Glassy Eyed-Δ6

Lab 3-Sili-Closeness

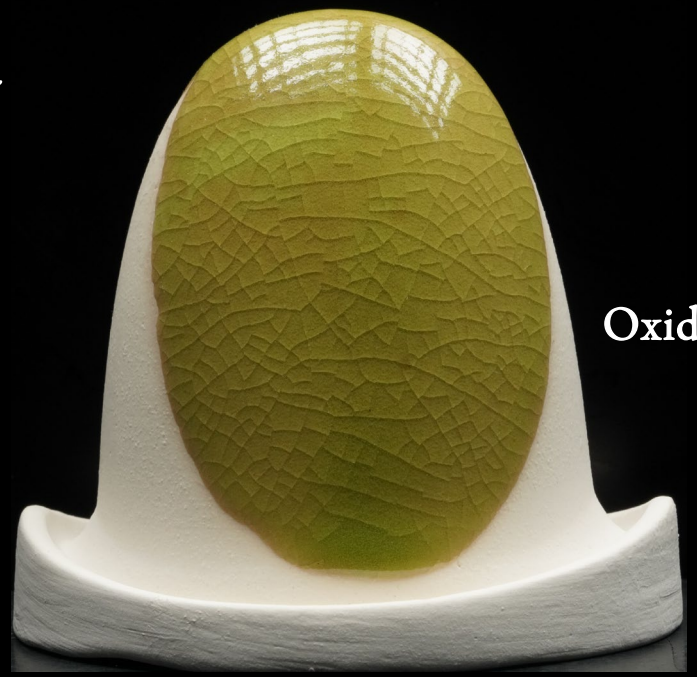
Ceramic
Materials
Workshop

Glassy Eyed

Original

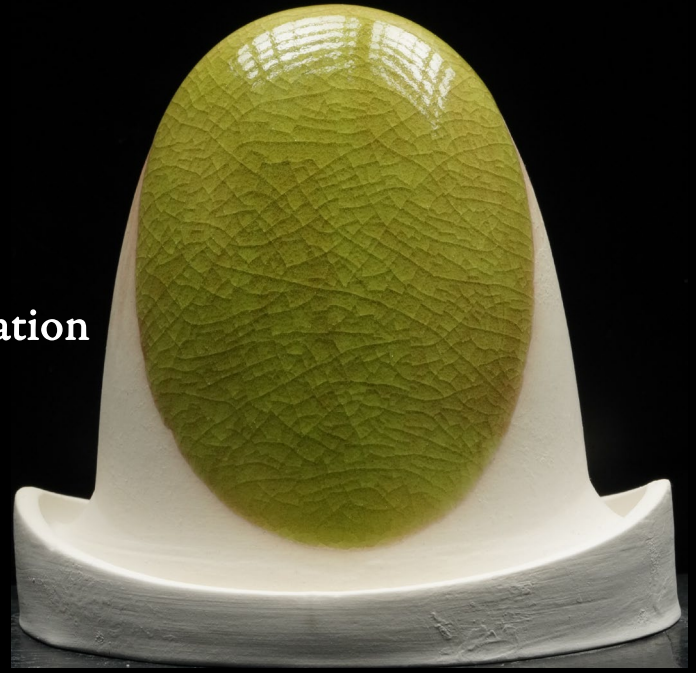
070422-1

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

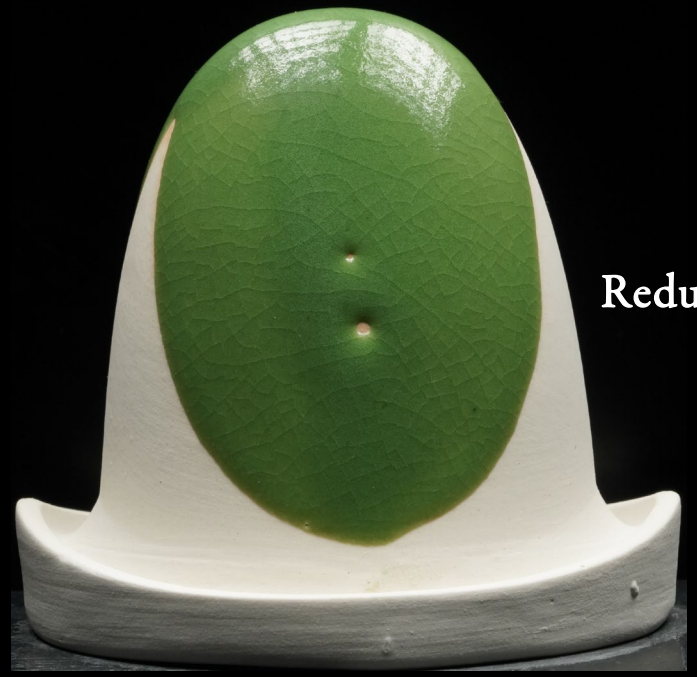


1-3 Second Dip

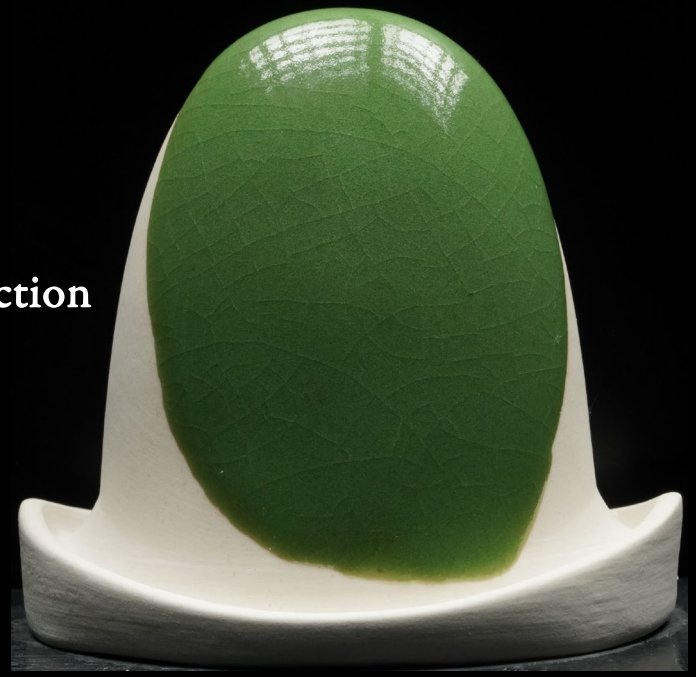
Oxidation



2-3 Second Dips



Reduction



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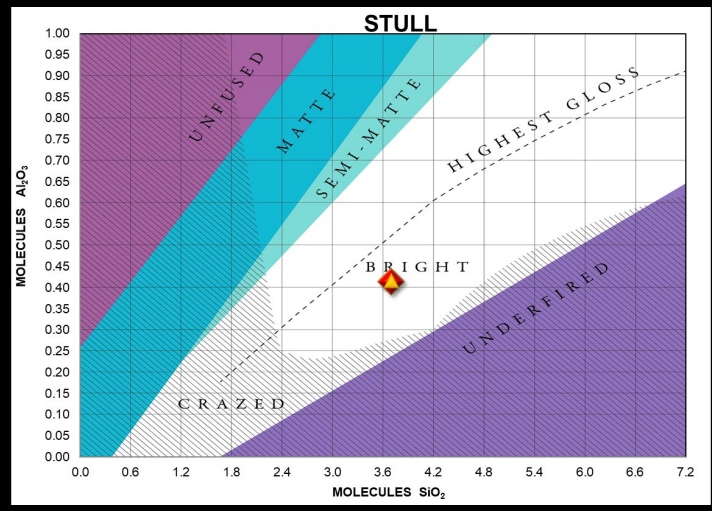
Ceramic Materials Workshop

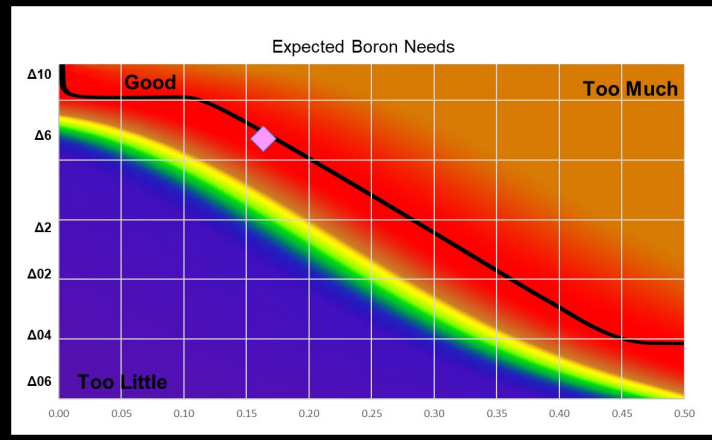
UMF

SiO_2:Al_2O_3 Ratio 8.87 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.70	Collective "Al_2O_3" 0.42	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO

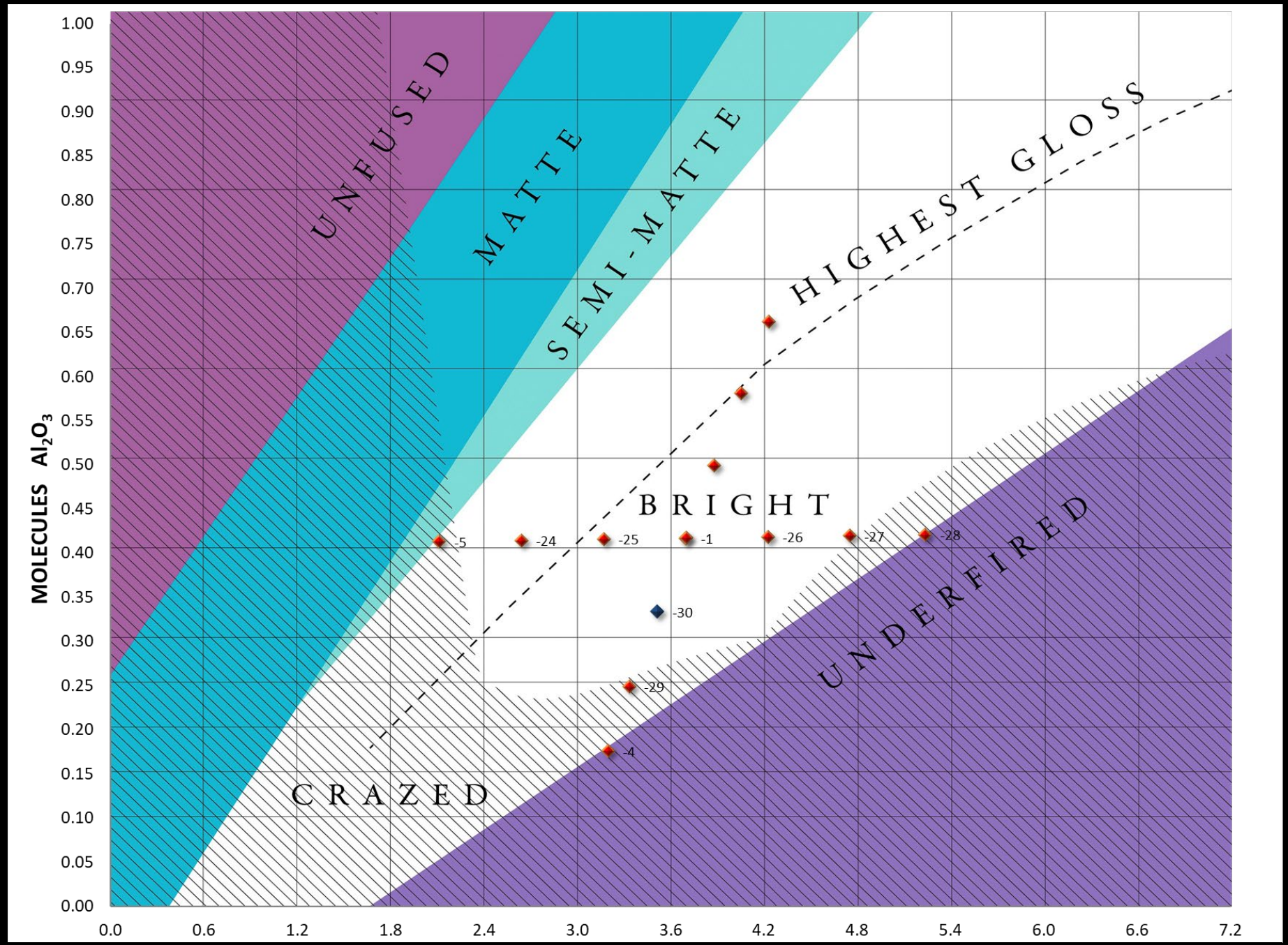


EUMF

SiO_2:Al_2O_3 Ratio 8.87 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.70	Collective "Al_2O_3" 0.42	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



UMF



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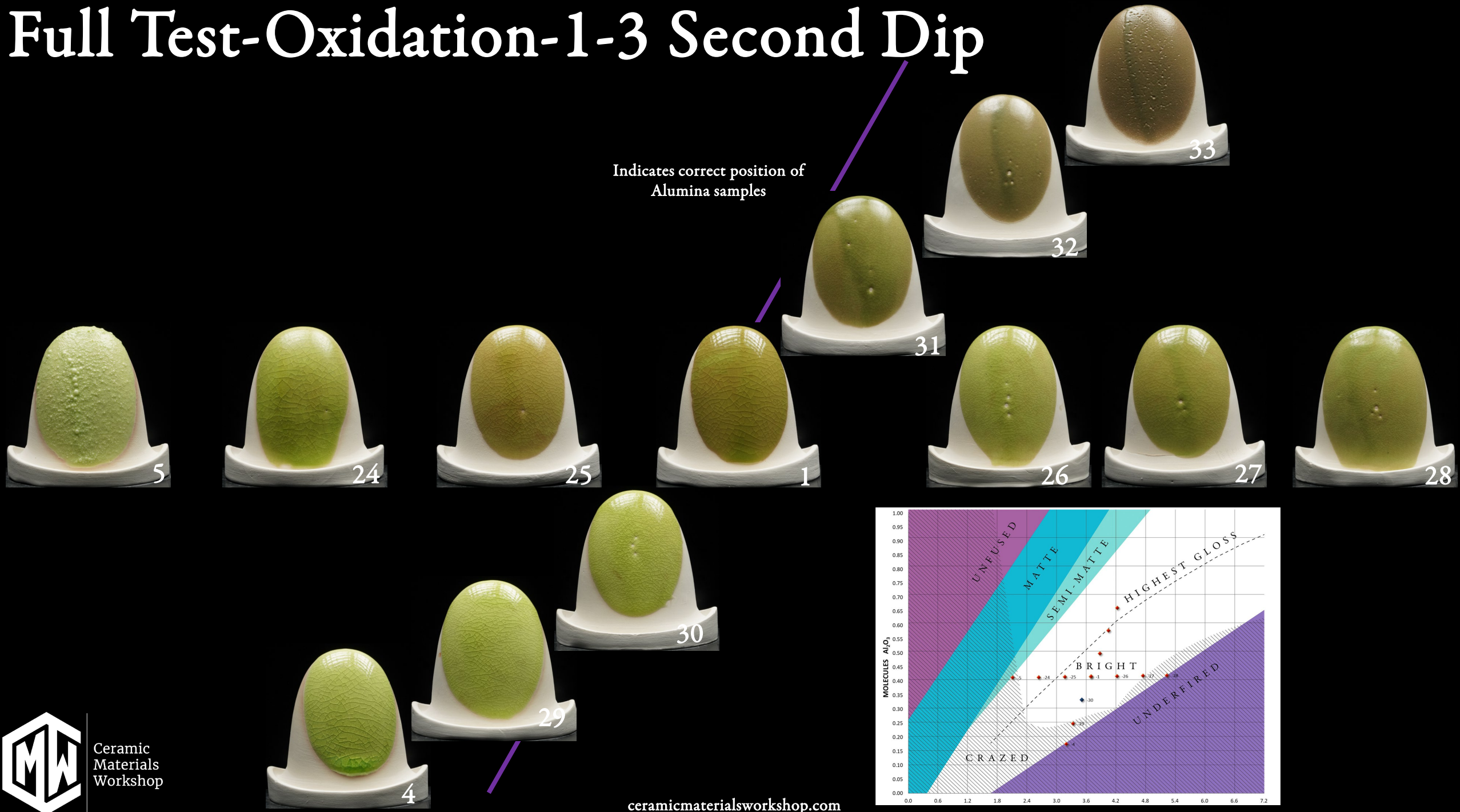
Full Test-Oxidation-1-3 Second Dip

