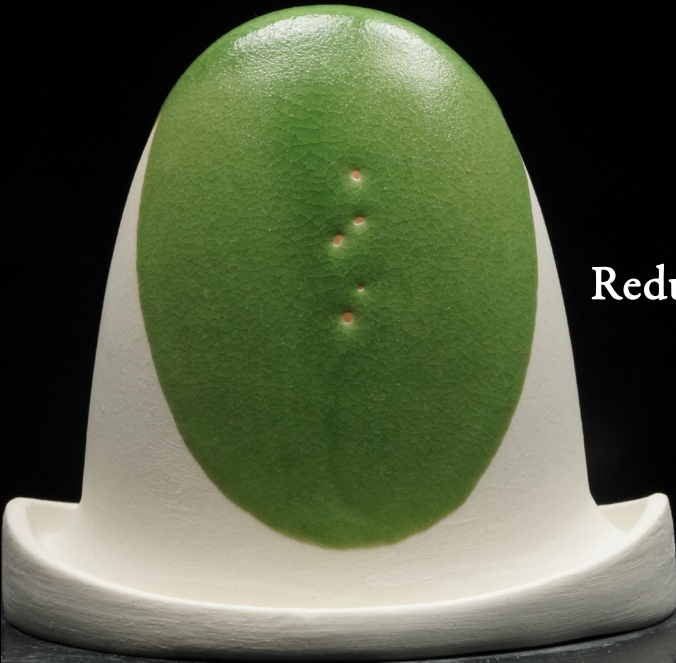
G200 EU	22.25
Barium Carb	24.12
EPK	17.27
Flint	23.03
3134	13.32
Chrome Oxide	0.30
Water	80



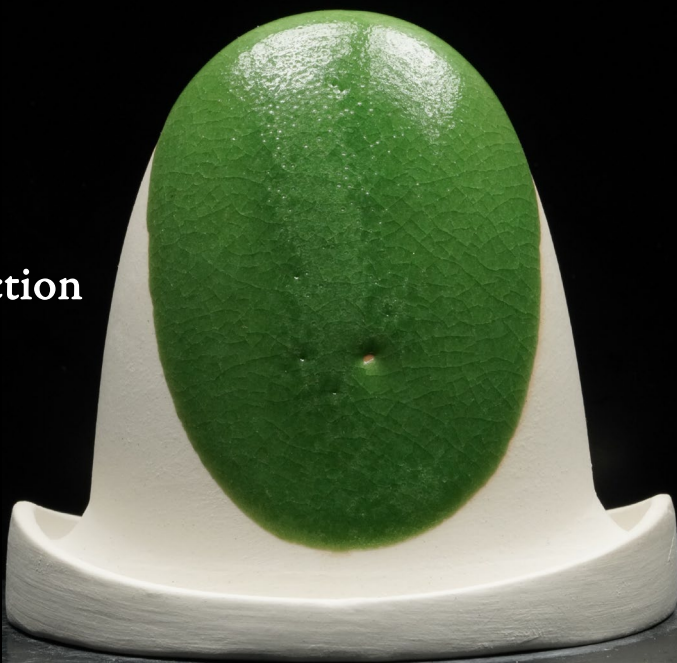
1-3 Second Dip



2-3 Second Dips

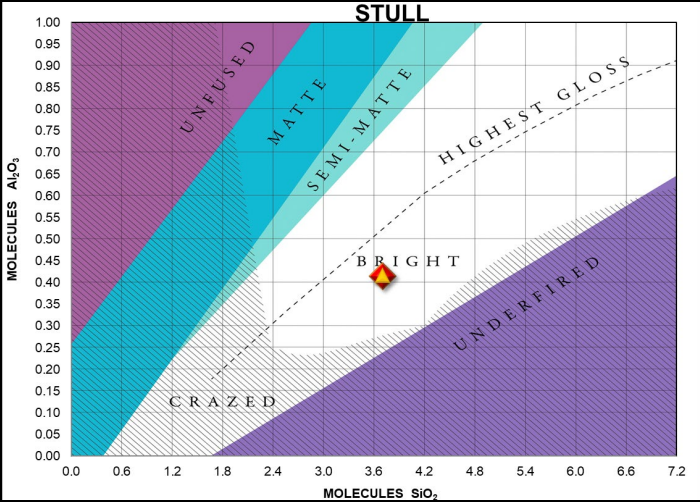


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.87 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.00	CaO 0.23
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO	BaO 0.52
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 8.87 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.00	CaO 0.23
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO	BaO 0.52
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Glassy Eyed

Chemical Match
Zinc Oxide
070422-49

G200 EU	25.96
Zinc Oxide	11.63
EPK	20.15
Flint	26.70
3134	15.55
Chrome Oxide	0.30
Water	80



