Big Red-Δ6

Lab 3-Sili-Closeness

Ceramic
Materials
Workshop

Big Red

Original

070822 -1

G200 EU	23.37
Whiting	27.11
EPK	11.17
Flint	12.73
3134	25.62
Chrome Oxide	0.10
Tin Oxide	8.00
Water	60

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction

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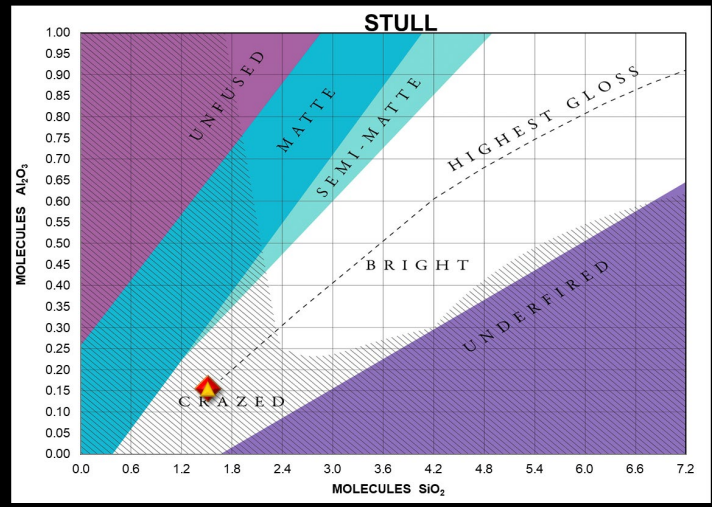
Ceramic Materials Workshop

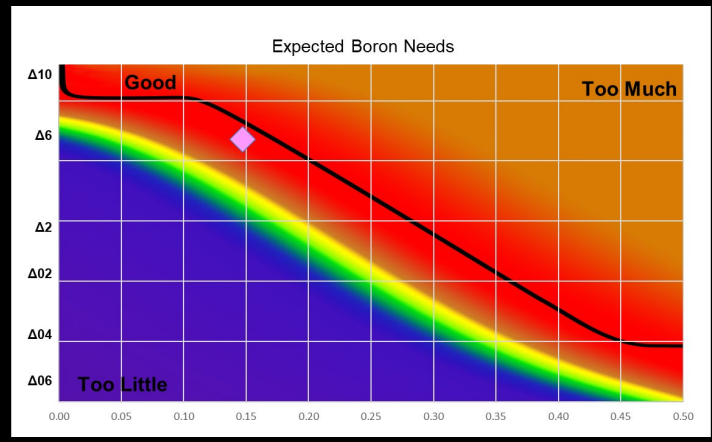
UMF

SiO_2:Al_2O_3 Ratio 9.75 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.69	Collective "Al_2O_3" 0.17	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.17	Li_2O	CuO	SrO	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

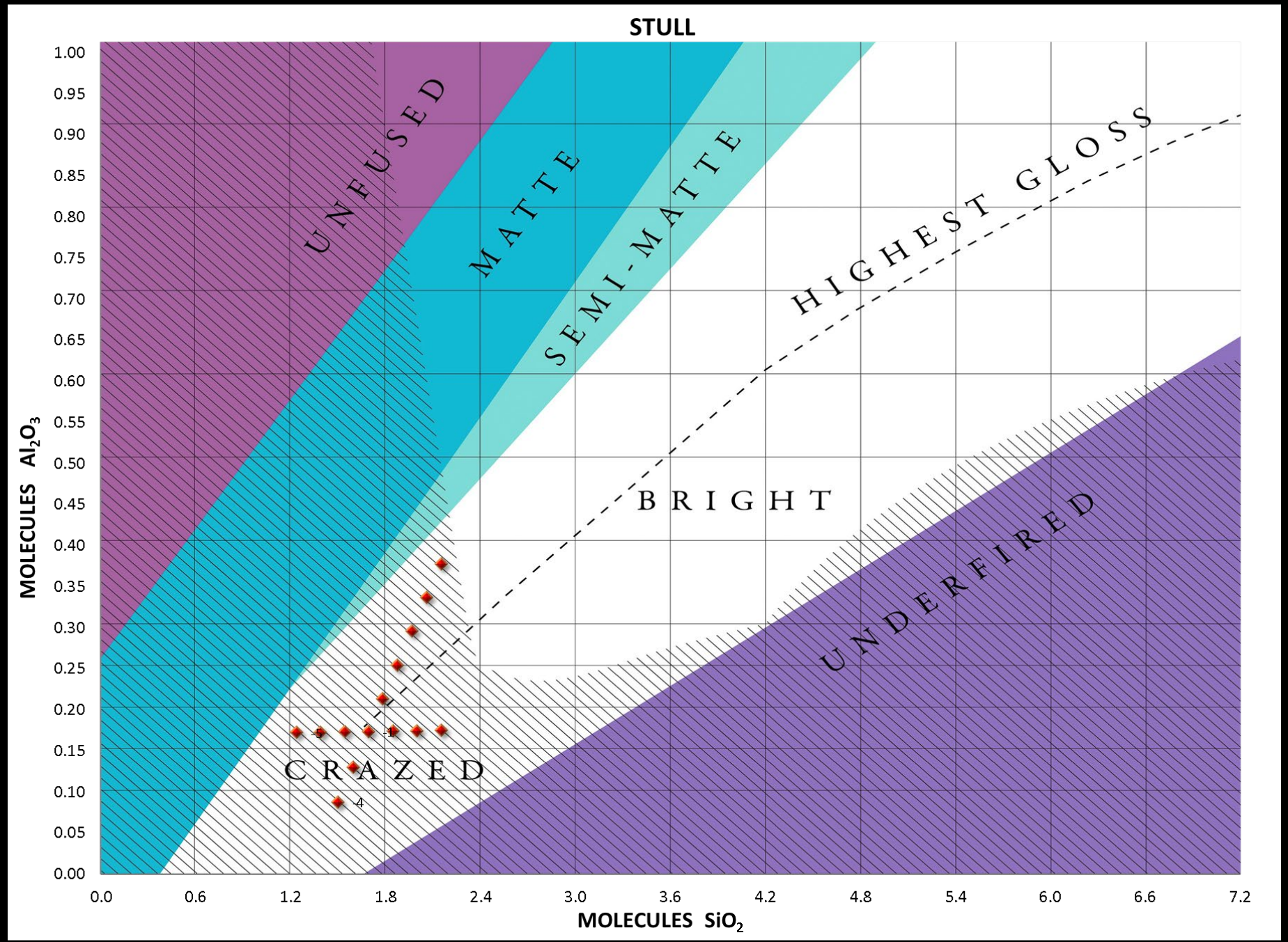


EUMF

SiO_2:Al_2O_3 Ratio 9.75 :1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO_2 1.52	Collective "Al_2O_3" 0.16	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.74
B_2O_3 0.15	Al_2O_3 0.15	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.10	ZnO	FeO 0.00
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



UMF



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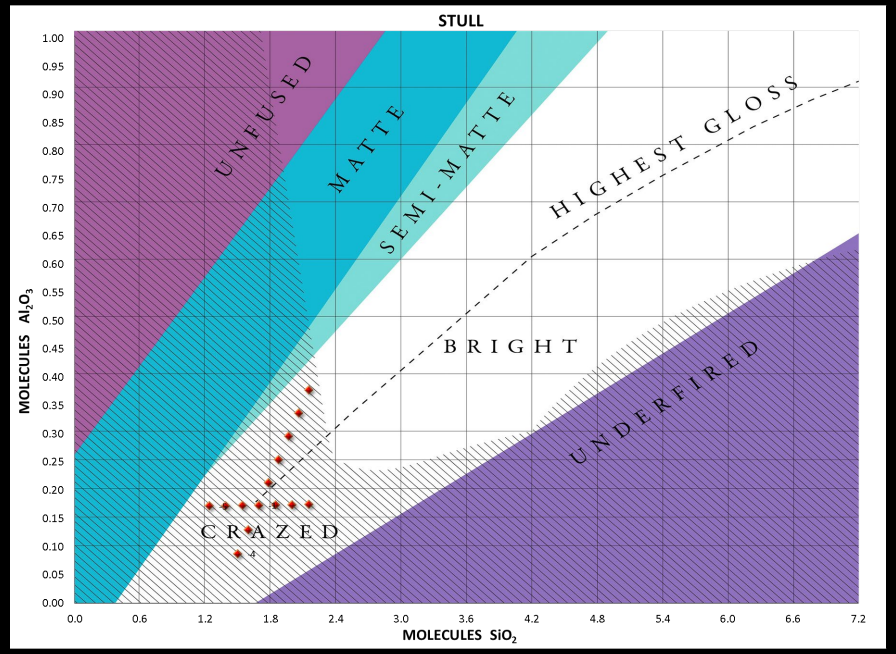
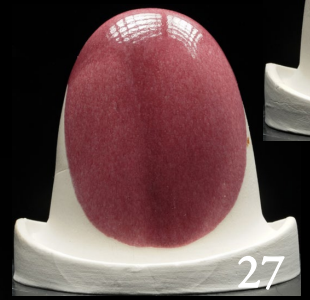
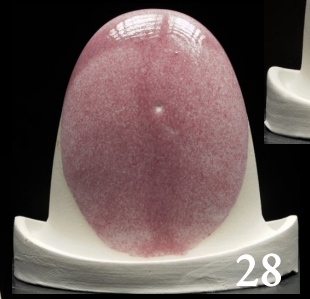
Full Test-Oxidation-1-3 Second Dip