Indicates correct position of Alumina samples



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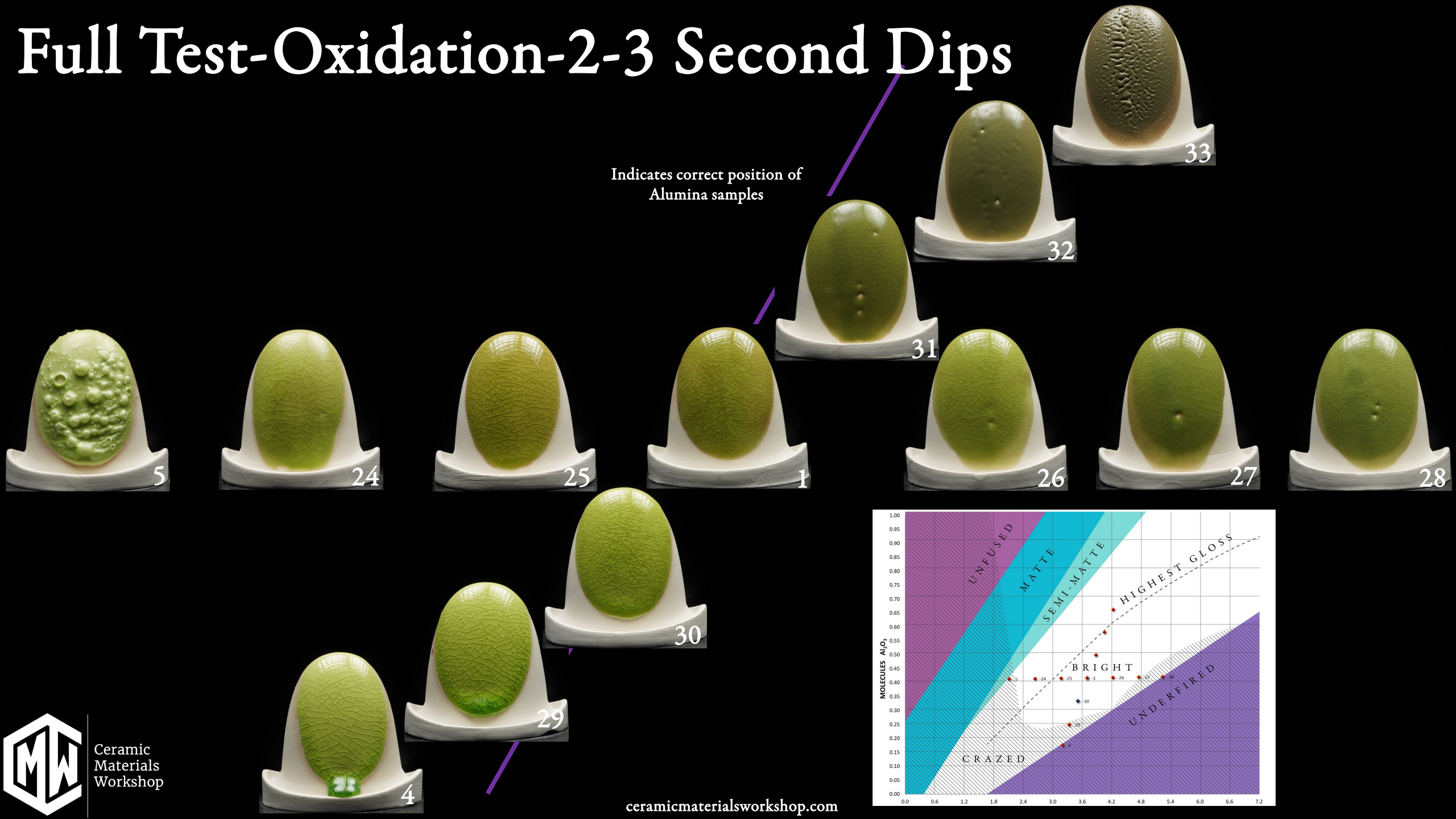
Full Test-Oxidation-2-3 Second Dips

Indicates correct position of Alumina samples



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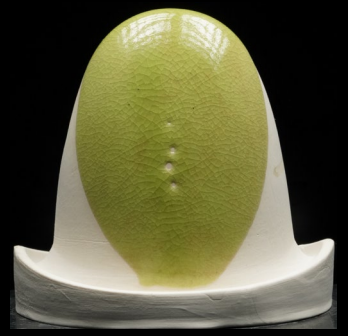
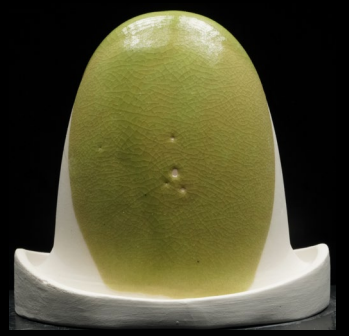
Silica Variations-Oxidation

1-3 Second Dip









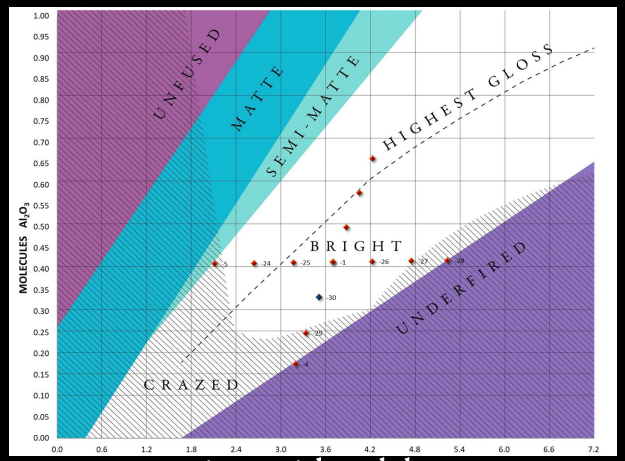
070422-5 | 070422-24 | 070422-25 | 070422-1 | 070422-26 | 070422-27 | 070422-28

2-3 Second Dips









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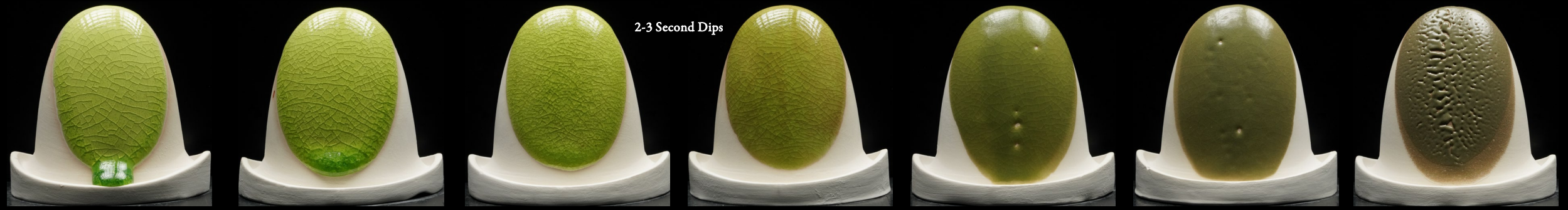
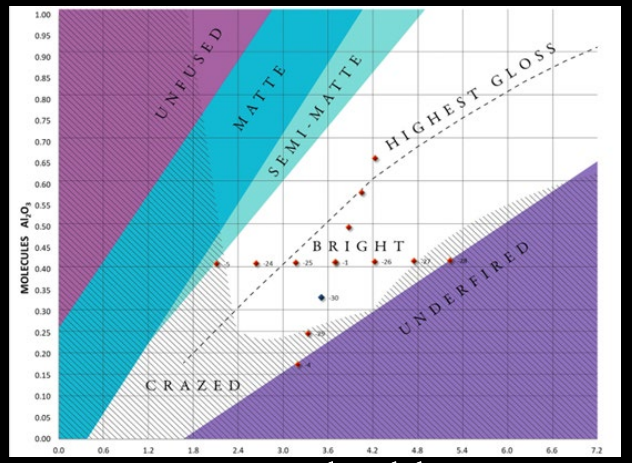
Alumina Variations-Oxidation

1-3 Second Dip

070422-4 | 070422-29 | 070422-30 | 070422-1 | 070422-31 | 070422-32 | 070422-33

2-3 Second Dips





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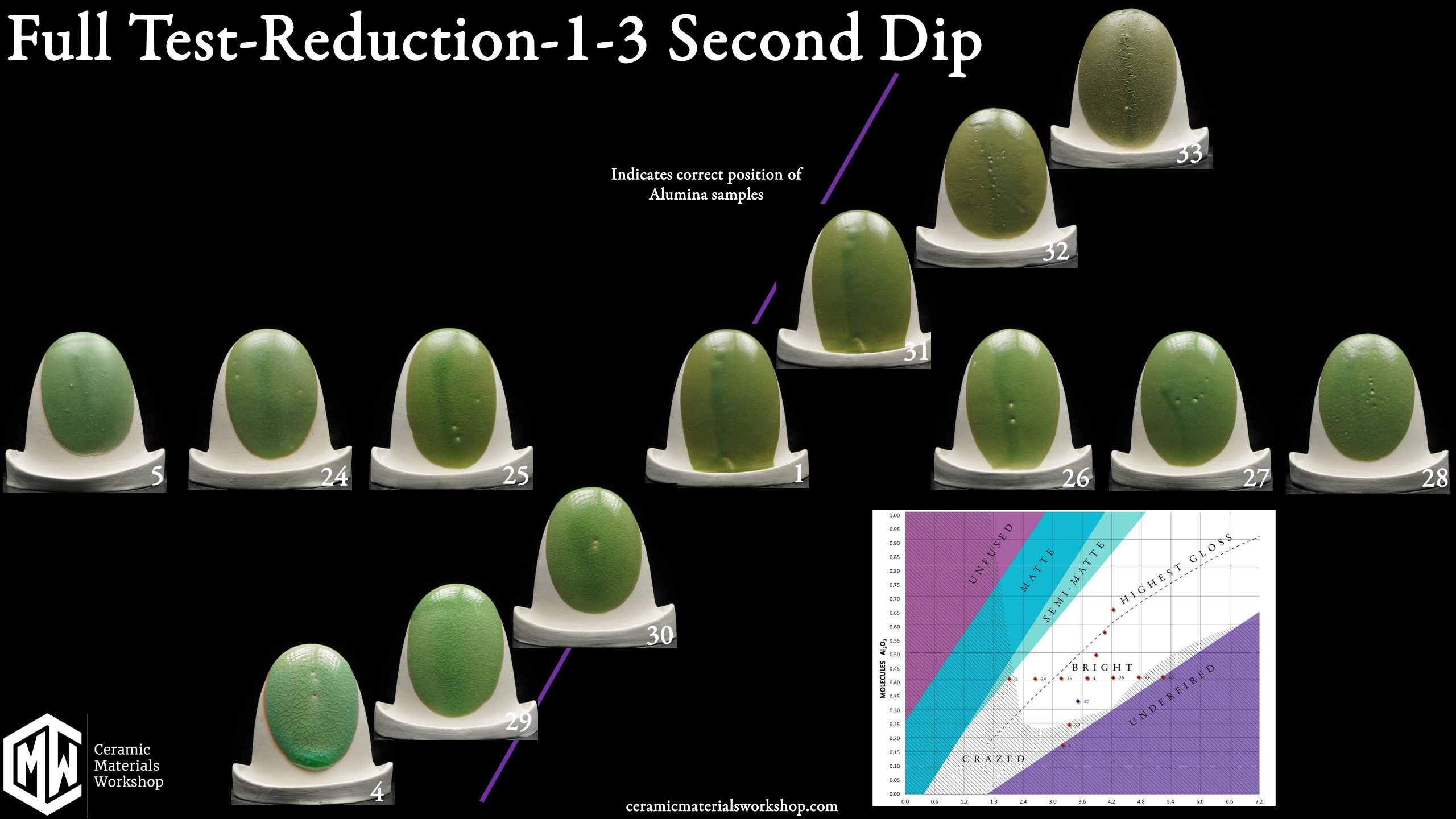
Full Test-Reduction-1-3 Second Dip

Indicates correct position of Alumina samples



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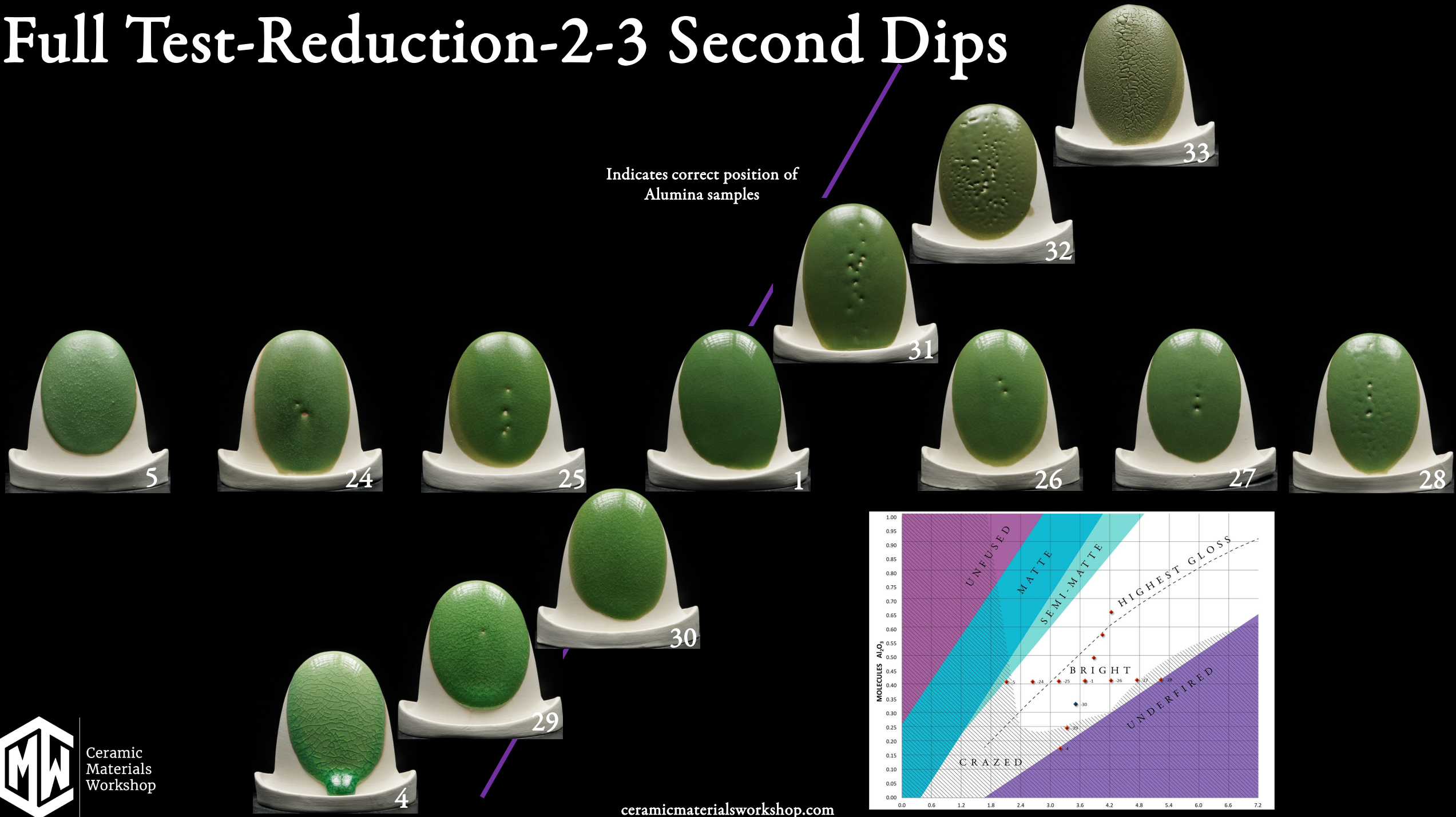
Full Test-Reduction-2-3 Second Dips