1-3 Second Dip



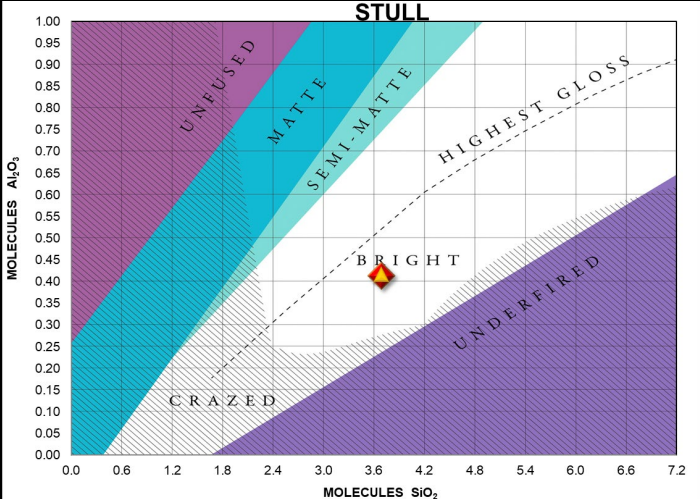
2-3 Second Dips



Reduction

UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.85 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.69	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.00	CaO 0.23
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.52	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.85 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.69	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.00	CaO 0.23
B ₂ O ₃ 0.16	Al ₂ O ₃ 0.41	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.52	FeO 0.01
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

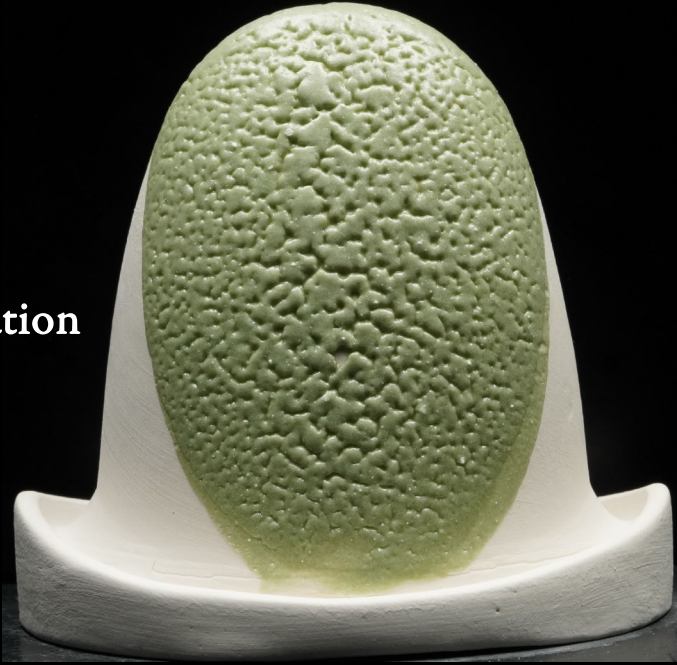
Glassy Eyed

Chemical Match
Bone Ash
070422-50

G200 EU	23.86
Bone Ash	18.53
EPK	18.53
Flint	24.79
3134	14.29
Chrome Oxide	0.30
Water	95



1-3 Second Dip



2-3 Second Dips

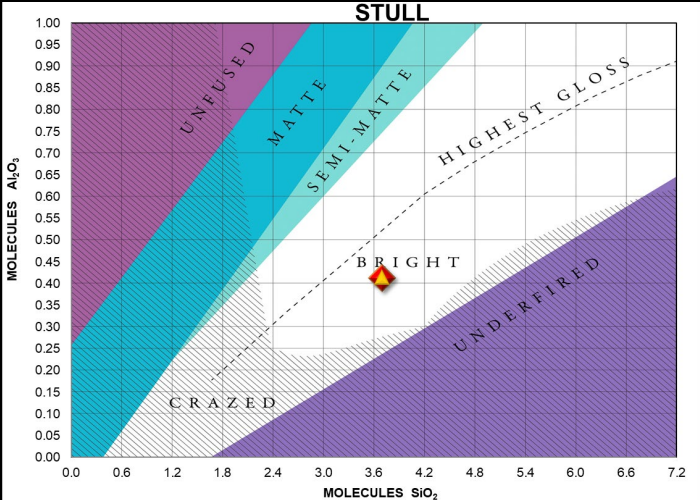


Reduction



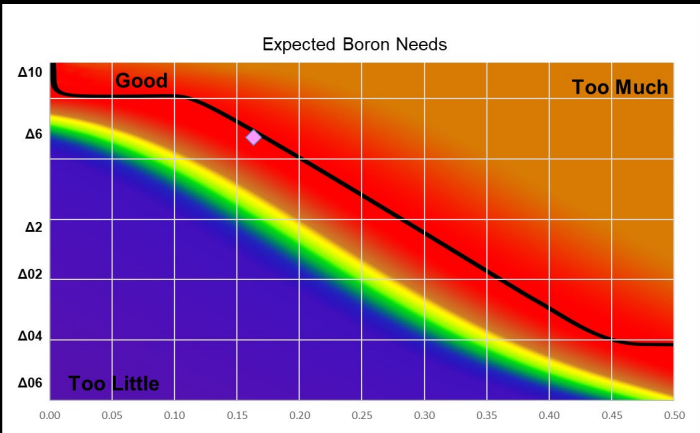
UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.89 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.01	CaO 0.74
B ₂ O ₃ 0.16	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 0.28		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.89 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 3.70	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.13	K ₂ O 0.11	MgO 0.01	CaO 0.74
B ₂ O ₃ 0.16	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 0.01	ZrO ₂	P ₂ O ₅ 0.28		MnO ₂	CoO



Ceramic
Materials
Workshop