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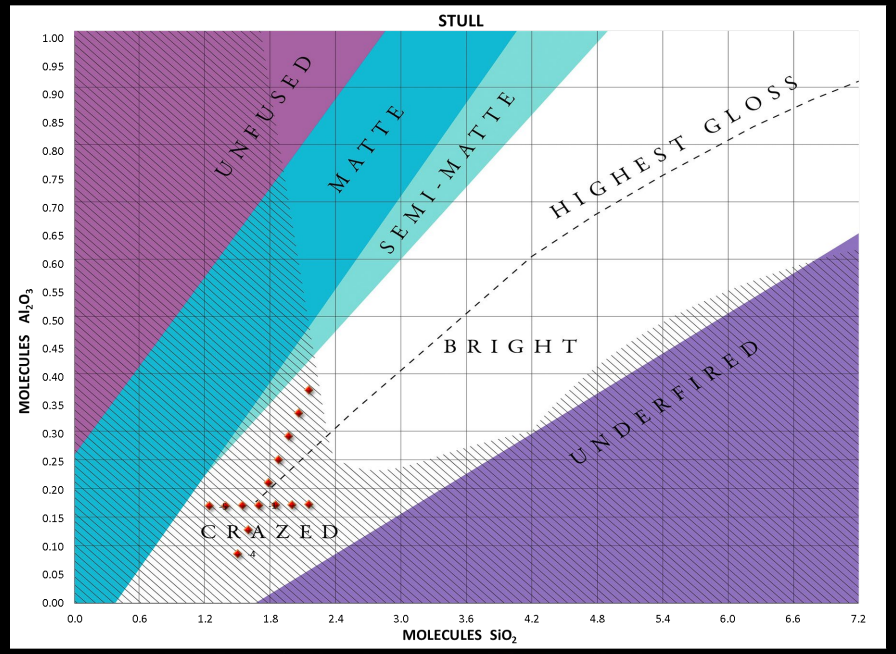
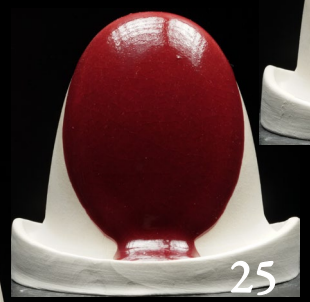
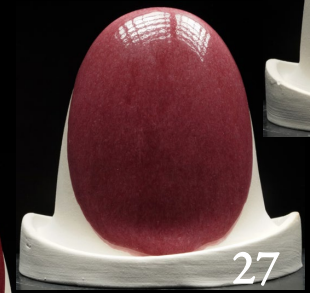
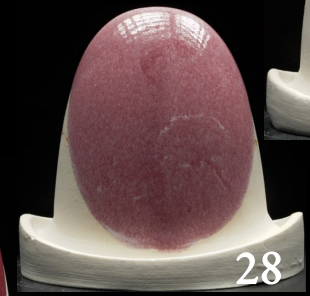
Full Test-Oxidation-2-3 Second Dips









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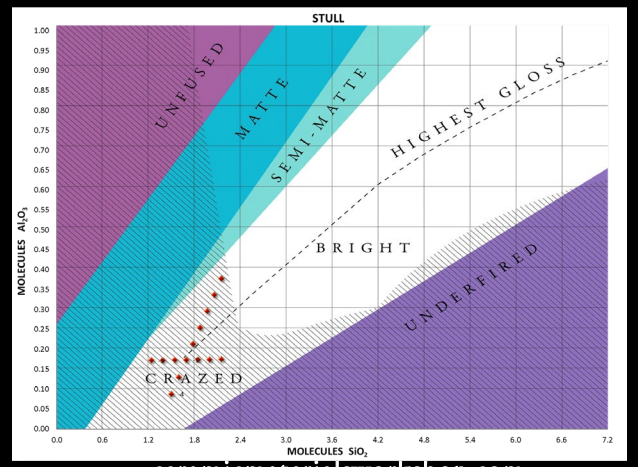
Silica Variations-Oxidation

1-3 Second Dip

070822-5 | 070822-30 | 070822-31 | 070822-1 | 070822-32 | 070822-33 | 070822-34

2-3 Second Dips



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Alumina Variations-Oxidation

1-3 Second Dip


070822-4


070822-24


070822-1


070822-25

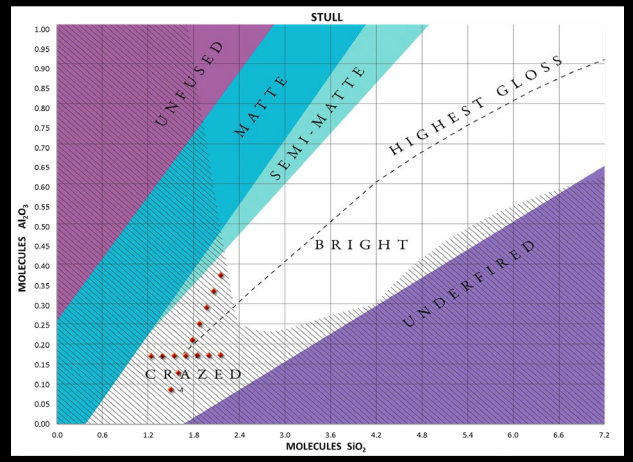

070822-26


070822-27


070822-28


070822-29

2-3 Second Dips



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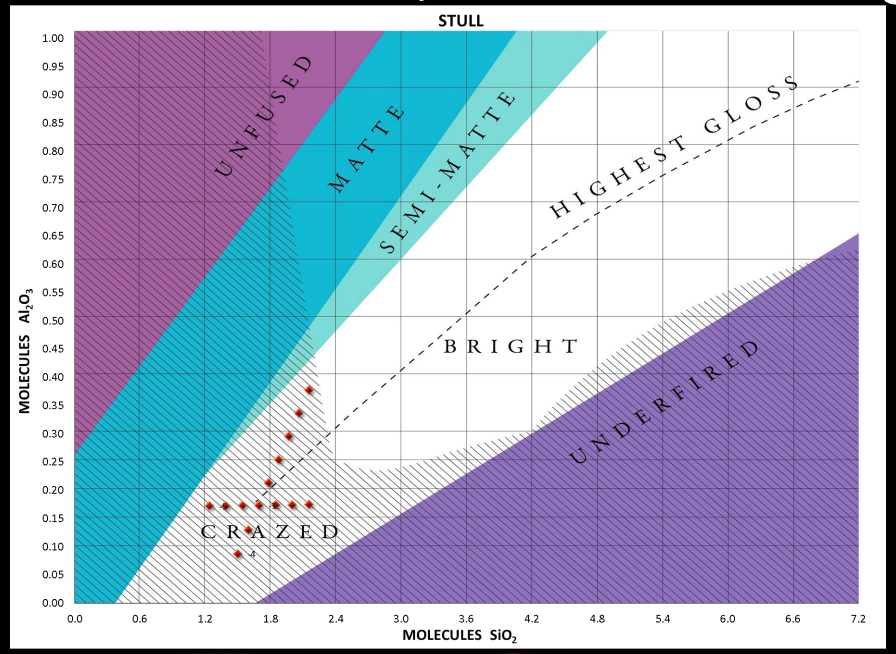
Full Test-Reduction-1-3 Second Dip



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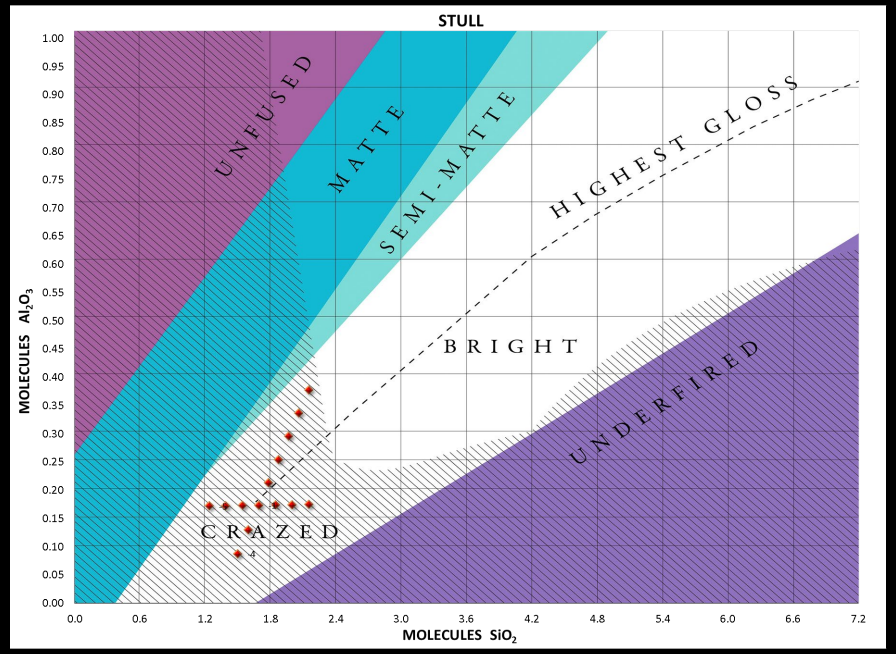
Full Test-Reduction-2-3 Second Dips



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Silica Variations-Reduction

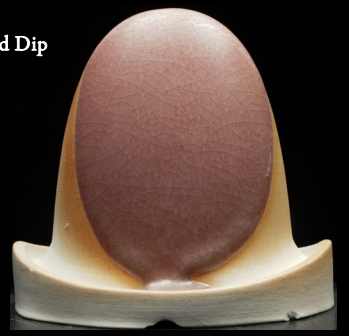
1-3 Second Dip


070822-5


070822-24


070822-25

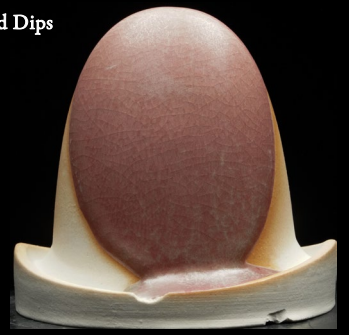

070822-1

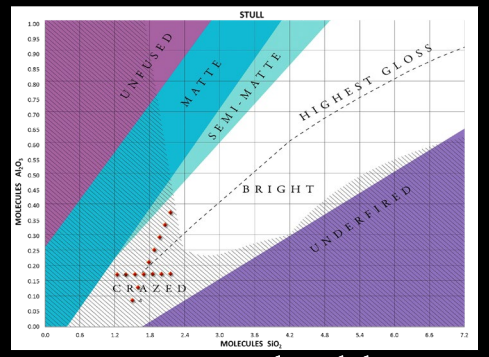

070822-26


070822-27


070822-28

2-3 Second Dips





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Alumina Variations-Reduction