Indicates correct position of Alumina samples



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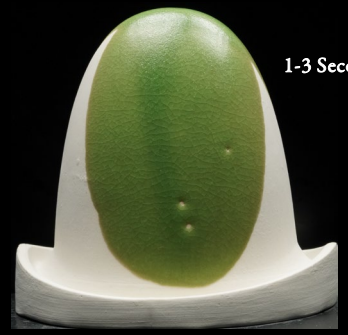
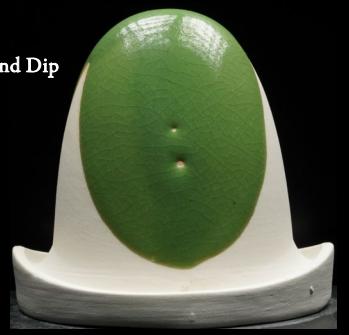
Silica Variations-Reduction

1-3 Second Dip


070422-5


070422-24


070422-25

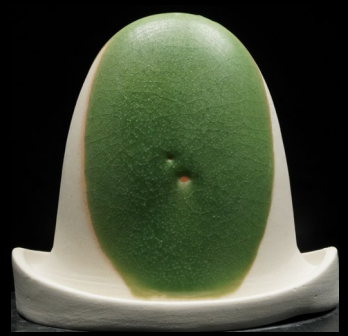

070422-1

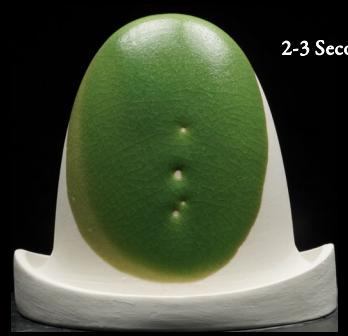

070422-26

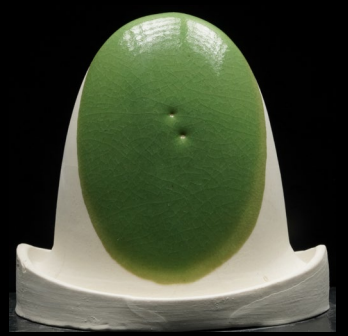

070422-27

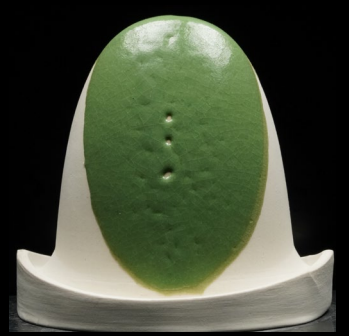

070422-28

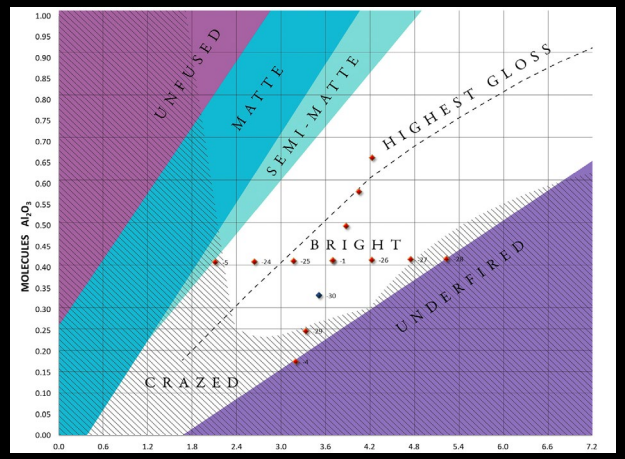
2-3 Second Dips











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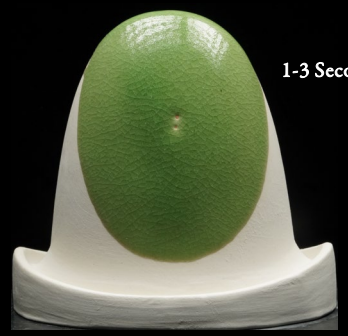
Alumina Variations-Reduction

1-3 Second Dip


070422-4


070422-29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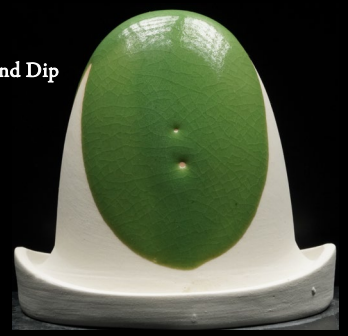
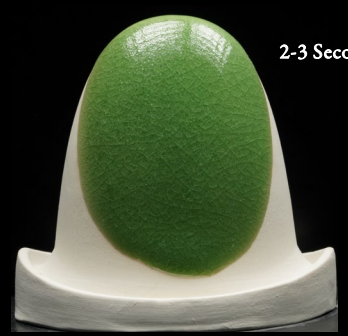

070422-1

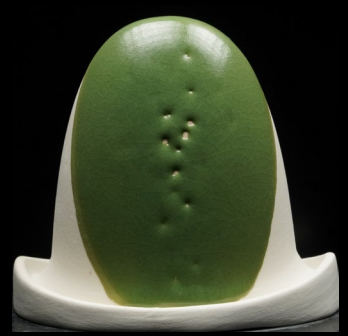

070422-31

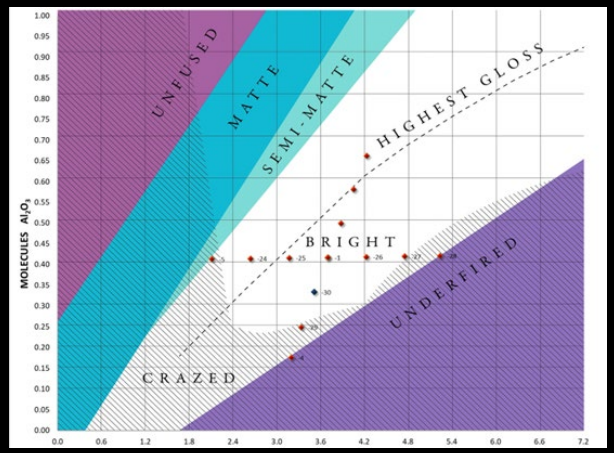

070422-32


070422-33

2-3 Second Dips







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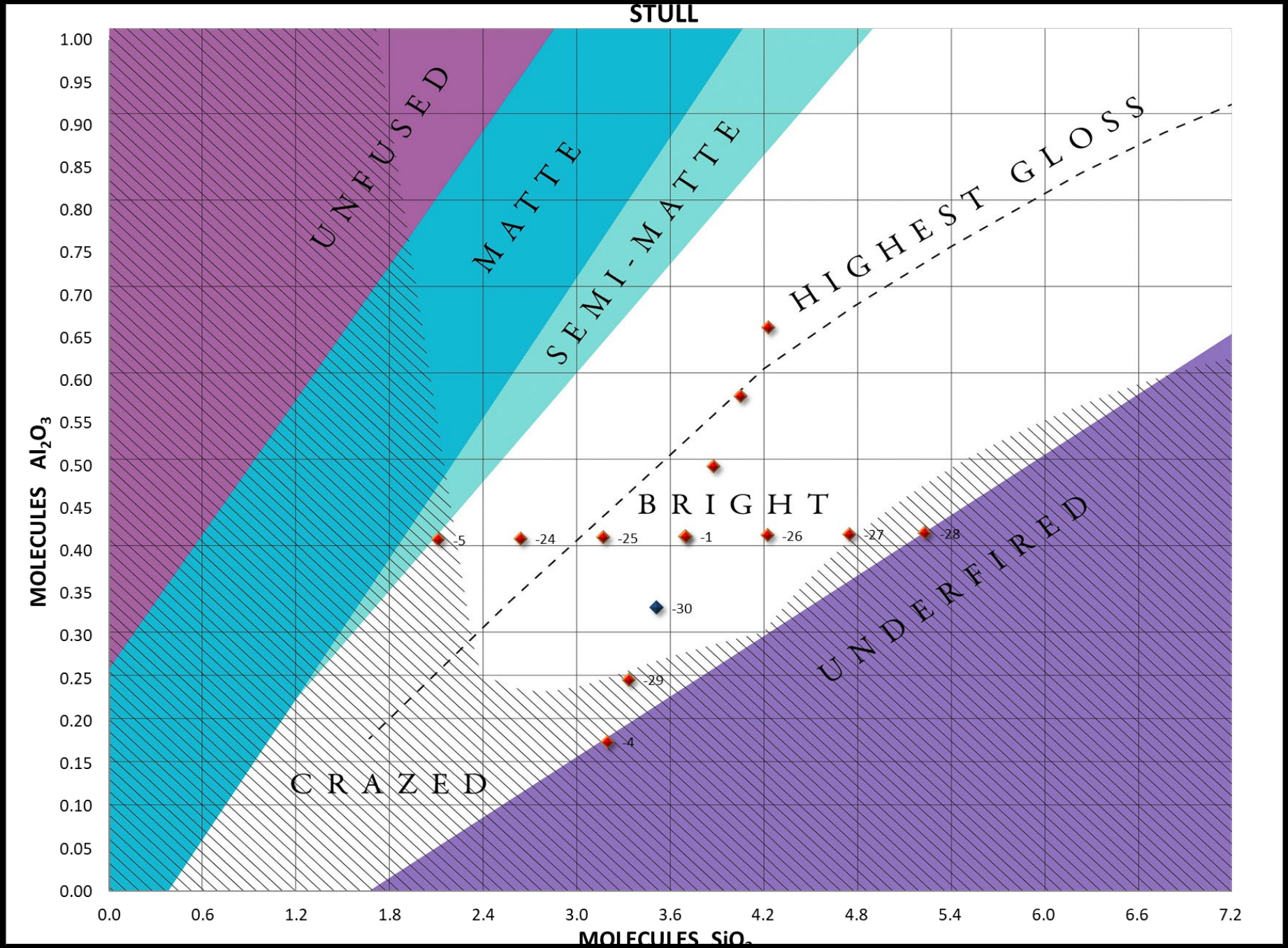
EUMF



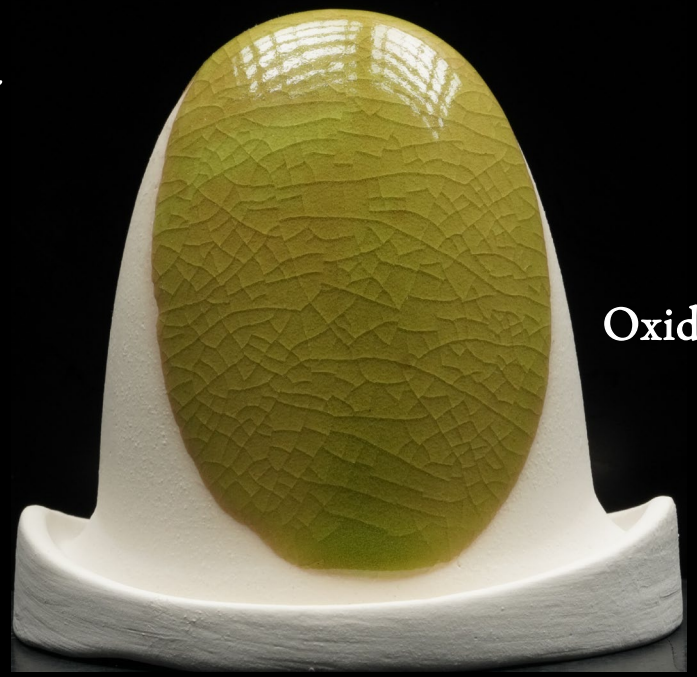
Ceramic Materials Workshop

Glassy Eyed

Original

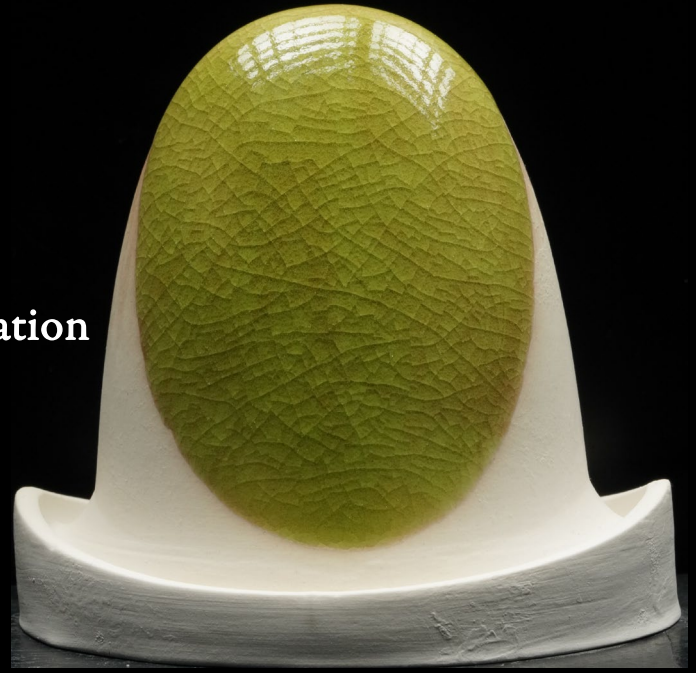
070422-1

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

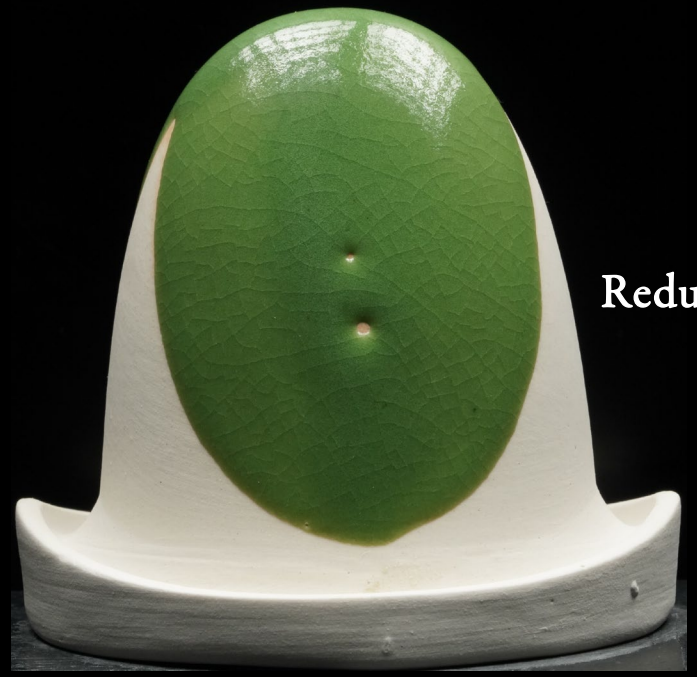


1-3 Second Dip

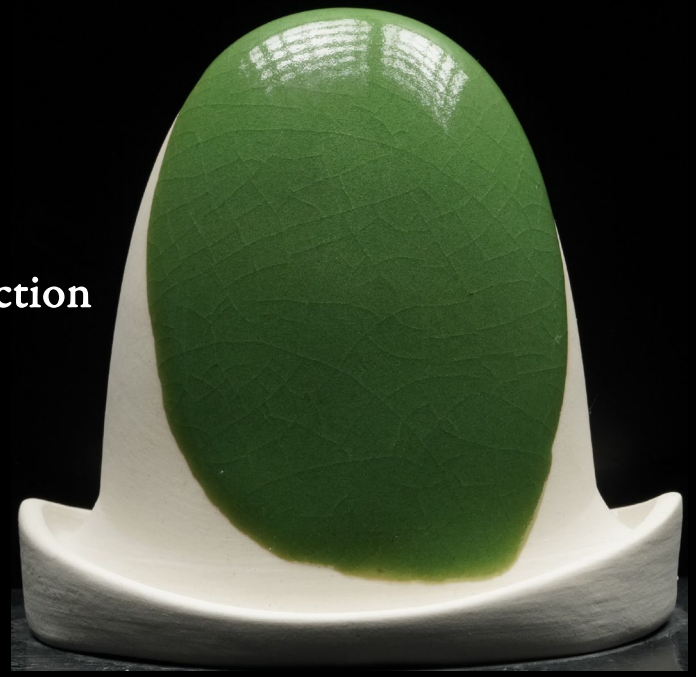
Oxidation



2-3 Second Dips



Reduction



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UMF

SiO_2:Al_2O_3 Ratio 8.87 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
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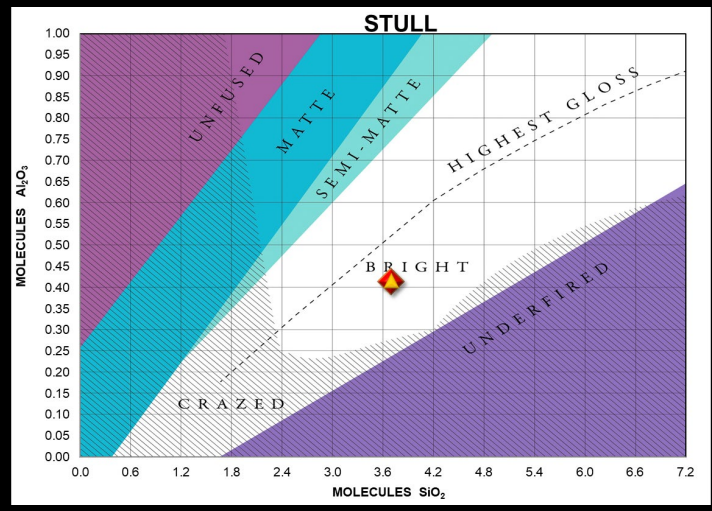
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 8.87 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
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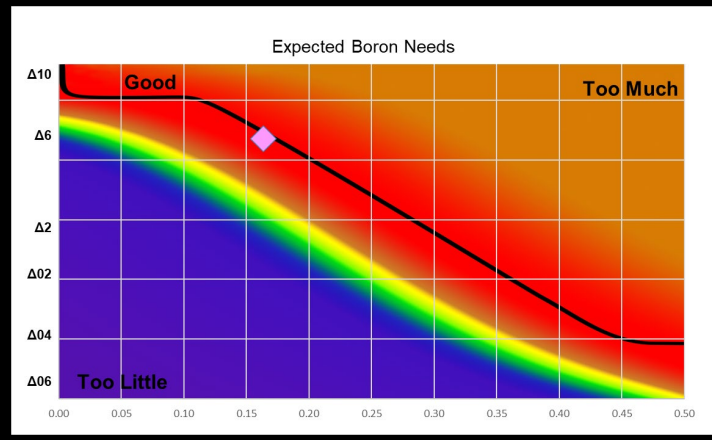
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



Glassy Eyed

w/o Kaolin

070422-4

G200 EU	28.44
Strontium Carb	23.12
EPK	
Flint	29.43
3134	17.03
Bentonite	1.98
Chrome Oxide	0.30
Water	65

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction

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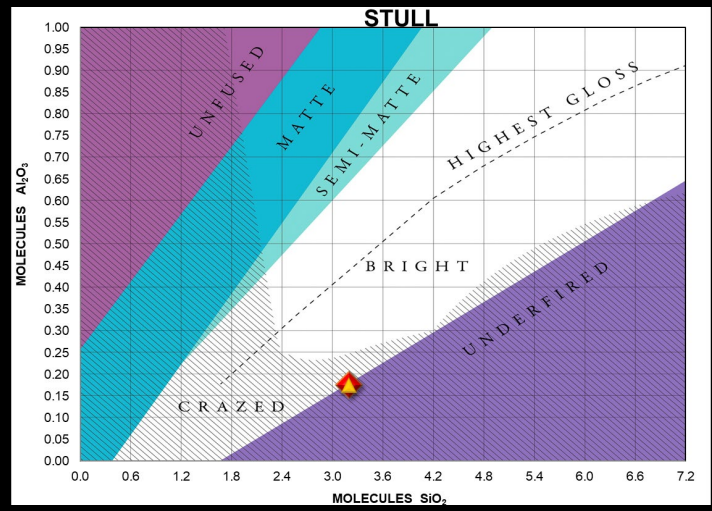
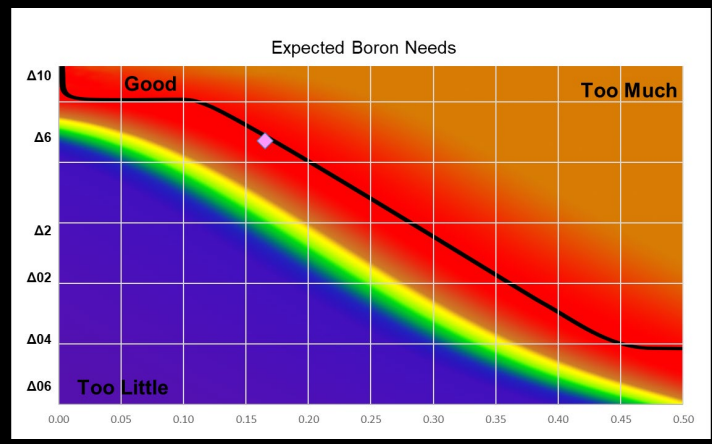
UMF

SiO_2:Al_2O_3 Ratio 18.21 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.20	Collective "Al_2O_3" 0.18	Na_2O 0.13	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.17	Al_2O_3 0.17	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.00
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 18.21 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.20	Collective "Al_2O_3" 0.18	Na_2O 0.13	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.17	Al_2O_3 0.17	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.00
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



Glassy Eyed

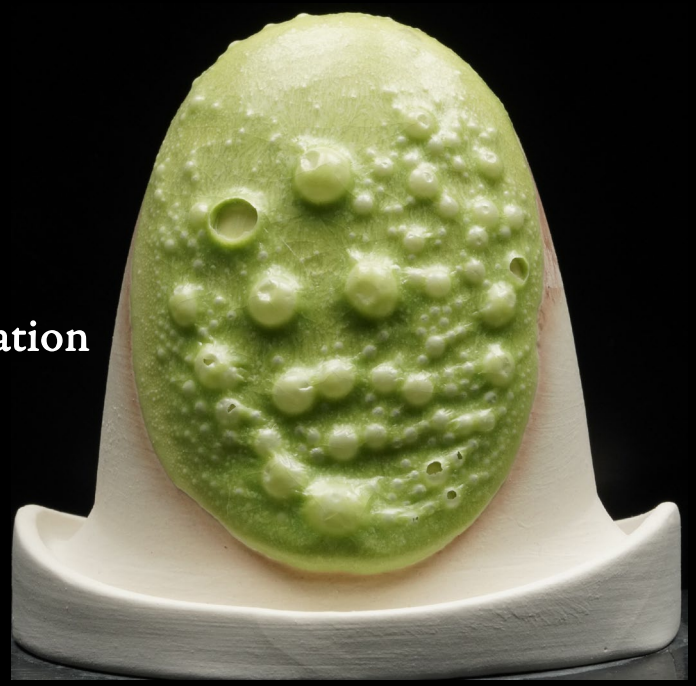
w/o Silica

070422-5

G200 EU	31.36
Strontium Carb	25.50
EPK	24.35
Flint	
3134	18.78
Chrome Oxide	0.30
Water	60

1-3 Second Dip

Oxidation



2-3 Second Dips

Reduction

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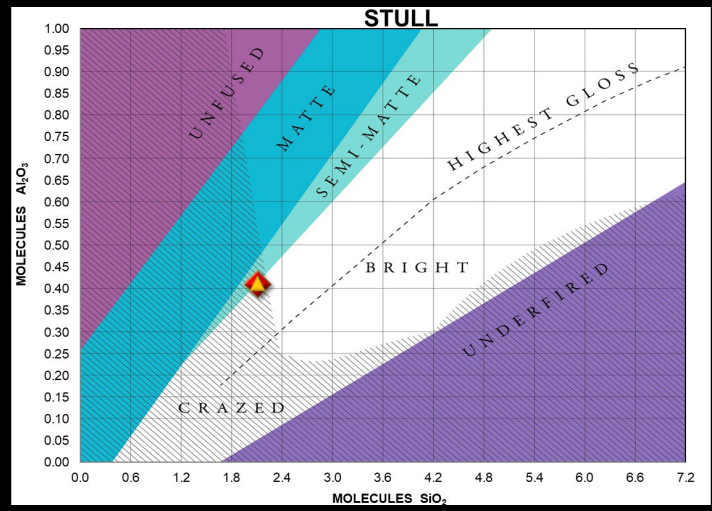
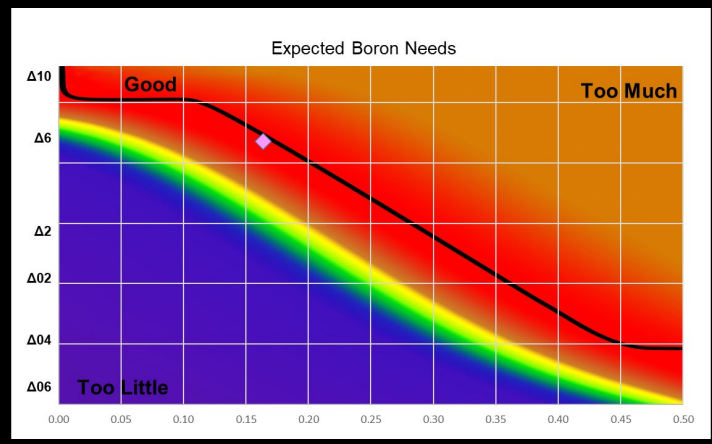
UMF

SiO_2:Al_2O_3 Ratio 5.12 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 2.11	Collective "Al_2O_3" 0.41	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 5.12 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 2.11	Collective "Al_2O_3" 0.41	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



Glassy Eyed

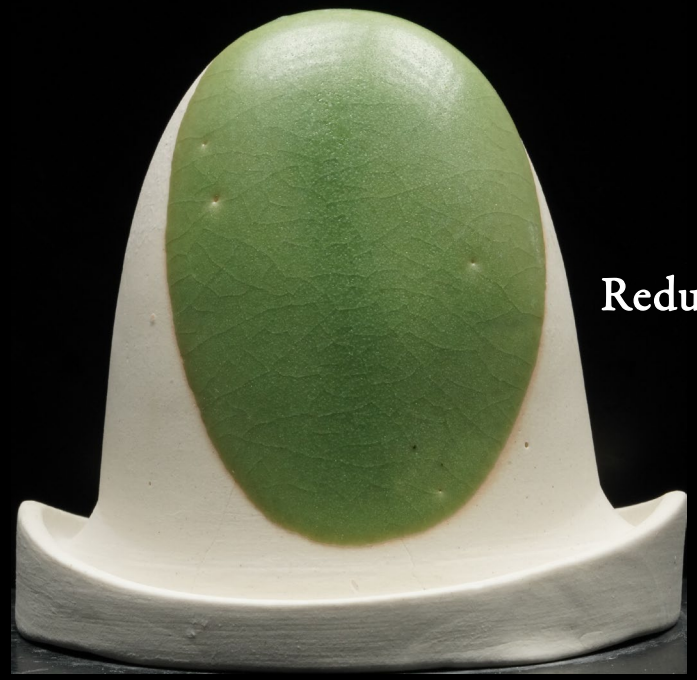
Mapping
Silica 2
070422-24

G200 EU	28.30
Strontium Carb	23.01
EPK	21.97
Flint	9.76
3134	16.95
Chrome Oxide	0.30
Water	80

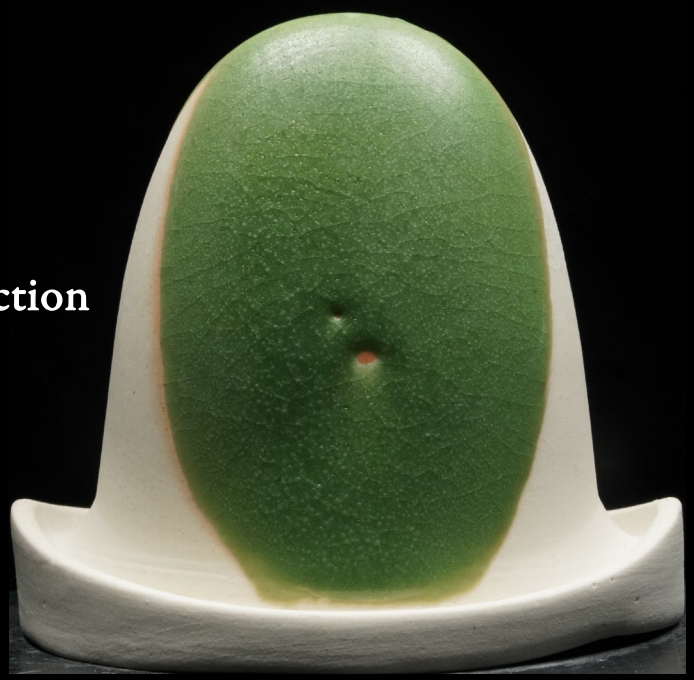
1-3 Second Dip

Oxidation

2-3 Second Dips



Reduction



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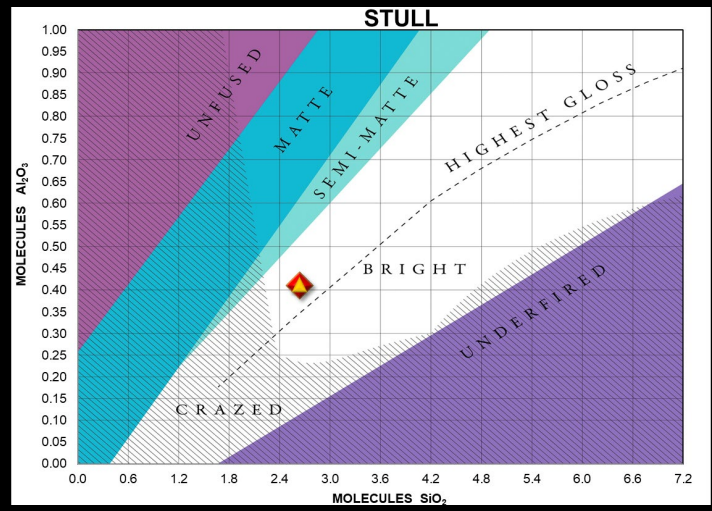
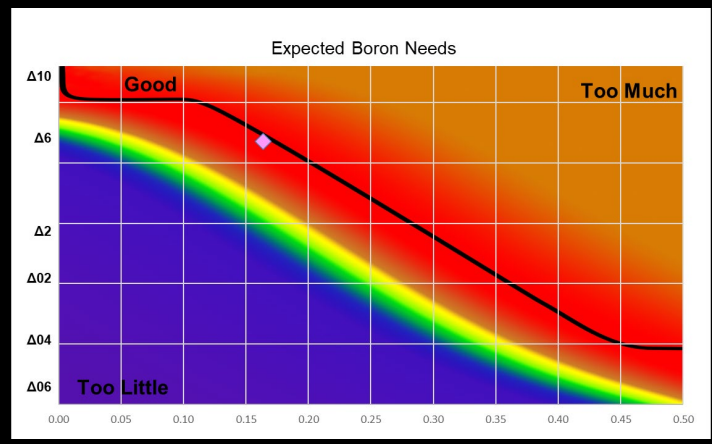
UMF