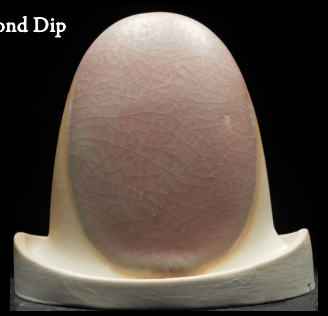
1-3 Second Dip


070822-4


070822-24


070822-1


070822-25

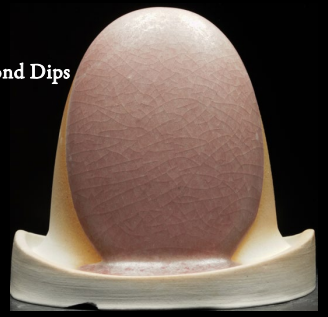

070822-26

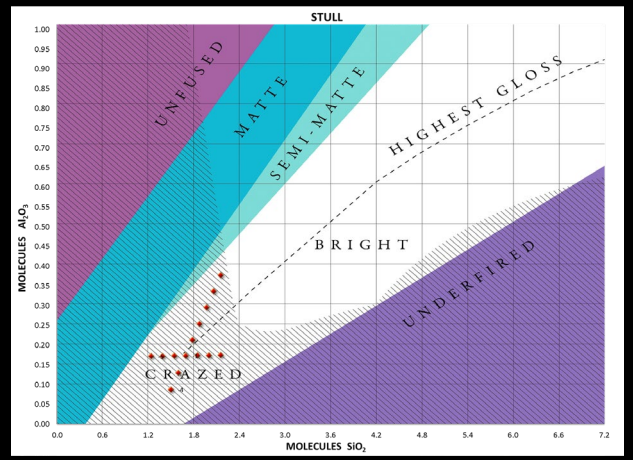

070822-27


070822-28


070822-29

2-3 Second Dips





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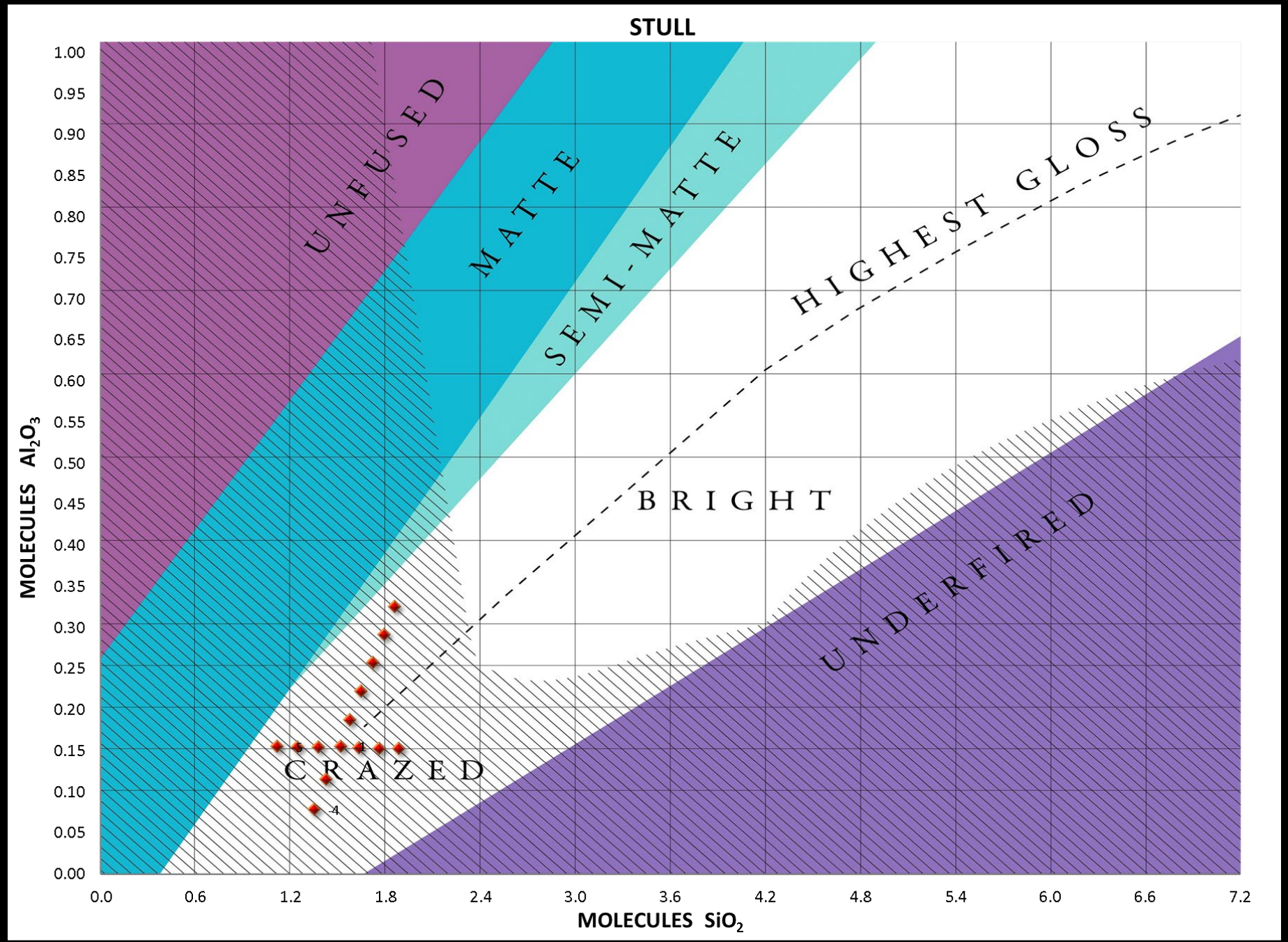
EUMF



Ceramic Materials Workshop

Big Red

Original

070822 -1

G200 EU	23.37
Whiting	27.11
EPK	11.17
Flint	12.73
3134	25.62
Chrome Oxide	0.10
Tin Oxide	8.00
Water	60

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction

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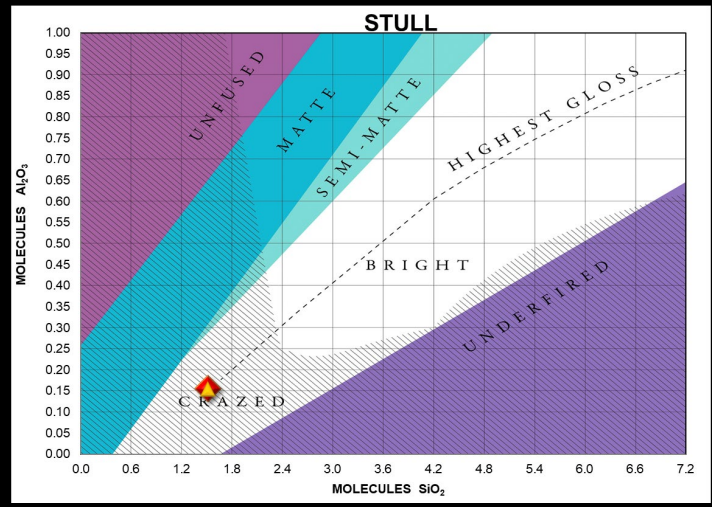
Ceramic Materials Workshop

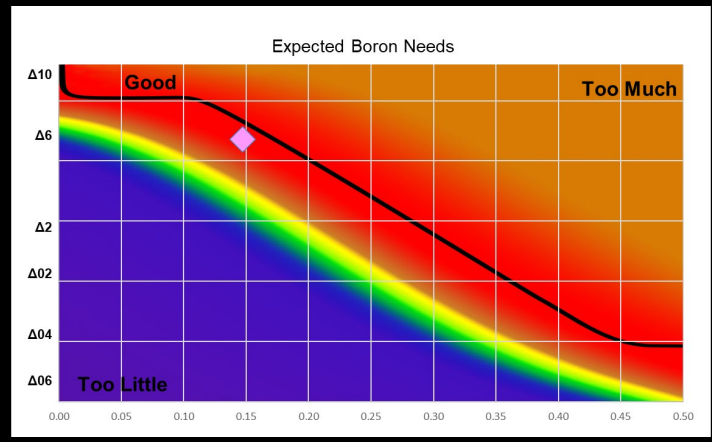
UMF

SiO_2:Al_2O_3 Ratio 9.75 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.69	Collective "Al_2O_3" 0.17	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.17	Li_2O	CuO	SrO	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 9.75 :1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO_2 1.52	Collective "Al_2O_3" 0.16	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.74
B_2O_3 0.15	Al_2O_3 0.15	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.10	ZnO	FeO 0.00
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

w/o Kaolin

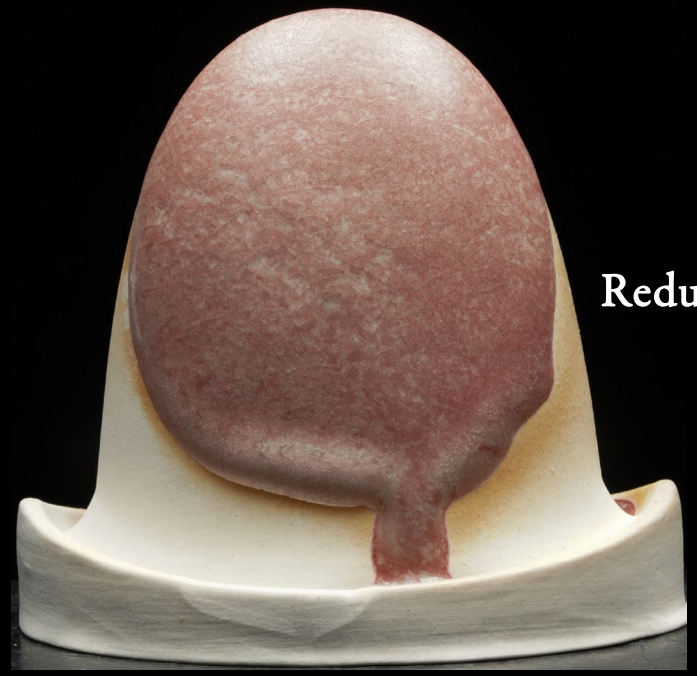
070822 -4

G200 EU	26.31
Whiting	30.52
EPK	
Flint	14.33
3134	28.84
Chrome Oxide	0.11
Tin Oxide	8.71
Water	60

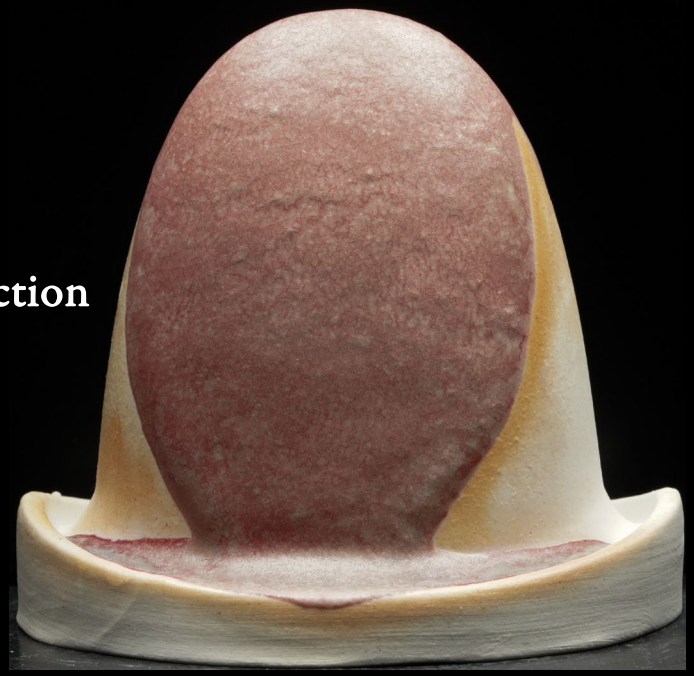
1-3 Second Dip

Oxidation

2-3 Second Dips



Reduction



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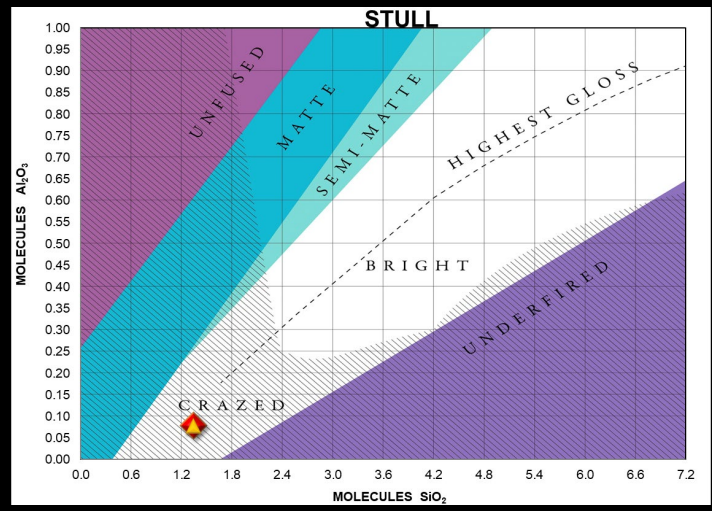
Ceramic Materials Workshop