SiO_2:Al_2O_3 Ratio 6.38 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 2.64	Collective "Al_2O_3" 0.41	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 6.38 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 2.64	Collective "Al_2O_3" 0.41	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



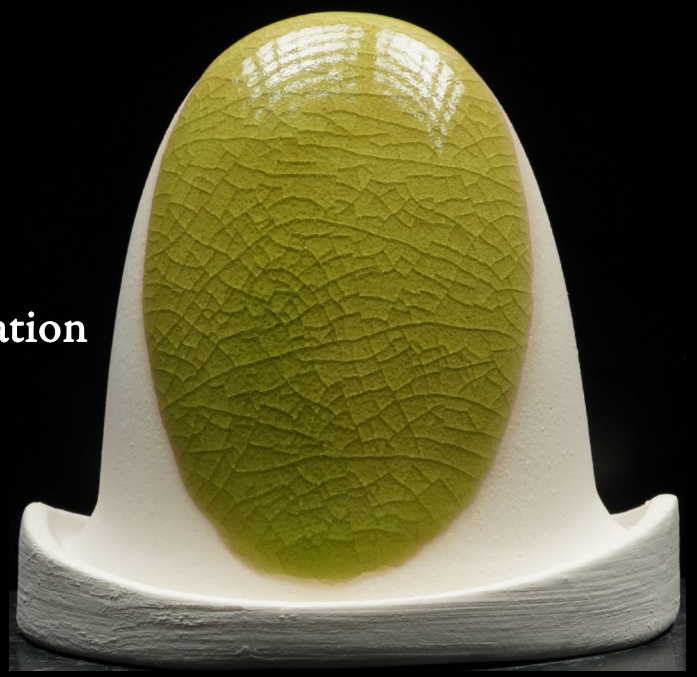
Glassy Eyed

Mapping
Silica 3
070422-25

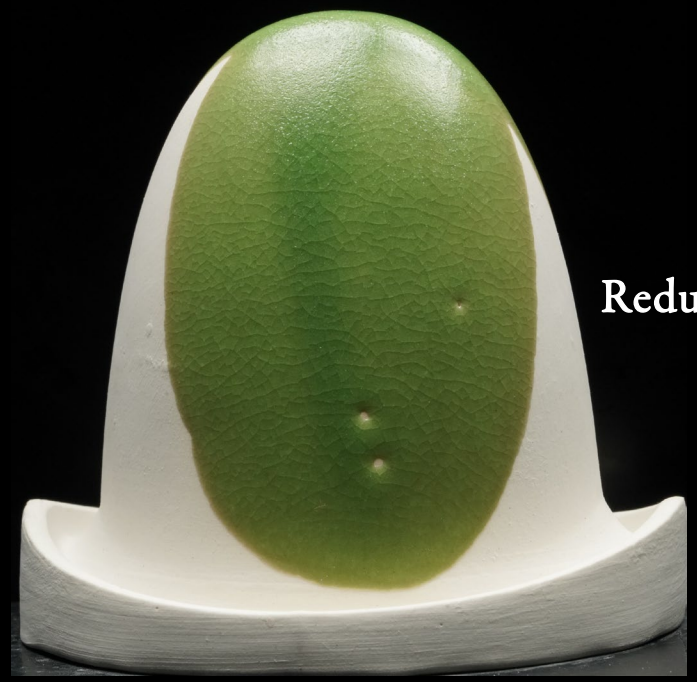
G200 EU	25.79
Strontium Carb	20.97
EPK	20.02
Flint	17.79
3134	15.44
Chrome Oxide	0.31
Water	60

1-3 Second Dip

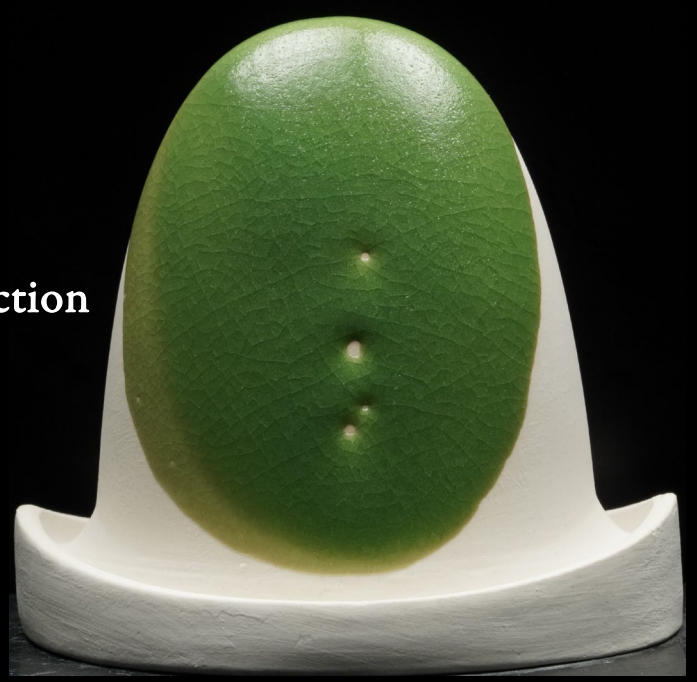
Oxidation



2-3 Second Dips



Reduction



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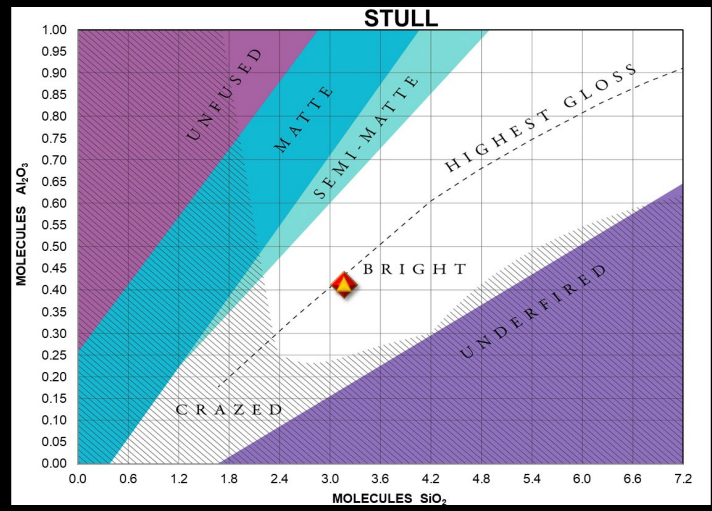
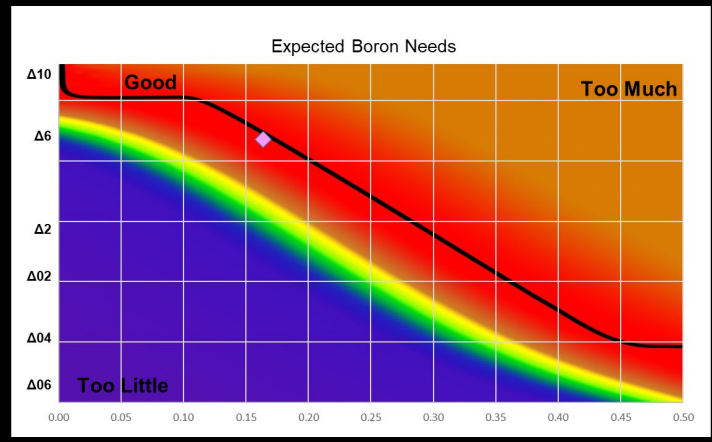
UMF

SiO_2:Al_2O_3 Ratio 7.63 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.17	Collective "Al_2O_3" 0.42	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 7.63 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.17	Collective "Al_2O_3" 0.42	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



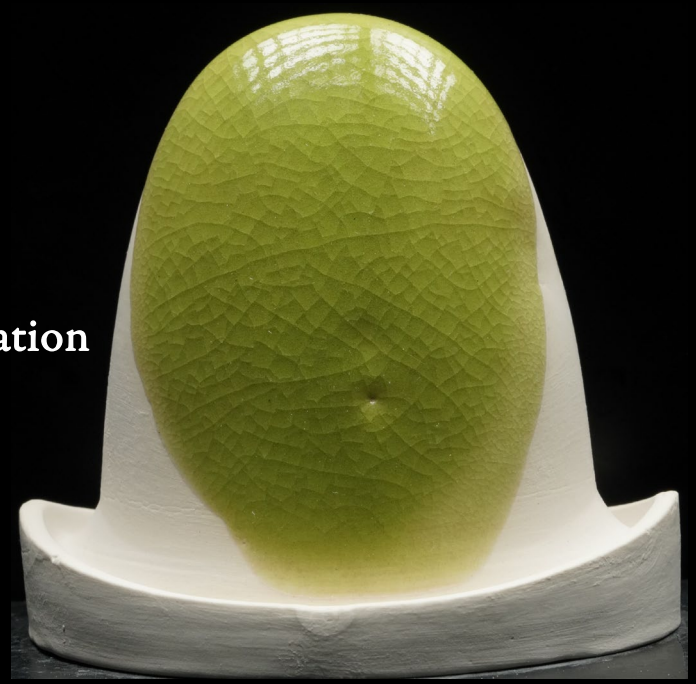
Glassy Eyed

Mapping
Silica 5
070422-26

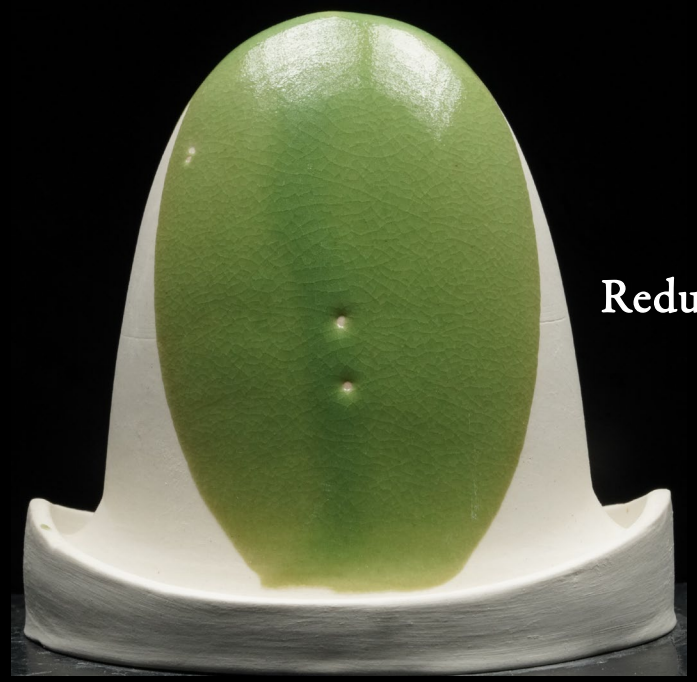
G200 EU	21.89
Strontium Carb	17.80
EPK	17.00
Flint	30.21
3134	13.11
Chrome Oxide	0.31
Water	80

1-3 Second Dip

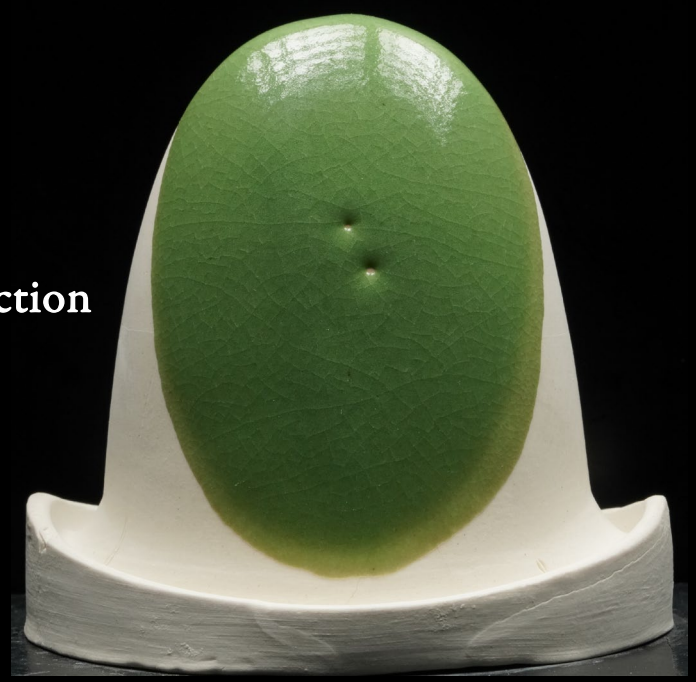
Oxidation



2-3 Second Dips



Reduction



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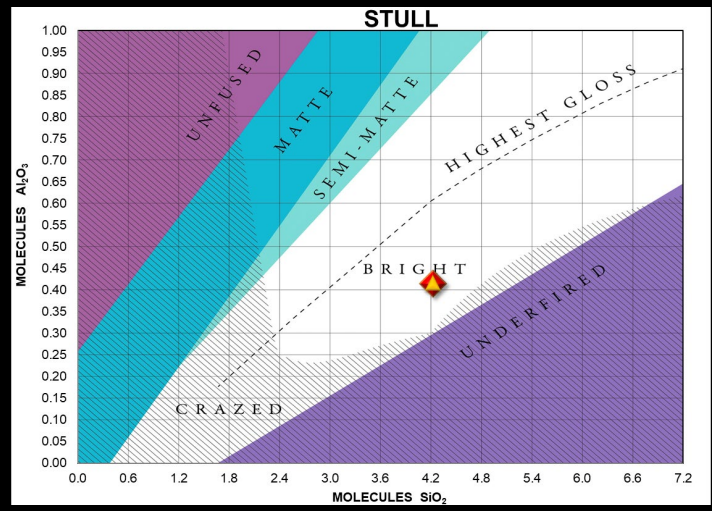
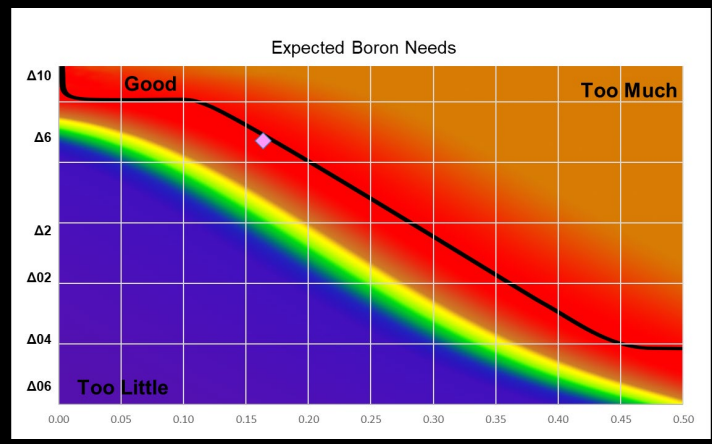
UMF

SiO_2:Al_2O_3 Ratio 10.10 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 4.23	Collective "Al_2O_3" 0.42	Na_2O 0.13	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

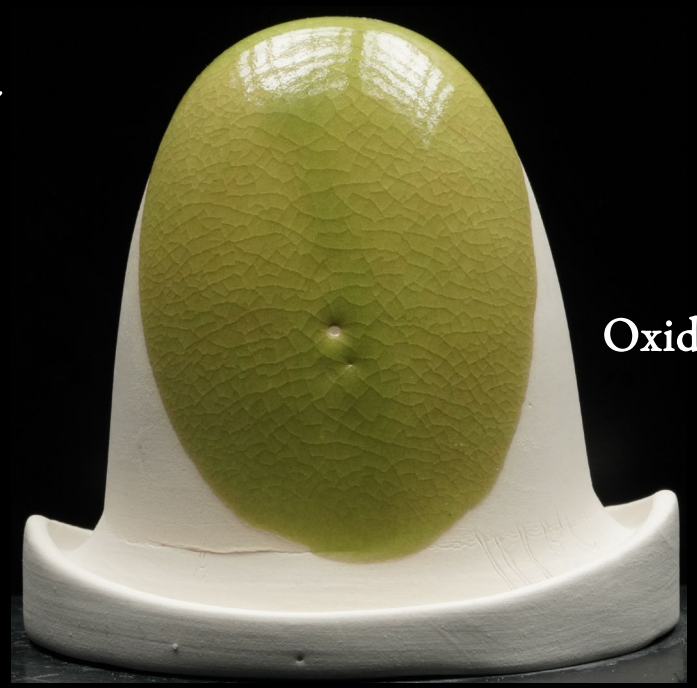
SiO_2:Al_2O_3 Ratio 10.10 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 4.23	Collective "Al_2O_3" 0.42	Na_2O 0.13	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.41	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



Glassy Eyed

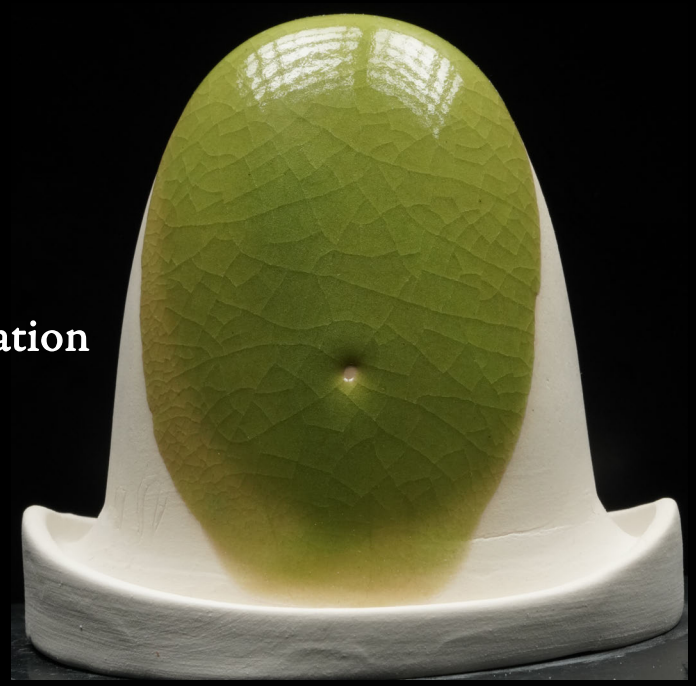
Mapping
Silica 6
070422-27

G200 EU	22.08
Strontium Carb	17.95
EPK	17.14
Flint	38.08
3134	13.22
Chrome Oxide	0.33
Water	75

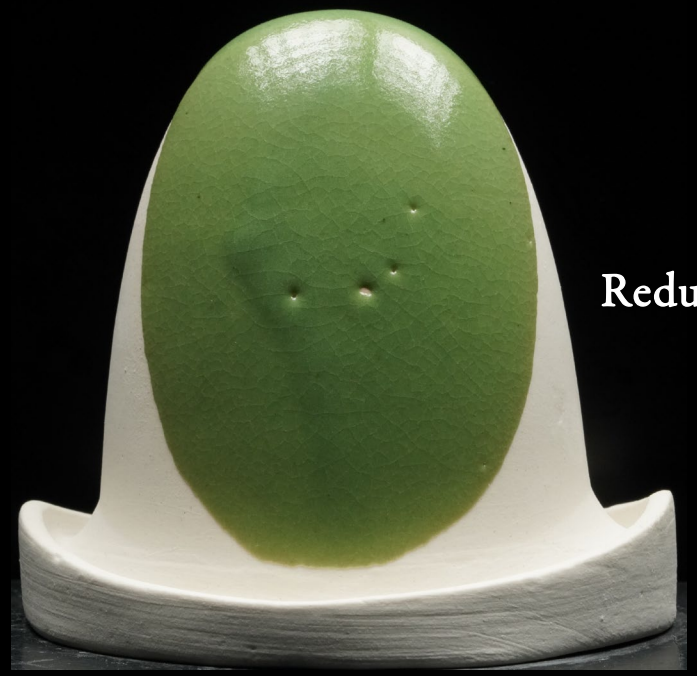


1-3 Second Dip

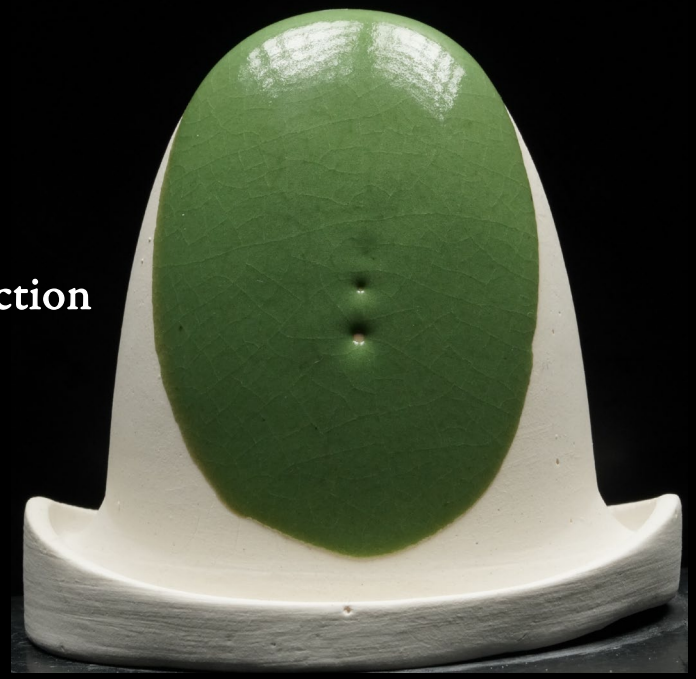
Oxidation



2-3 Second Dips



Reduction



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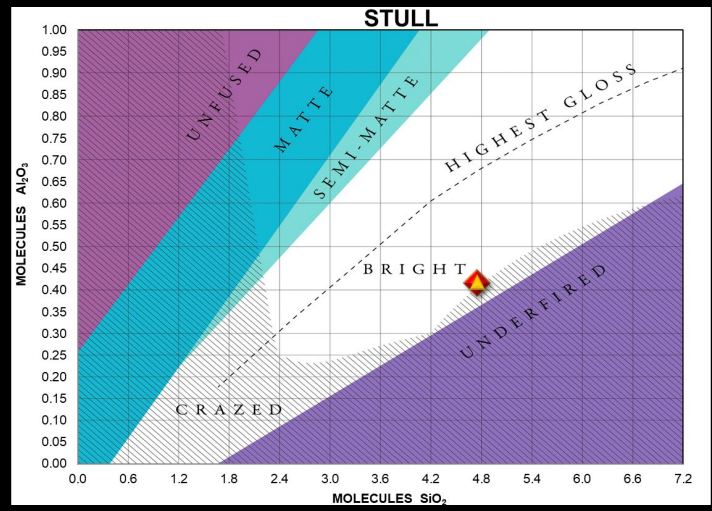
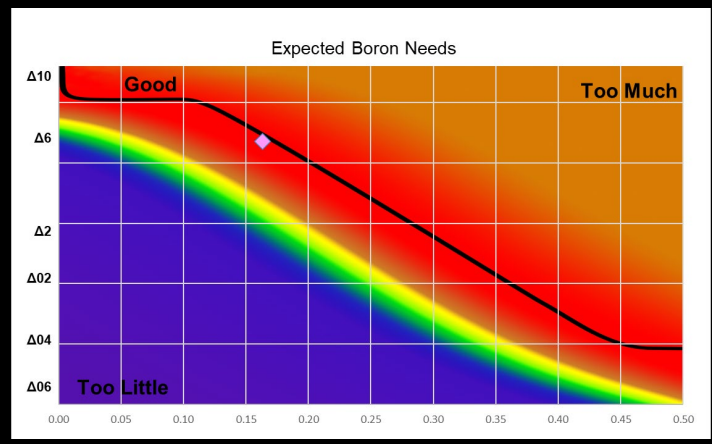
UMF

SiO_2:Al_2O_3 Ratio 11.33 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 4.75	Collective "Al_2O_3" 0.42	Na_2O 0.12	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.42	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

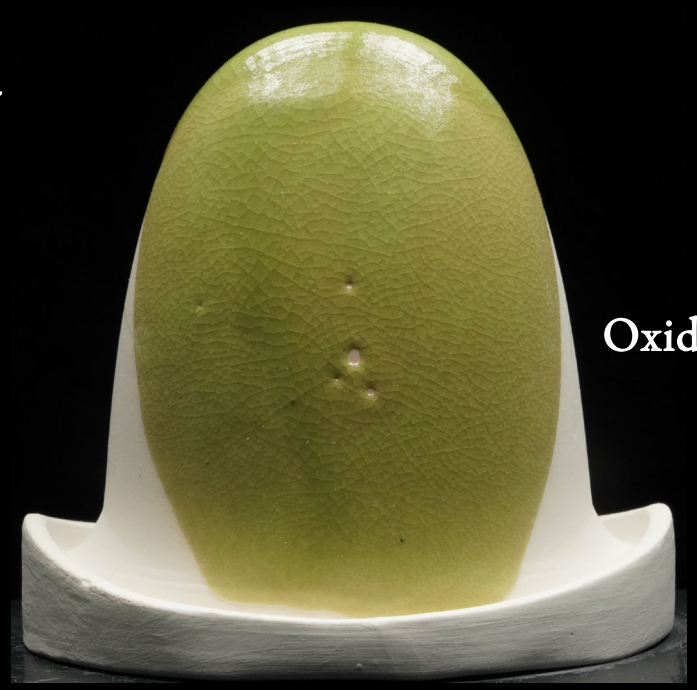
SiO_2:Al_2O_3 Ratio 11.33 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 4.75	Collective "Al_2O_3" 0.42	Na_2O 0.12	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.42	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



Glassy Eyed

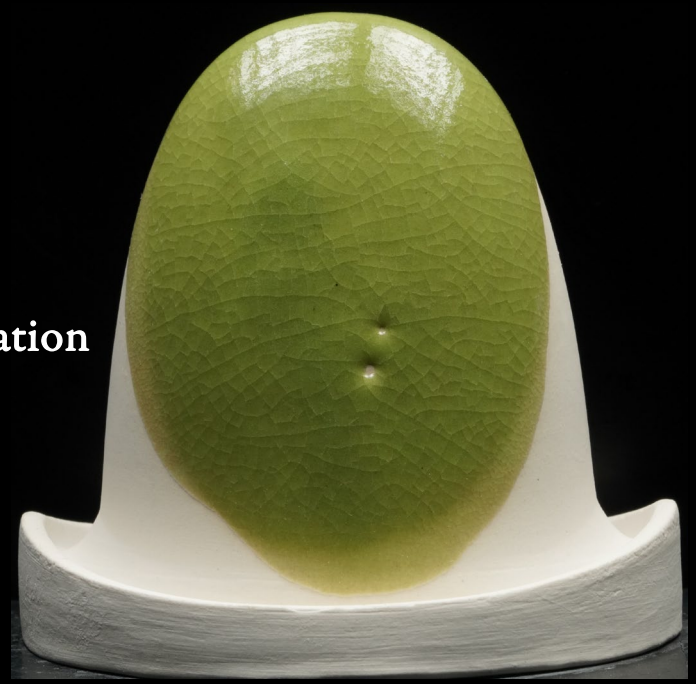
Mapping
Silica 7
070422-28

G200 EU	19.11
Strontium Carb	15.54
EPK	14.84
Flint	39.05
3134	11.45
Chrome Oxide	0.30
Water	80

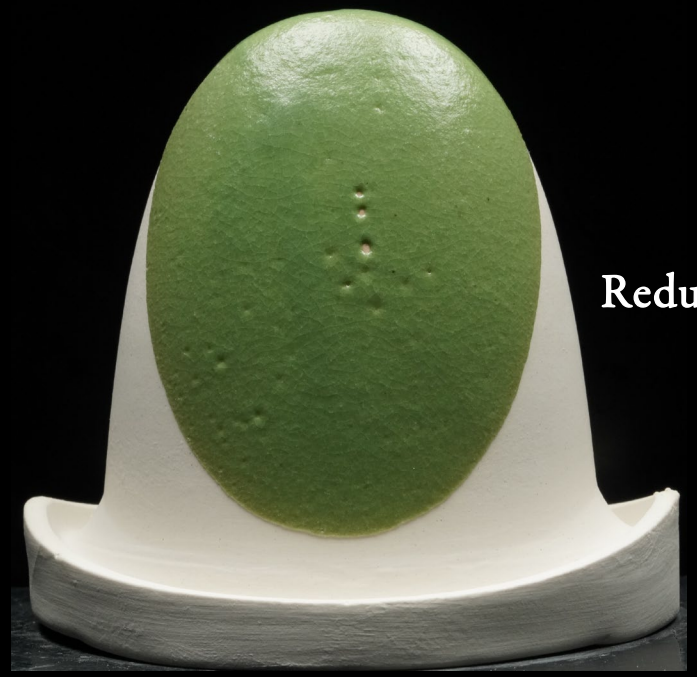


1-3 Second Dip

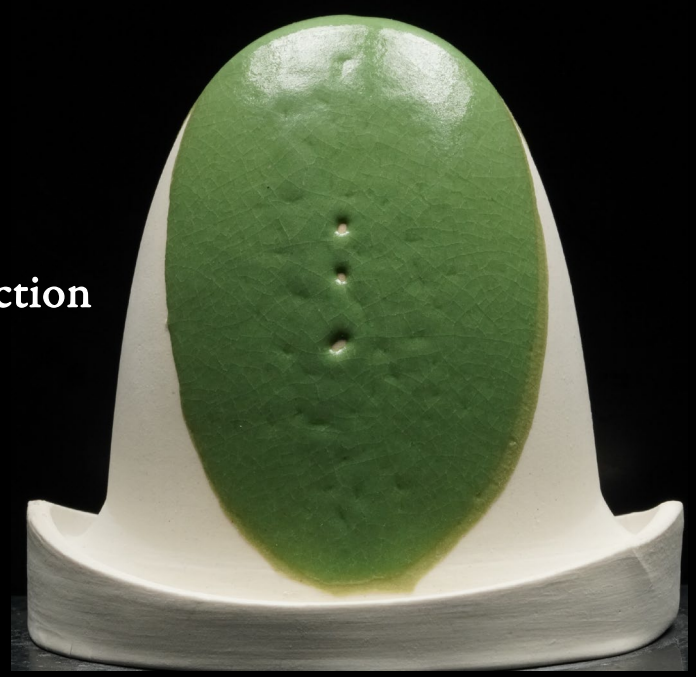
Oxidation



2-3 Second Dips



Reduction



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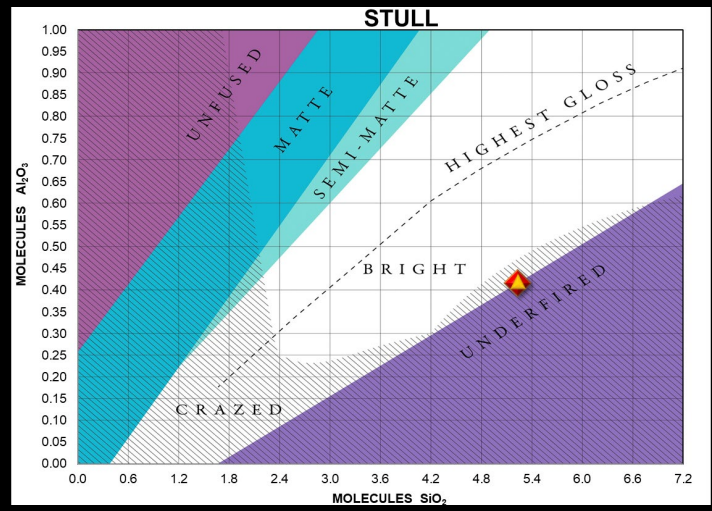
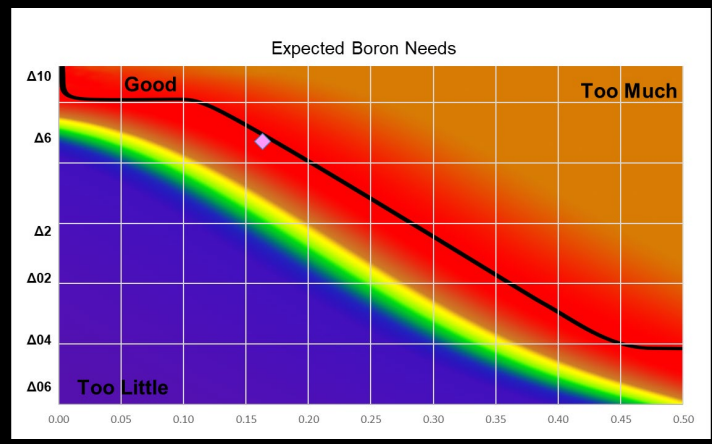
UMF