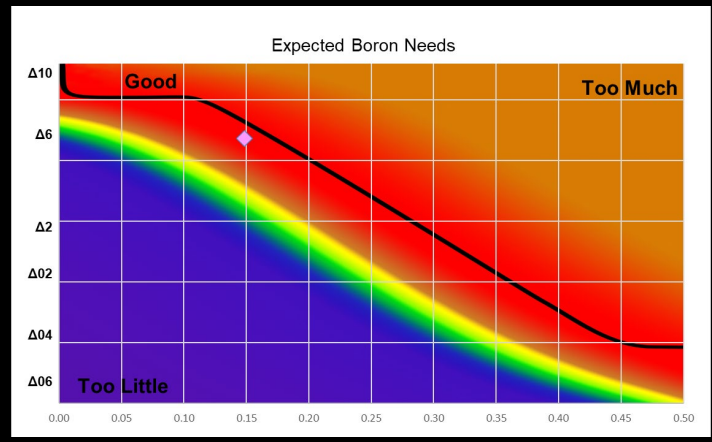
UMF

SiO_2:Al_2O_3 Ratio 17.11 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.50	Collective "Al_2O_3" 0.09	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.83
B_2O_3 0.17	Al_2O_3 0.09	Li_2O	CuO	SrO	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 17.11 :1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO_2 1.35	Collective "Al_2O_3" 0.08	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.74
B_2O_3 0.15	Al_2O_3 0.08	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.10	ZnO	FeO 0.00
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

w/o Silica

070822 -5

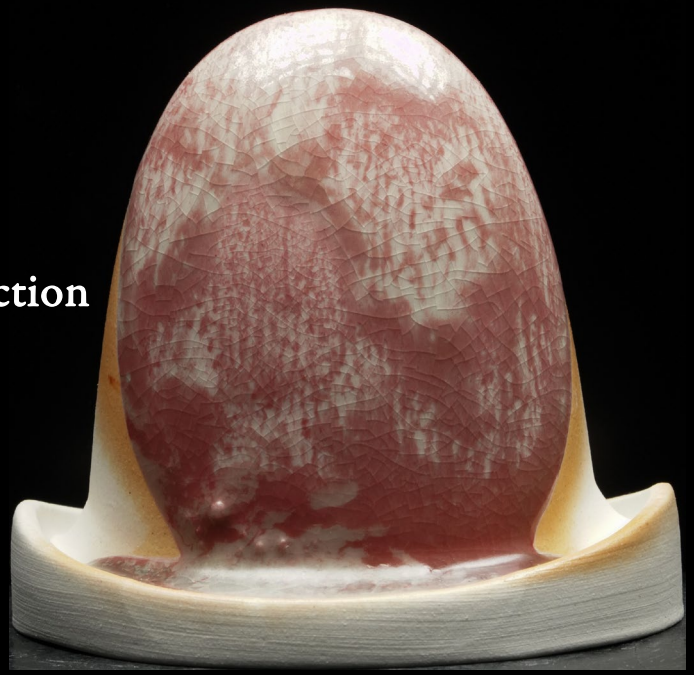
G200 EU	26.78
Whiting	31.07
EPK	12.80
Flint	
3134	29.36
Chrome Oxide	0.11
Tin Oxide	8.71
Water	60

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction



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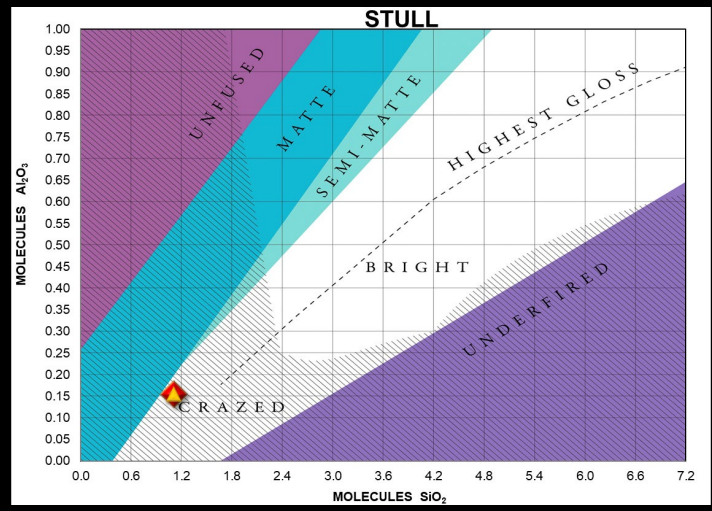
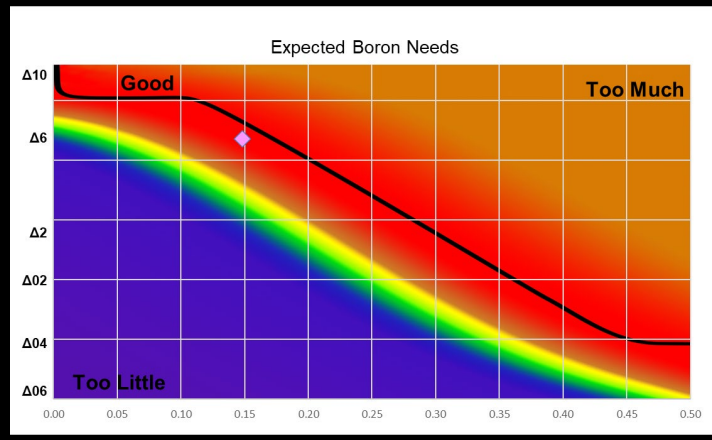
UMF

SiO_2:Al_2O_3 Ratio 7.16 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.23	Collective "Al_2O_3" 0.17	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.17	Li_2O	CuO	SrO	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 7.16 :1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO_2 1.11	Collective "Al_2O_3" 0.16	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.74
B_2O_3 0.15	Al_2O_3 0.15	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.10	ZnO	FeO 0.00
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

Mapping
Kaolin 2
070822-24

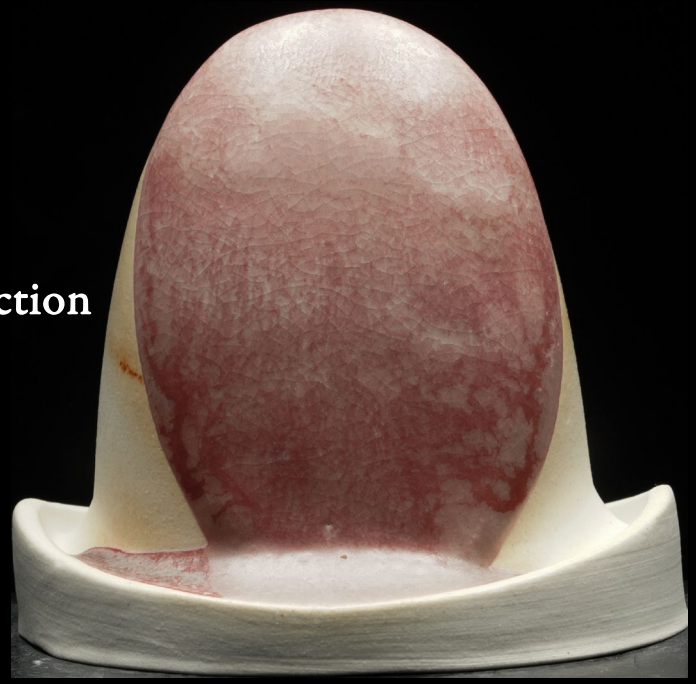
G200 EU	24.79
Whiting	28.76
EPK	5.77
Flint	13.51
3134	27.17
Chrome Oxide	0.11
Tin Oxide	8.70
Water	65

Oxidation

1-3 Second Dip

2-3 Second Dips

Reduction



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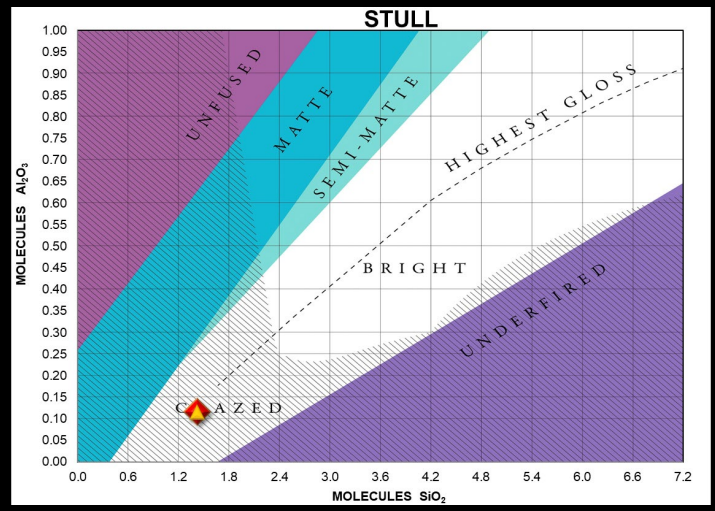
Ceramic Materials Workshop