SiO_2:Al_2O_3 Ratio 12.45 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 5.24	Collective "Al_2O_3" 0.42	Na_2O 0.12	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.42	Li_2O	CuO	SrO 0.51	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 12.45 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 5.24	Collective "Al_2O_3" 0.42	Na_2O 0.12	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.42	Li_2O	CuO	SrO 0.51	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



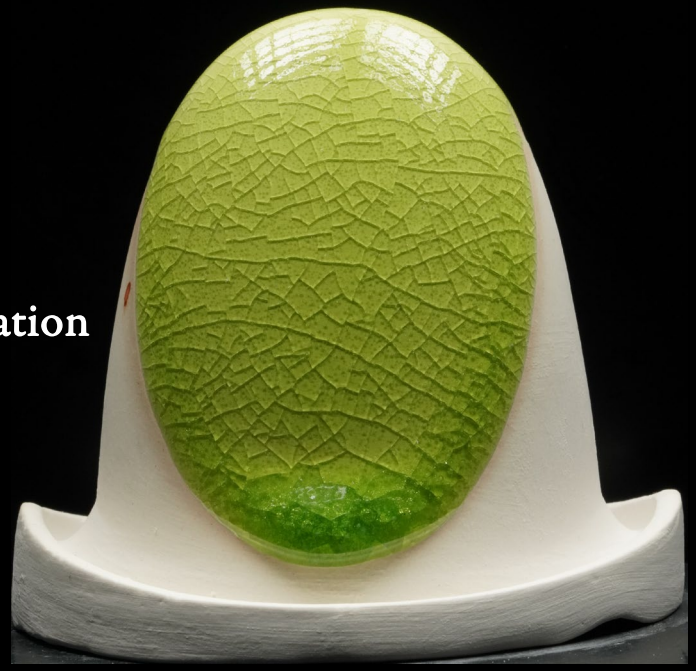
Glassy Eyed

Mapping
Kaolin 2
070422-29

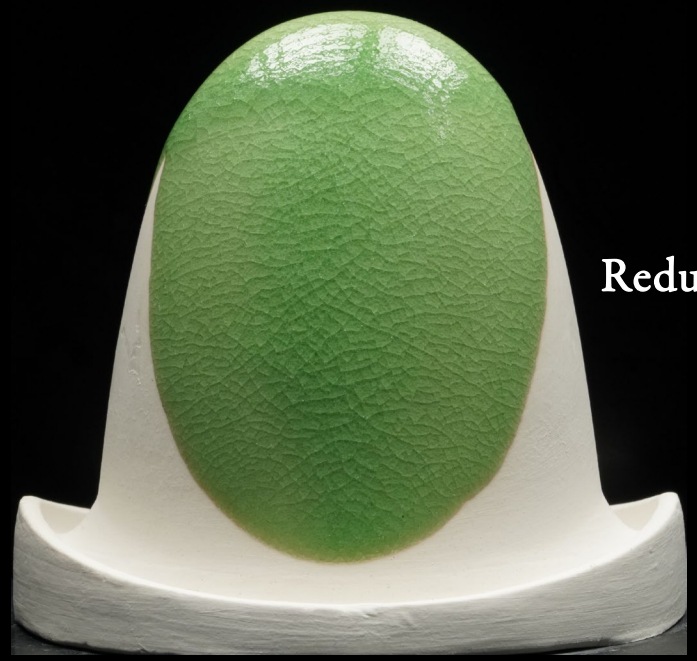
G200 EU	26.99
Strontium Carb	21.94
EPK	6.98
Flint	27.93
3134	16.16
Chrome Oxide	0.30
Water	75

1-3 Second Dip

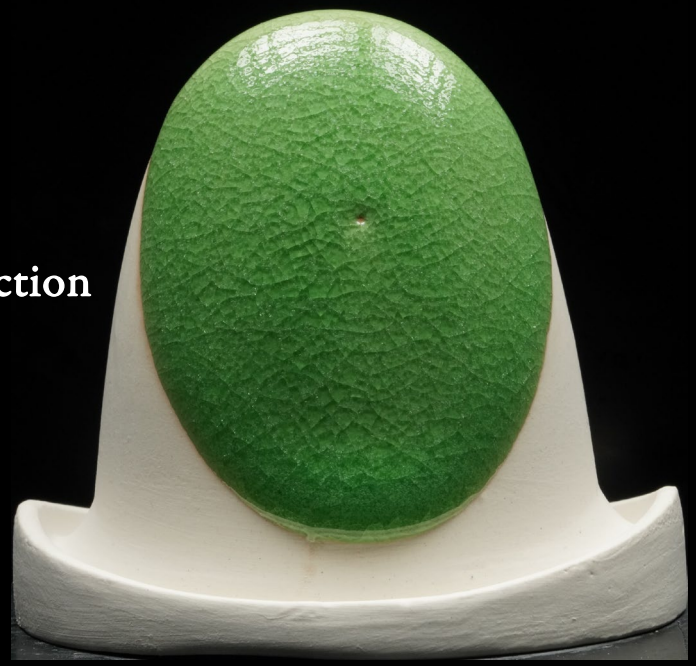
Oxidation



2-3 Second Dips



Reduction



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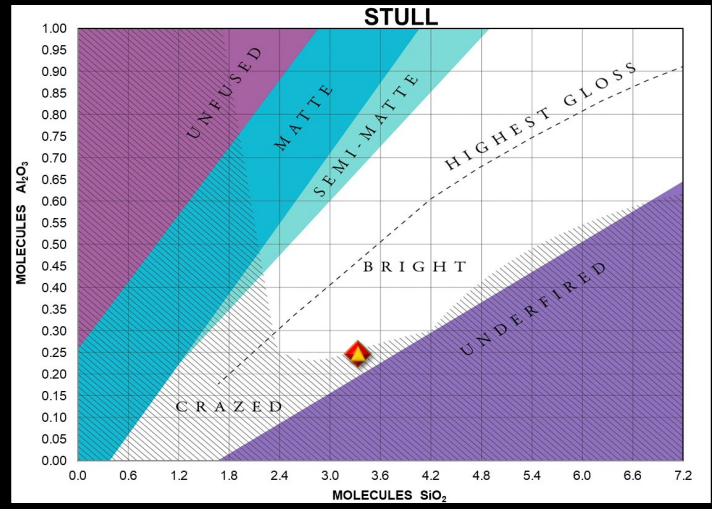
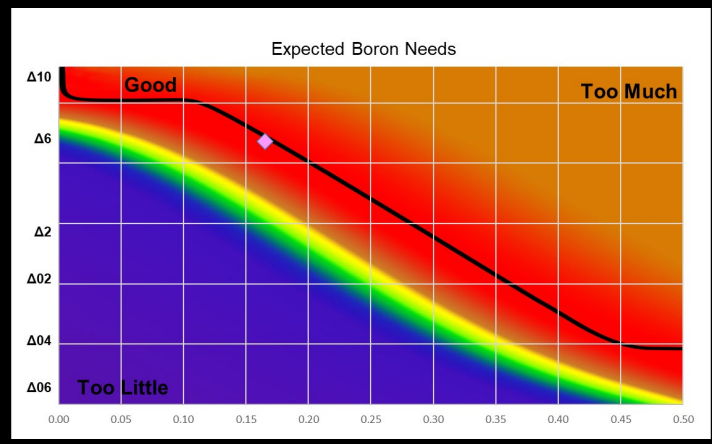
UMF

SiO_2:Al_2O_3 Ratio 13.41 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.34	Collective "Al_2O_3" 0.25	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.17	Al_2O_3 0.25	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 13.41 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.34	Collective "Al_2O_3" 0.25	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.17	Al_2O_3 0.25	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



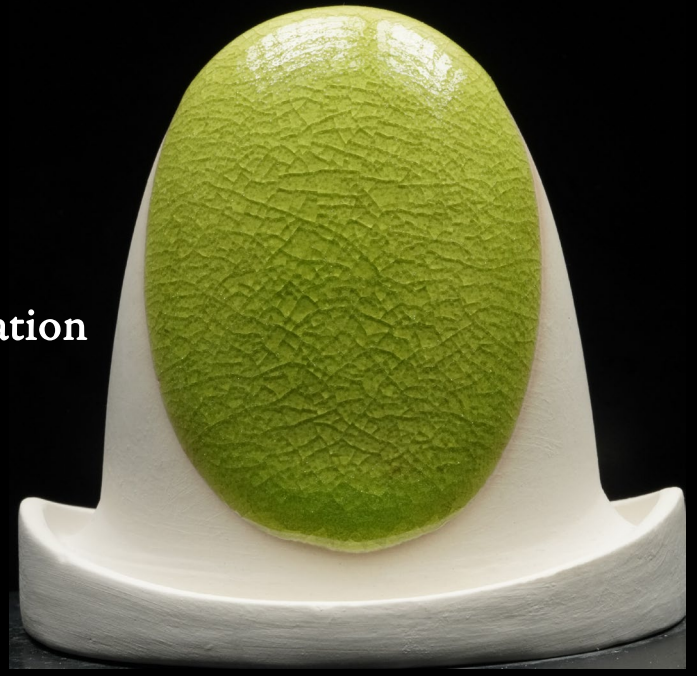
Glassy Eyed

Mapping
Kaolin 3
070422-30

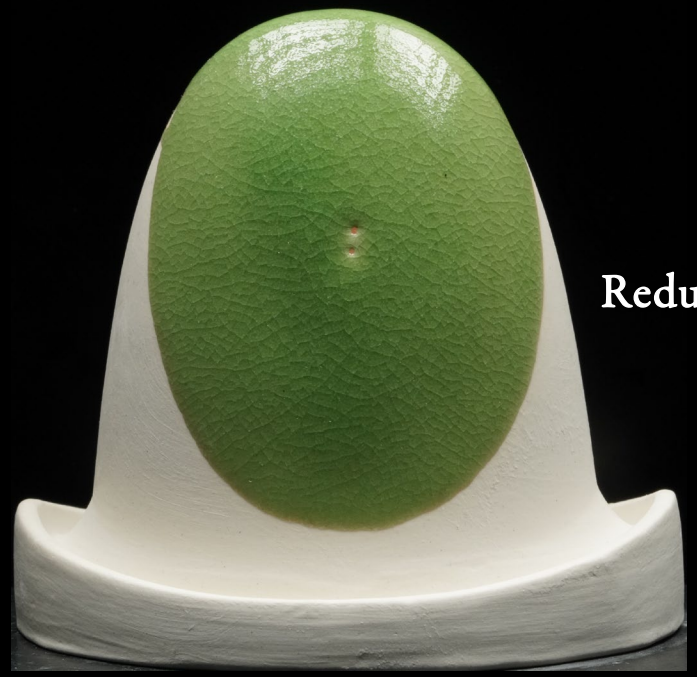
G200 EU	25.22
Strontium Carb	20.51
EPK	13.05
Flint	26.11
3134	15.11
Chrome Oxide	0.30
Water	60

1-3 Second Dip

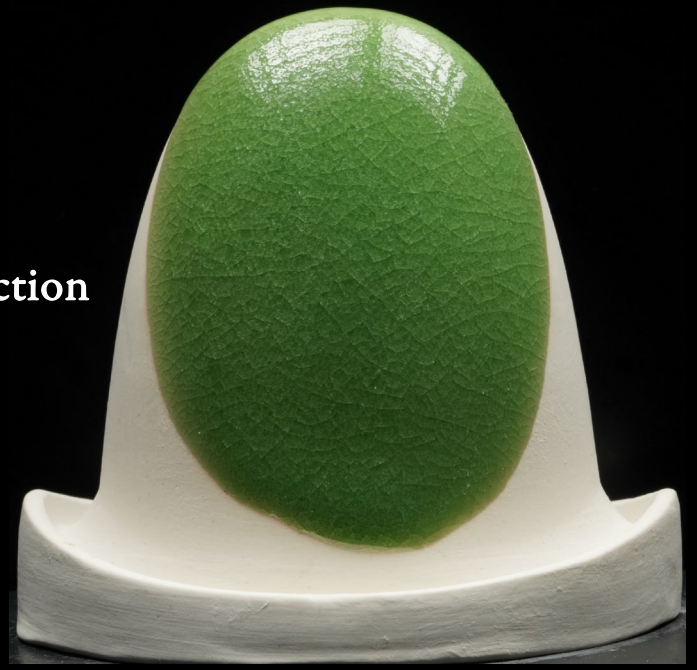
Oxidation



2-3 Second Dips



Reduction



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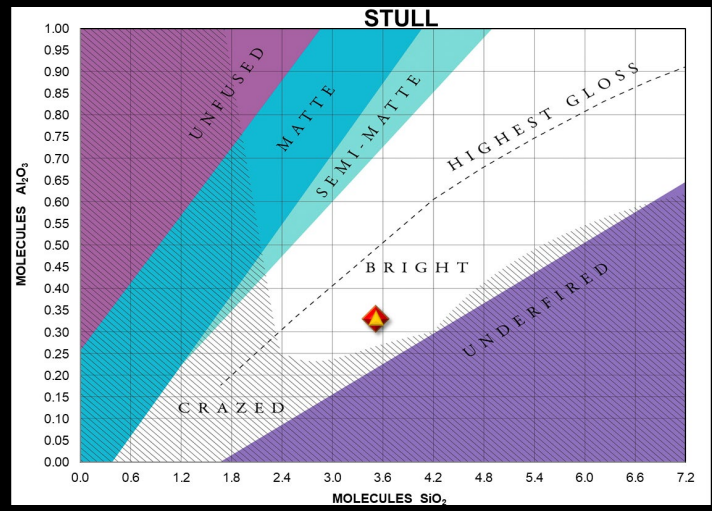
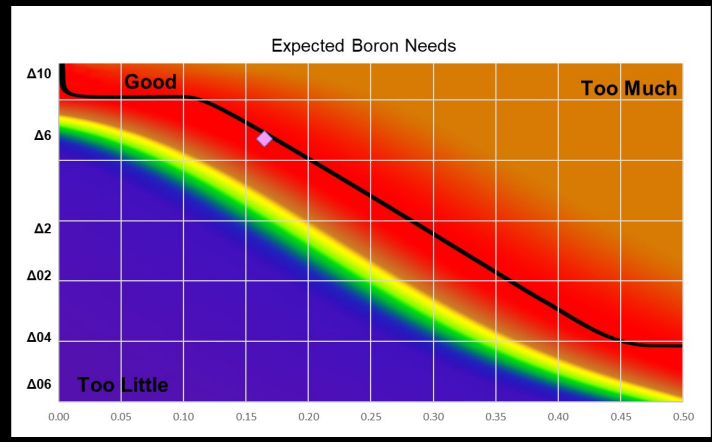
UMF

SiO_2:Al_2O_3 Ratio 10.56 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.52	Collective "Al_2O_3" 0.33	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.33	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 10.56 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.52	Collective "Al_2O_3" 0.33	Na_2O 0.13	K_2O 0.11	MgO 0.00	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.33	Li_2O	CuO	SrO 0.52	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.01
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