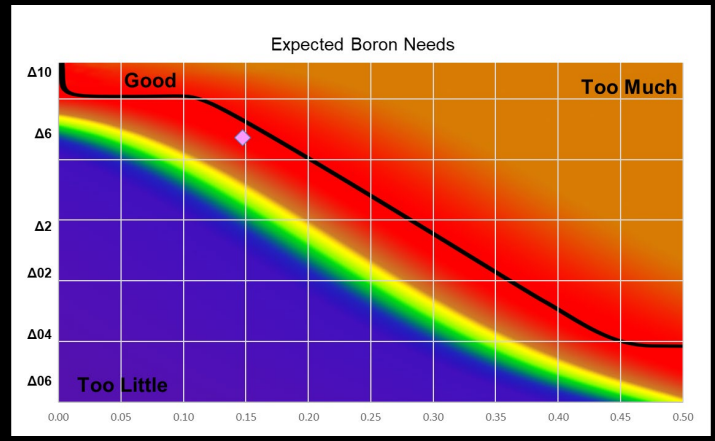
UMF

SiO_2:Al_2O_3 Ratio 12.29 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.59	Collective "Al_2O_3" 0.13	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.13	Li_2O	CuO	SrO	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 12.29 :1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO_2 1.42	Collective "Al_2O_3" 0.12	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.73
B_2O_3 0.15	Al_2O_3 0.11	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.11	ZnO	FeO 0.00
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

Mapping
Kaolin 4
070822-25

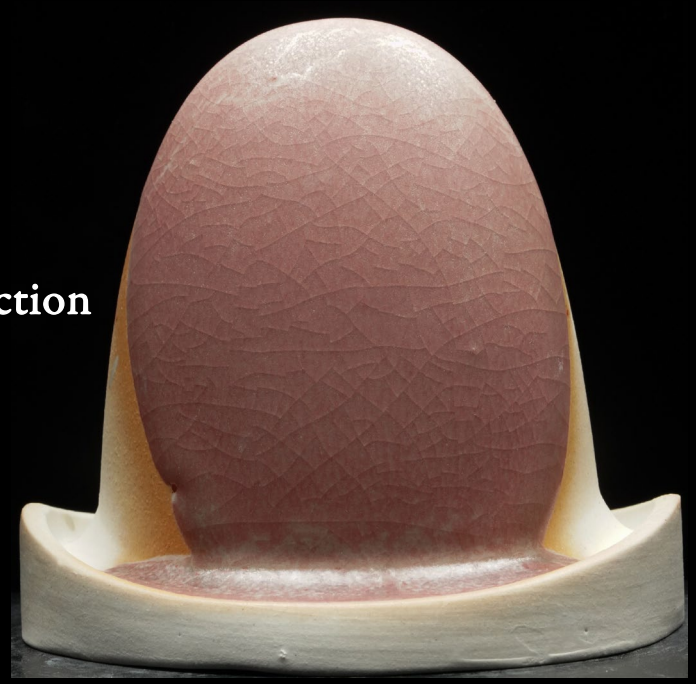
G200 EU	20.42
Whiting	23.70
EPK	14.27
Flint	11.13
3134	22.39
Chrome Oxide	0.10
Tin Oxide	8.00
Water	70

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction



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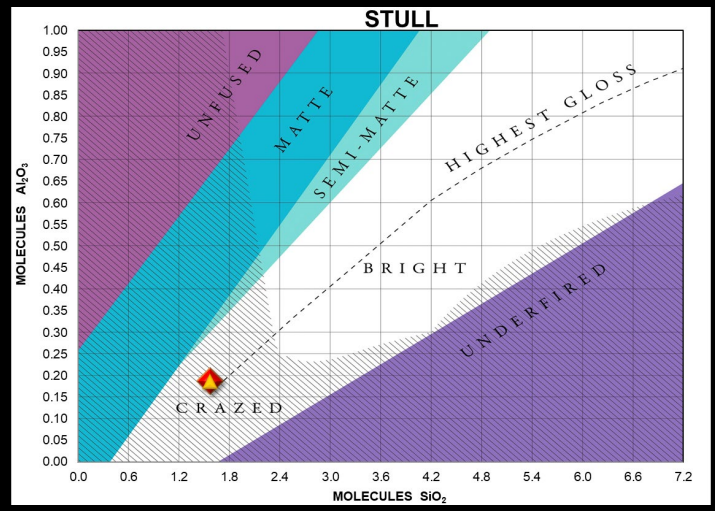
Ceramic Materials Workshop

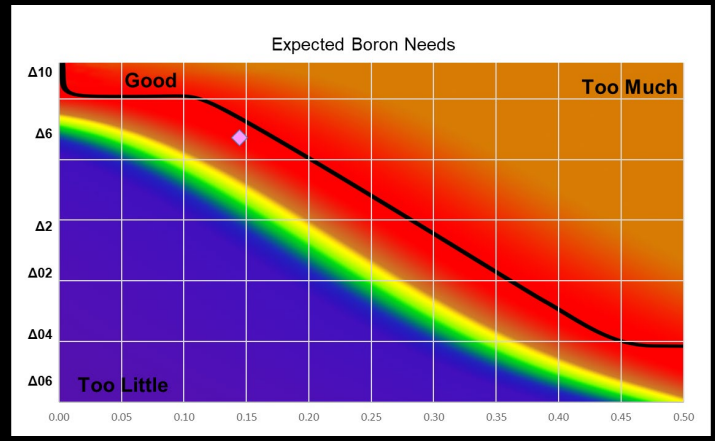
UMF

SiO_2:Al_2O_3 Ratio 8.36 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.78	Collective "Al_2O_3" 0.21	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.21	Li_2O	CuO	SrO	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 8.36 :1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO_2 1.57	Collective "Al_2O_3" 0.19	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.72
B_2O_3 0.14	Al_2O_3 0.19	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.12	ZnO	FeO 0.01
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



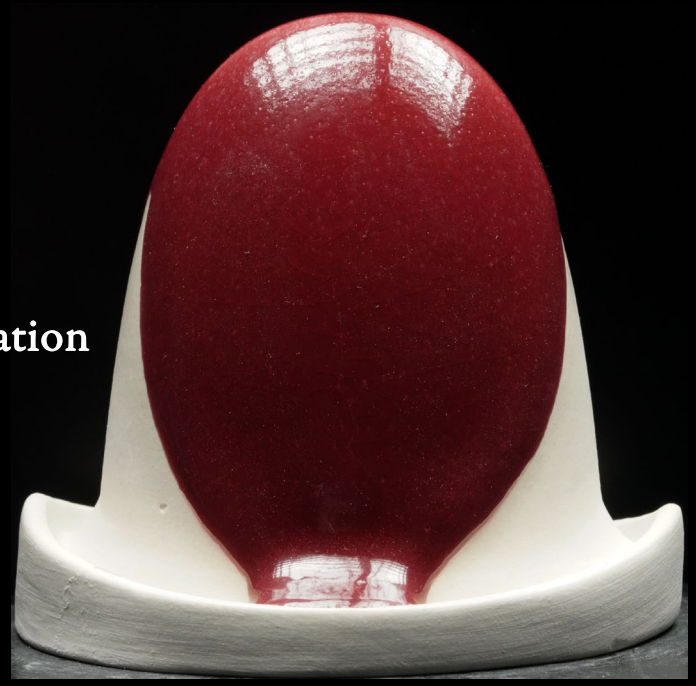
Big Red

Mapping
Kaolin 5
070822-26

G200 EU	21.13
Whiting	24.52
EPK	19.68
Flint	11.51
3134	23.16
Chrome Oxide	0.11
Tin Oxide	8.70
Water	70

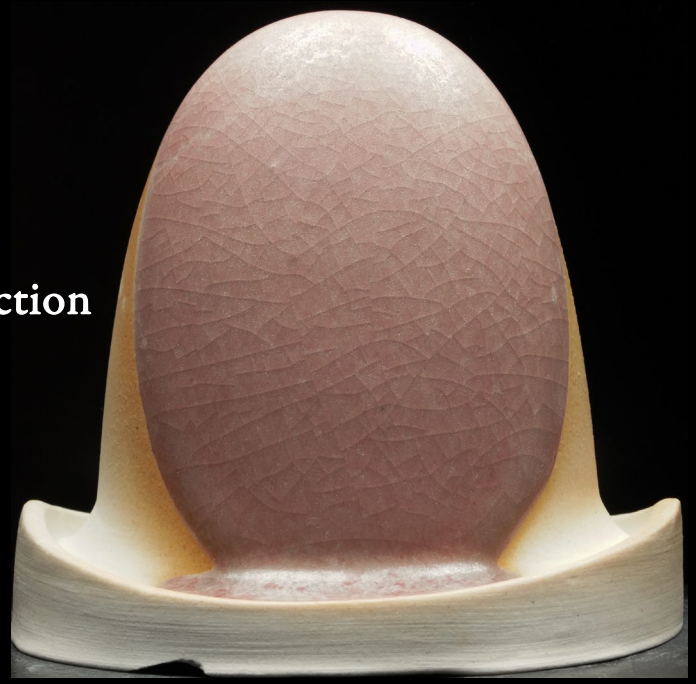
1-3 Second Dip

Oxidation



2-3 Second Dips

Reduction



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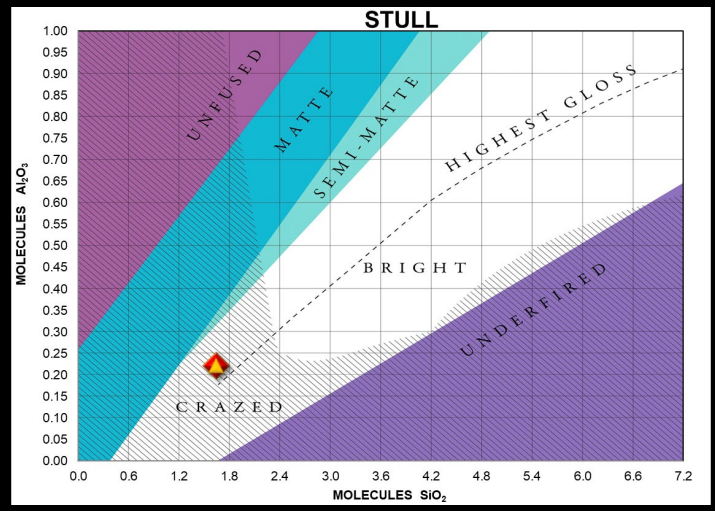
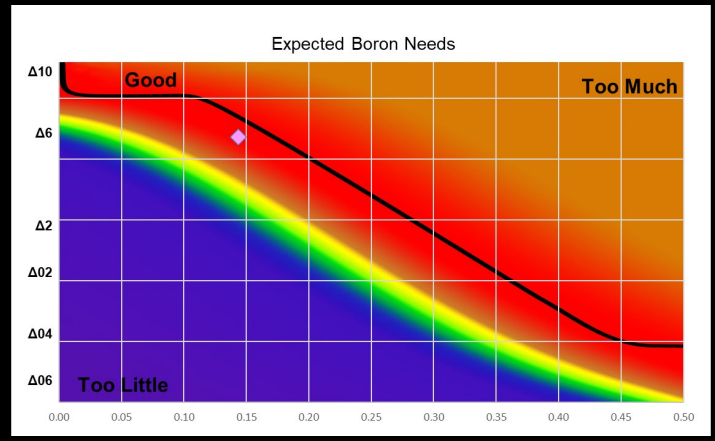
UMF

SiO_2:Al_2O_3 Ratio 7.37 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.87	Collective "Al_2O_3" 0.25	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.25	Li_2O	CuO	SrO	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

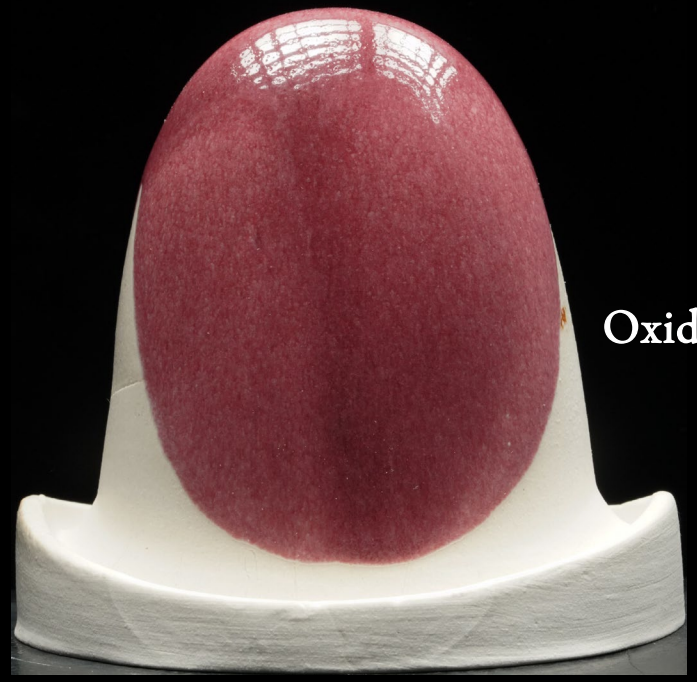
SiO_2:Al_2O_3 Ratio 7.37 :1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO_2 1.64	Collective "Al_2O_3" 0.22	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.72
B_2O_3 0.14	Al_2O_3 0.22	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.12	ZnO	FeO 0.01
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

Mapping
Kaolin 6
070822-27

G200 EU	20.14
Whiting	23.37
EPK	23.44
Flint	10.97
3134	22.08
Chrome Oxide	0.11
Tin Oxide	8.70
Water	70



1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction

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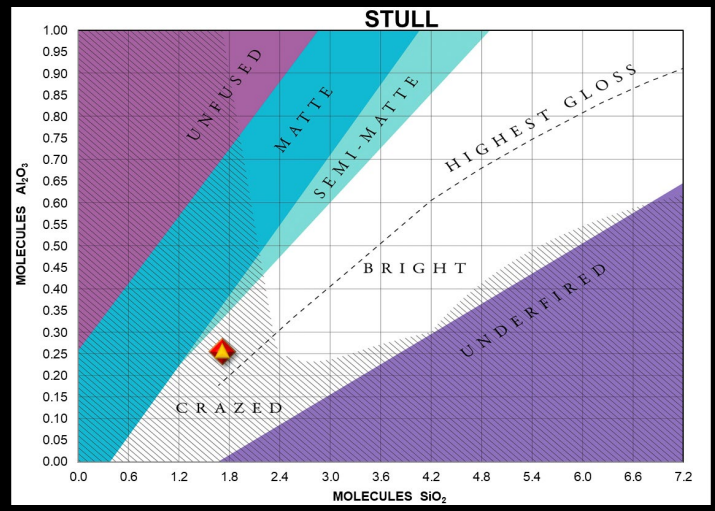
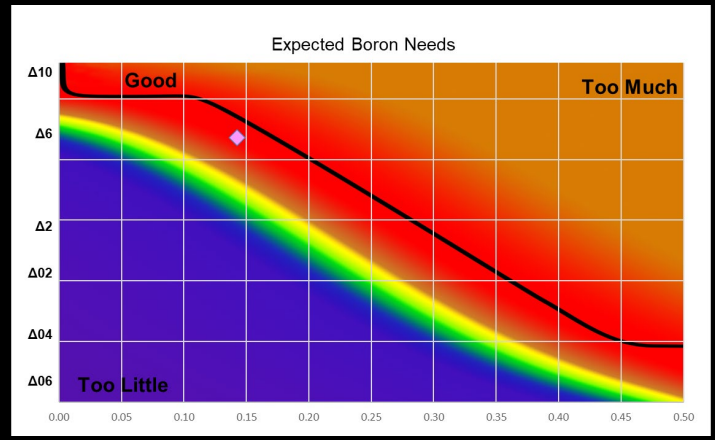
UMF

SiO_2:Al_2O_3 Ratio 6.66 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.97	Collective "Al_2O_3" 0.30	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.81
B_2O_3 0.16	Al_2O_3 0.29	Li_2O	CuO	SrO	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 6.66 :1		Alkali Metals 0.28		Alkaline Earths 0.72	
SiO_2 1.72	Collective "Al_2O_3" 0.26	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.71
B_2O_3 0.14	Al_2O_3 0.26	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.13	ZnO	FeO 0.01
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

Mapping
Kaolin 7
070822-28

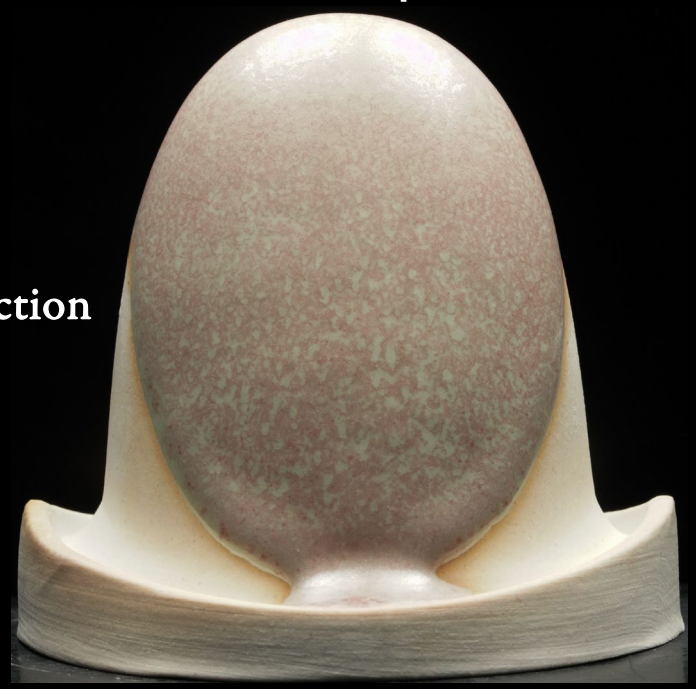
G200 EU	19.24
Whiting	22.32
EPK	26.87
Flint	10.48
3134	21.09
Chrome Oxide	0.11
Tin Oxide	8.70
Water	80

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction



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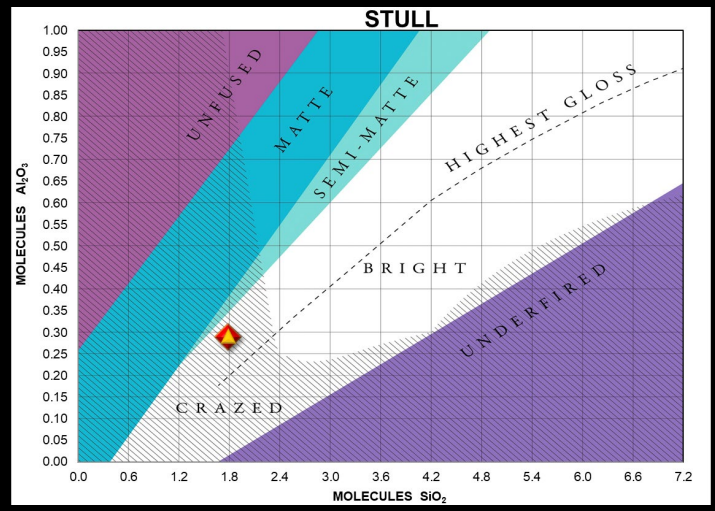
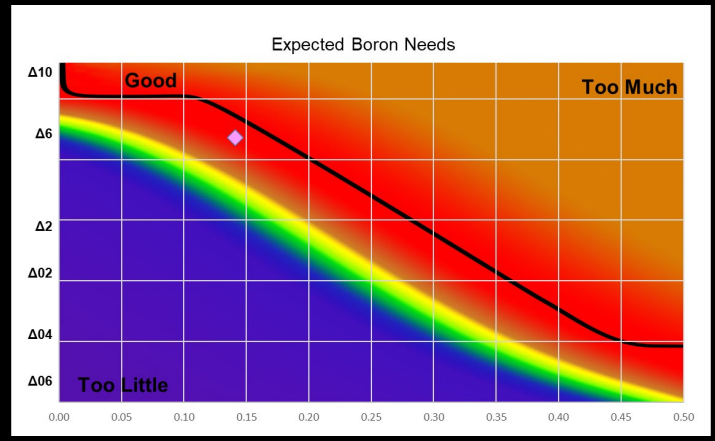
UMF

SiO_2:Al_2O_3 Ratio 6.12 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 2.06	Collective "Al_2O_3" 0.34	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.81
B_2O_3 0.16	Al_2O_3 0.33	Li_2O	CuO	SrO	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 6.12 :1		Alkali Metals 0.28		Alkaline Earths 0.72	
SiO_2 1.79	Collective "Al_2O_3" 0.29	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.71
B_2O_3 0.14	Al_2O_3 0.29	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.13	ZnO	FeO 0.01
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

Mapping
Kaolin 8
070822-29

G200 EU	18.41
Whiting	21.36
EPK	30.01
Flint	10.03
3134	20.18
Chrome Oxide	0.11
Tin Oxide	8.70
Water	80