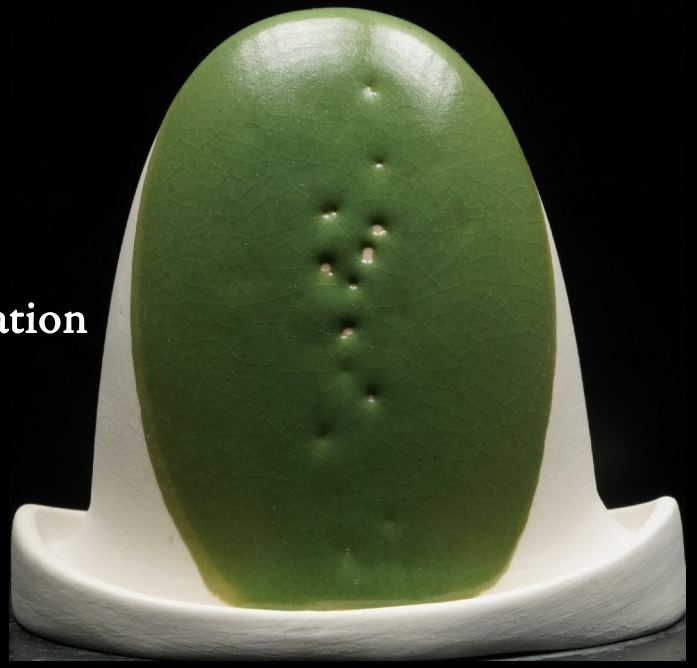
Glassy Eyed

Mapping
Kaolin 5
070422-31

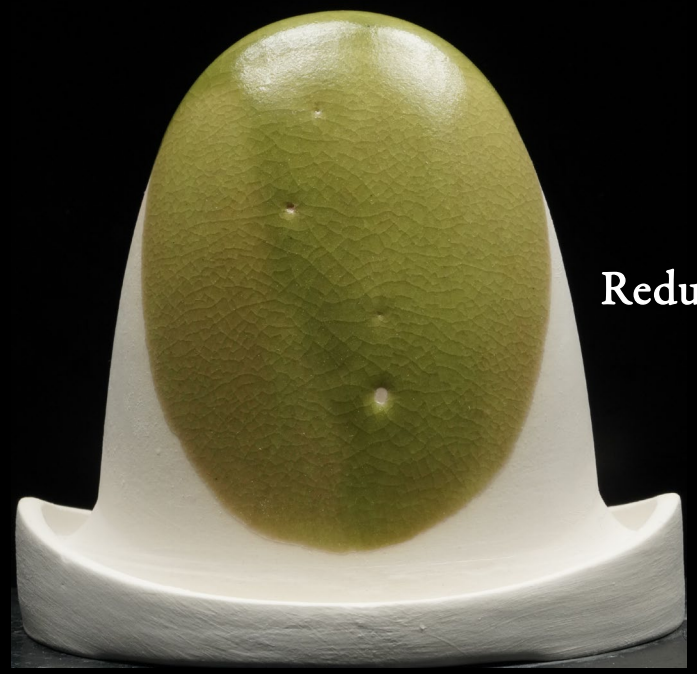
G200 EU	22.31
Strontium Carb	18.14
EPK	23.09
Flint	23.09
3134	13.36
Chrome Oxide	0.30
Water	85

1-3 Second Dip

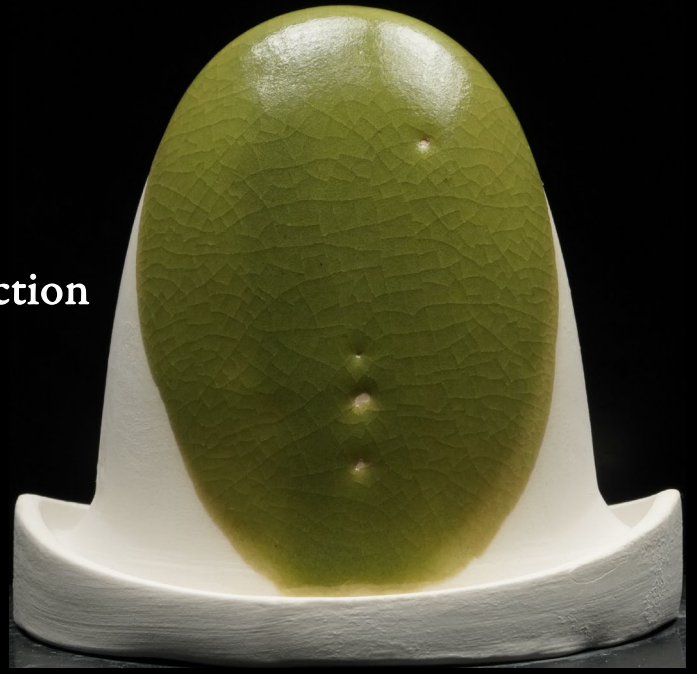
Oxidation



2-3 Second Dips



Reduction



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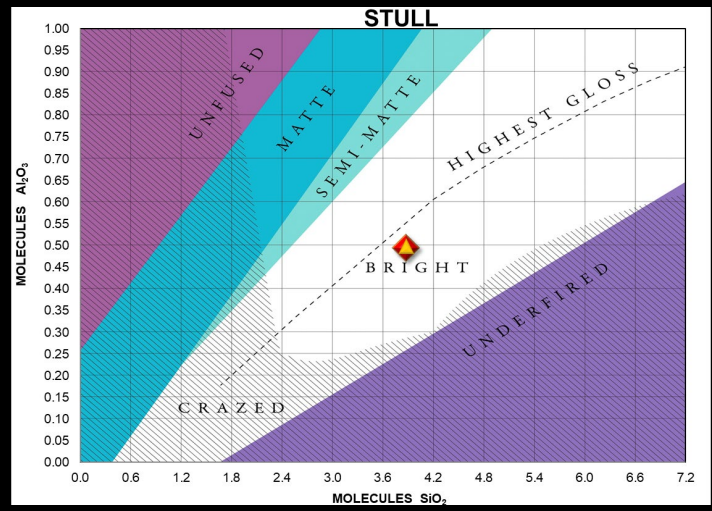
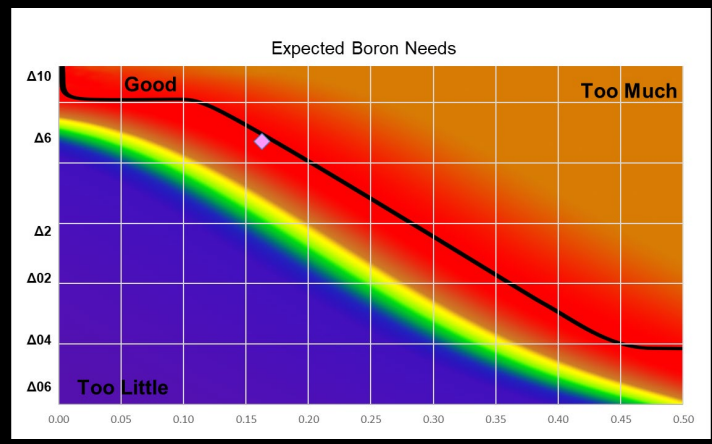
UMF

SiO_2:Al_2O_3 Ratio 7.76 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.88	Collective "Al_2O_3" 0.50	Na_2O 0.12	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.49	Li_2O	CuO	SrO 0.51	BaO
TiO_2 0.01	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.02
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 7.76 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 3.88	Collective "Al_2O_3" 0.50	Na_2O 0.12	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.49	Li_2O	CuO	SrO 0.51	BaO
TiO_2 0.01	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.02
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



Glassy Eyed

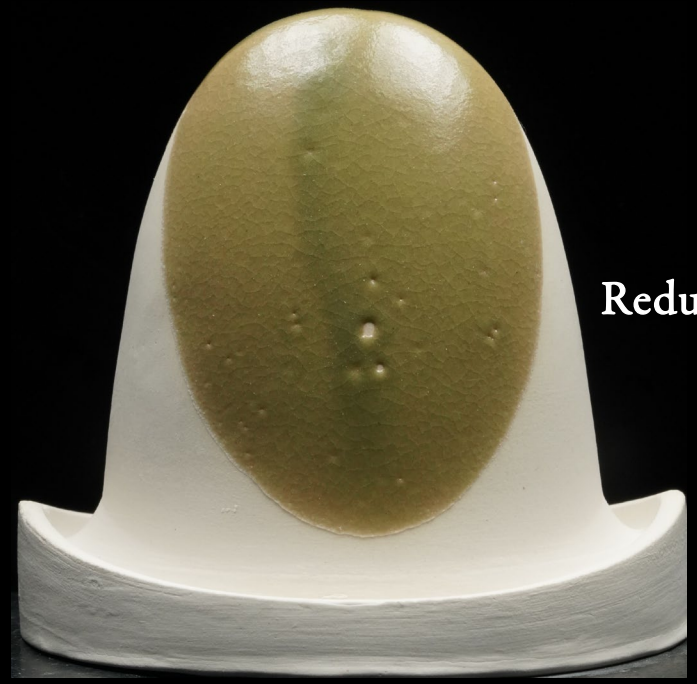
Mapping
Kaolin 6
070422-32

G200 EU	21.09
Strontium Carb	17.15
EPK	27.29
Flint	21.83
3134	12.63
Chrome Oxide	0.30
Water	85

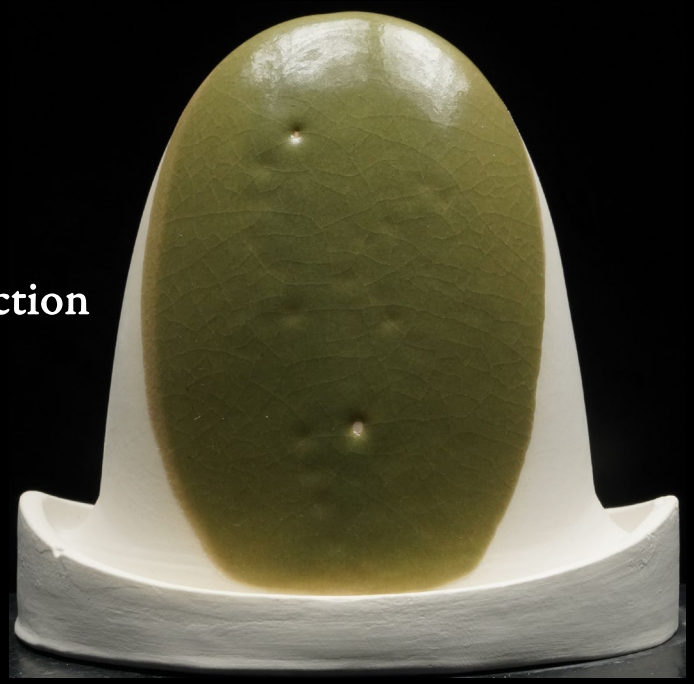
1-3 Second Dip

Oxidation

2-3 Second Dips



Reduction



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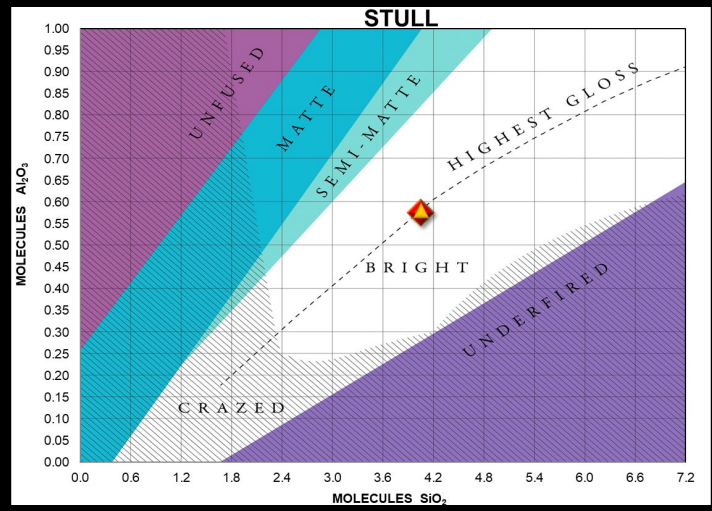
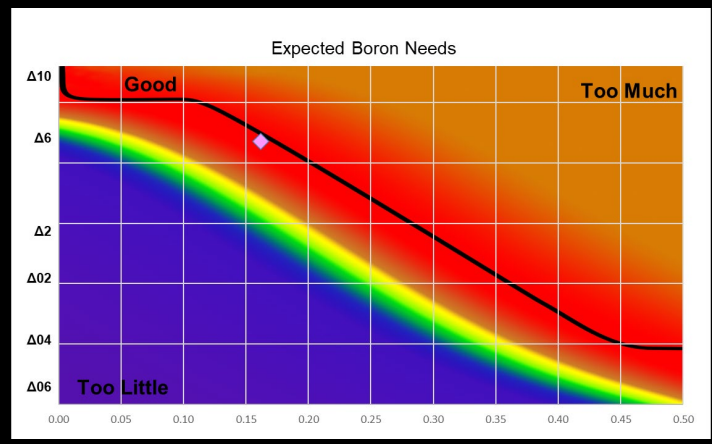
UMF

SiO_2:Al_2O_3 Ratio 6.97 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 4.05	Collective "Al_2O_3" 0.58	Na_2O 0.12	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.58	Li_2O	CuO	SrO 0.51	BaO
TiO_2 0.01	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.02
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 6.97 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 4.05	Collective "Al_2O_3" 0.58	Na_2O 0.12	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.58	Li_2O	CuO	SrO 0.51	BaO
TiO_2 0.01	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.02
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO



Glassy Eyed

Mapping
Kaolin 7
070422-33

G200 EU	20.00
Strontium Carb	16.26
EPK	31.05
Flint	20.70
3134	11.98
Chrome Oxide	0.30
Water	85

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction

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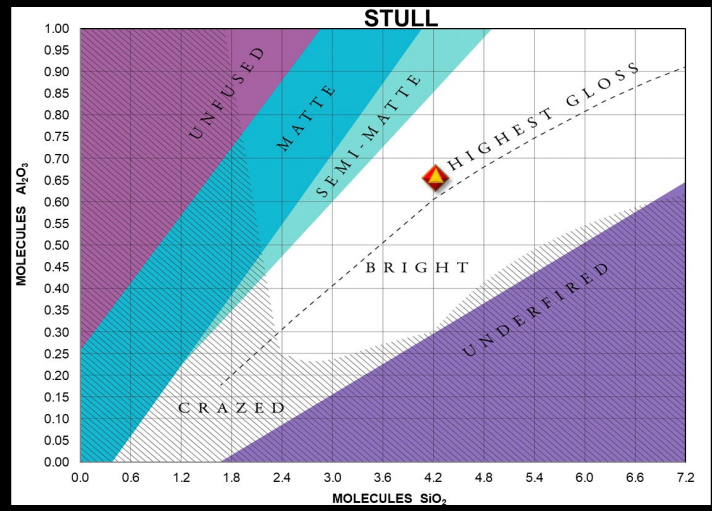
UMF

SiO_2:Al_2O_3 Ratio 6.39 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 4.23	Collective "Al_2O_3" 0.66	Na_2O 0.12	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.66	Li_2O	CuO	SrO 0.51	BaO
TiO_2 0.01	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.02
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 6.39 :1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO_2 4.23	Collective "Al_2O_3" 0.66	Na_2O 0.12	K_2O 0.11	MgO 0.01	CaO 0.23
B_2O_3 0.16	Al_2O_3 0.66	Li_2O	CuO	SrO 0.51	BaO
TiO_2 0.01	NiO	Bi_2O_3	SnO_2	ZnO	FeO 0.02
Cr_2O_3 0.01	ZrO_2	P_2O_5		MnO_2	CoO