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction

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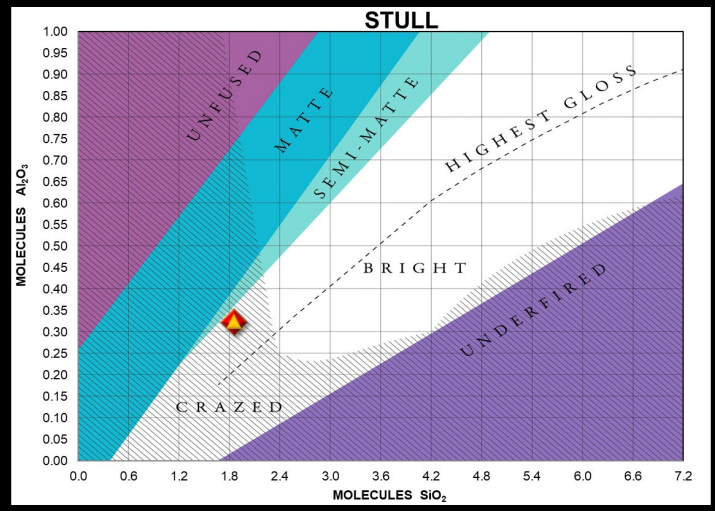
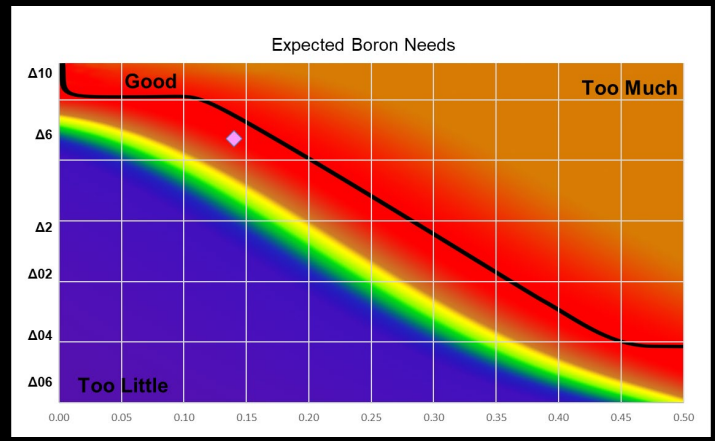
UMF

SiO_2:Al_2O_3 Ratio 5.70 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 2.15	Collective "Al_2O_3" 0.38	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.81
B_2O_3 0.16	Al_2O_3 0.37	Li_2O	CuO	SrO	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 5.70 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO_2 1.86	Collective "Al_2O_3" 0.33	Na_2O 0.09	K_2O 0.05	MgO 0.00	CaO 0.70
B_2O_3 0.14	Al_2O_3 0.32	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.14	ZnO	FeO 0.01
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

Mapping
Silica 2
070822-30

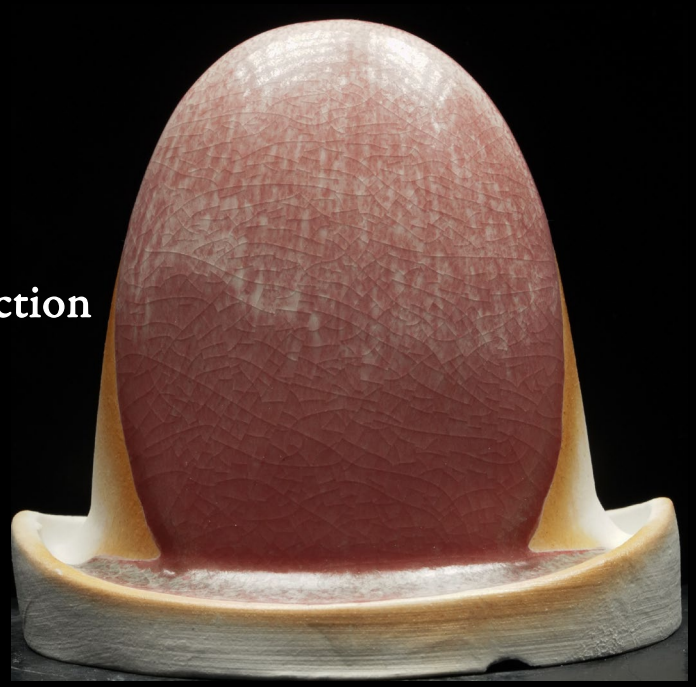
G200 EU	25.54
Whiting	29.63
EPK	12.20
Flint	4.64
3134	27.99
Chrome Oxide	0.11
Tin Oxide	8.70
Water	60

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction



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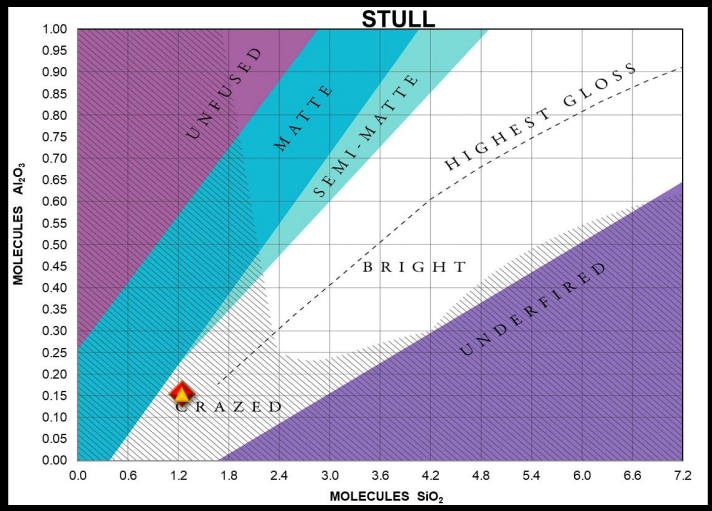
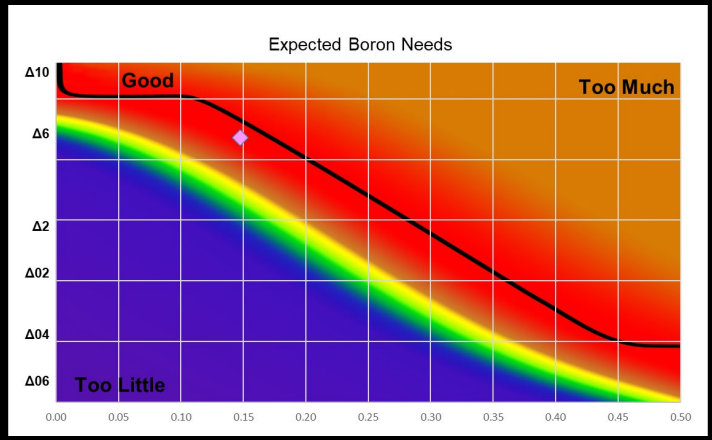
UMF

SiO_2:Al_2O_3 Ratio 8.03 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.39	Collective "Al_2O_3" 0.17	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.17	Li_2O	CuO	SrO	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 8.03 :1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO_2 1.24	Collective "Al_2O_3" 0.15	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.74
B_2O_3 0.15	Al_2O_3 0.15	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.10	ZnO	FeO 0.00
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

Mapping
Silica 3
070822-31

G200 EU	24.40
Whiting	28.31
EPK	11.66
Flint	8.86
3134	26.75
Chrome Oxide	0.11
Tin Oxide	8.70
Water	60

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction

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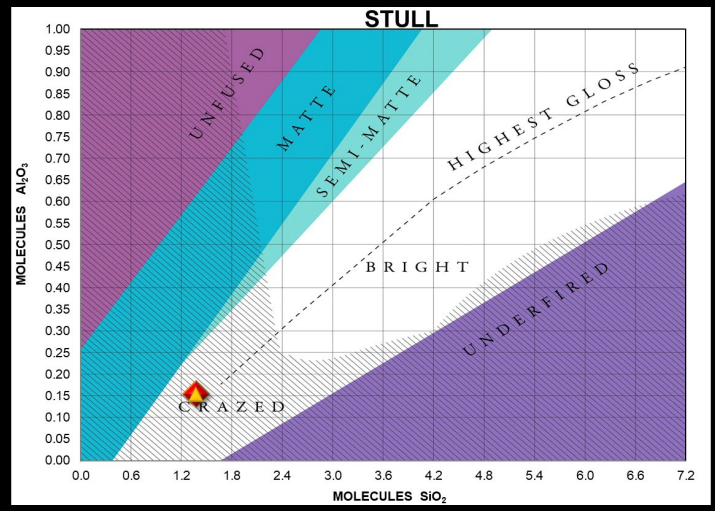
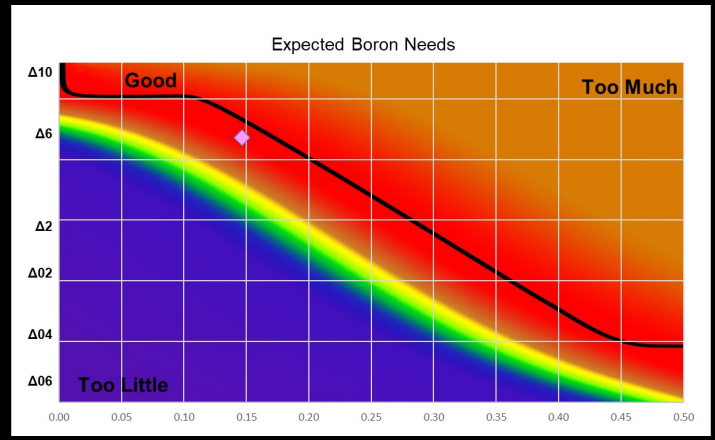
UMF

SiO_2:Al_2O_3 Ratio 8.89 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.54	Collective "Al_2O_3" 0.17	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.17	Li_2O	CuO	SrO	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 8.89 :1		Alkali Metals 0.26		Alkaline Earths 0.74	
SiO_2 1.37	Collective "Al_2O_3" 0.15	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.73
B_2O_3 0.15	Al_2O_3 0.15	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.11	ZnO	FeO 0.00
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

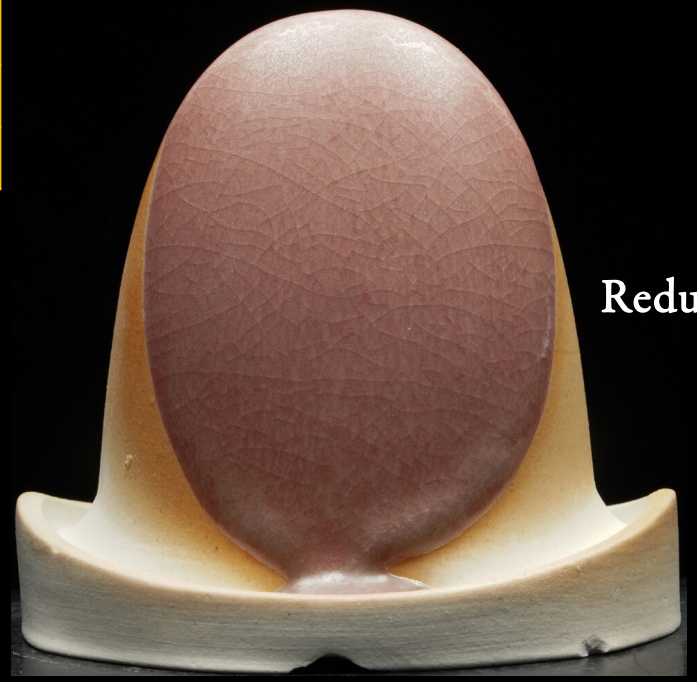
Mapping
Silica 5
070822-32

G200 EU	22.42
Whiting	26.01
EPK	10.71
Flint	16.28
3134	24.57
Chrome Oxide	0.11
Tin Oxide	8.70
Water	65

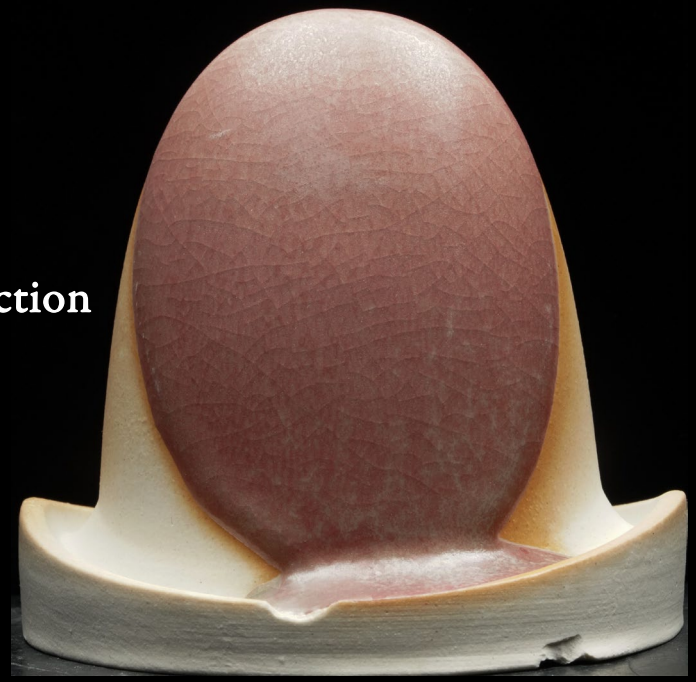
1-3 Second Dip

Oxidation

2-3 Second Dips



Reduction



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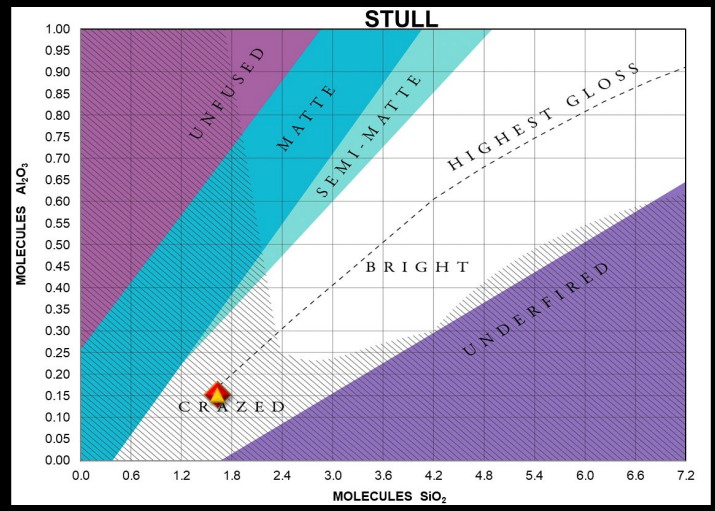
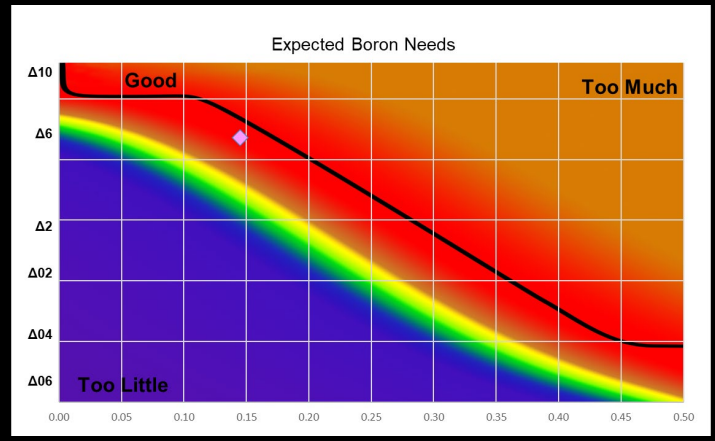
UMF

SiO_2:Al_2O_3 Ratio 10.60 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 1.84	Collective "Al_2O_3" 0.17	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.17	Li_2O	CuO	SrO	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 10.60 :1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO_2 1.63	Collective "Al_2O_3" 0.15	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.72
B_2O_3 0.15	Al_2O_3 0.15	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.12	ZnO	FeO 0.00
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

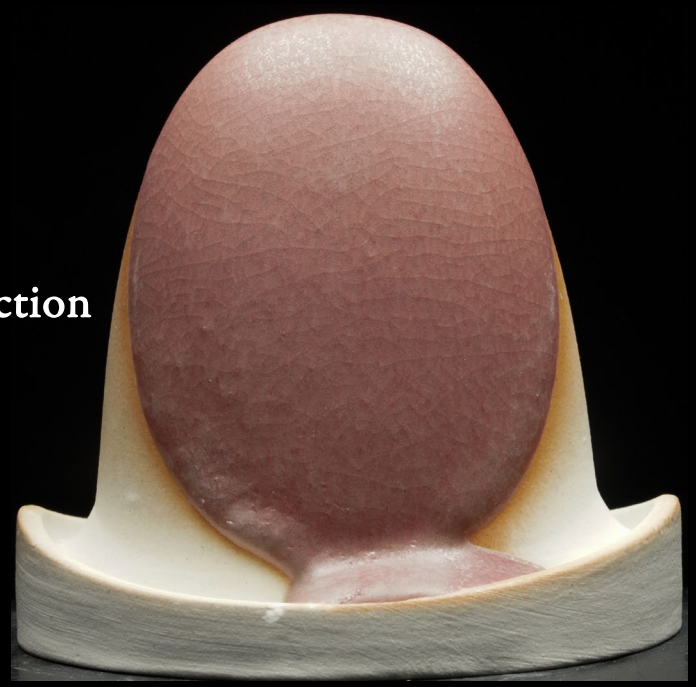
Mapping
Silica 6
070822-33

G200 EU	21.54
Whiting	24.99
EPK	10.29
Flint	19.56
3134	23.61
Chrome Oxide	0.11
Tin Oxide	8.70
Water	65

1-3 Second Dip

Oxidation

2-3 Second Dips



Reduction

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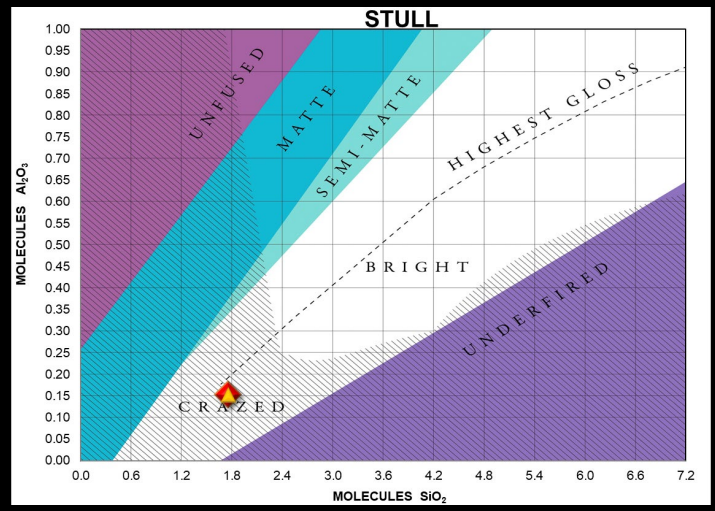
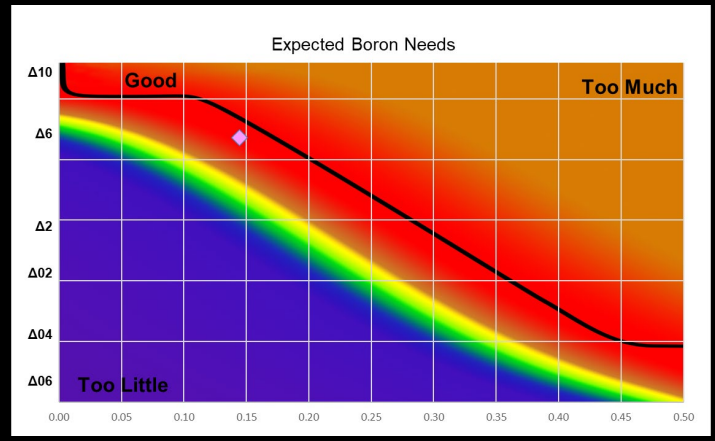
UMF

SiO_2:Al_2O_3 Ratio 11.45 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 2.00	Collective "Al_2O_3" 0.17	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.17	Li_2O	CuO	SrO	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 11.45 :1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO_2 1.76	Collective "Al_2O_3" 0.15	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.72
B_2O_3 0.14	Al_2O_3 0.15	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.12	ZnO	FeO 0.00
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Big Red

Mapping
Silica-7
070822-34

G200 EU	20.73
Whiting	24.05
EPK	9.91
Flint	22.59
3134	22.72
Chrome Oxide	0.11
Tin Oxide	8.70
Water	65

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction

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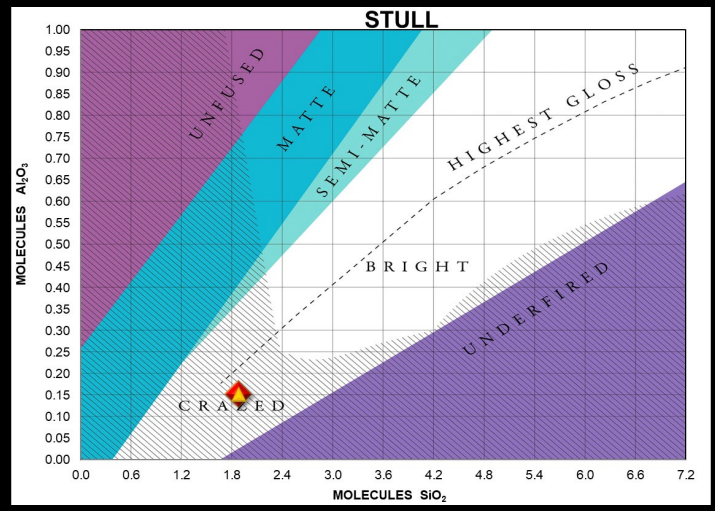
UMF

SiO_2:Al_2O_3 Ratio 12.29 :1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO_2 2.15	Collective "Al_2O_3" 0.17	Na_2O 0.11	K_2O 0.06	MgO 0.00	CaO 0.82
B_2O_3 0.16	Al_2O_3 0.17	Li_2O	CuO	SrO	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 12.29 :1		Alkali Metals 0.28		Alkaline Earths 0.72	
SiO_2 1.88	Collective "Al_2O_3" 0.15	Na_2O 0.10	K_2O 0.05	MgO 0.00	CaO 0.72
B_2O_3 0.14	Al_2O_3 0.15	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2 0.13	ZnO	FeO 0.00
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO