Tangerine-Δ6

Lab 3-Sili-Closeness

Ceramic
Materials
Workshop

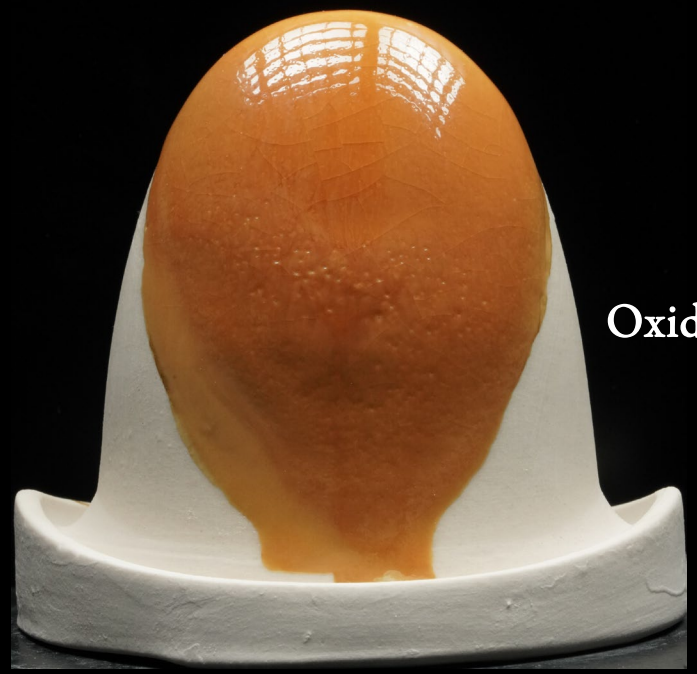
Tangerine

Original

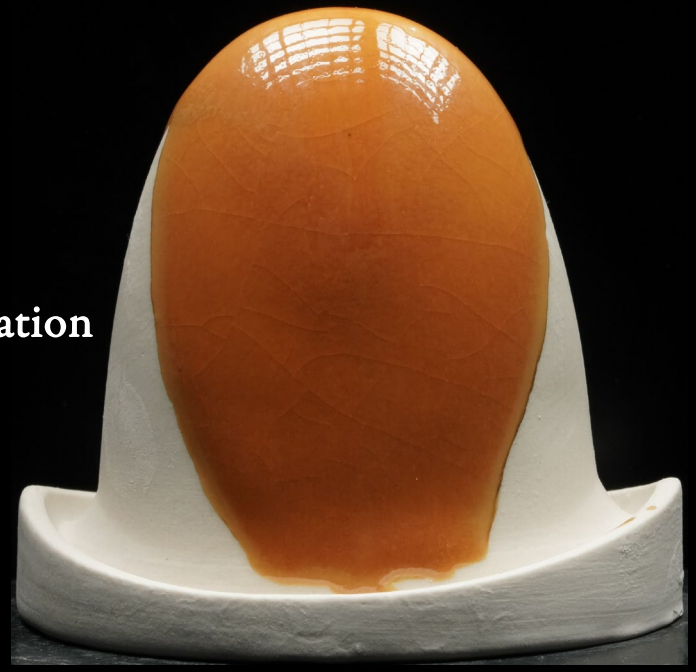
070922-1

Neph Sy	42.25
Whiting	17.13
Zinc Oxide	11.42
EPK	7.99
Flint	21.20
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

Oxidation



1-3 Second Dip



2-3 Second Dips

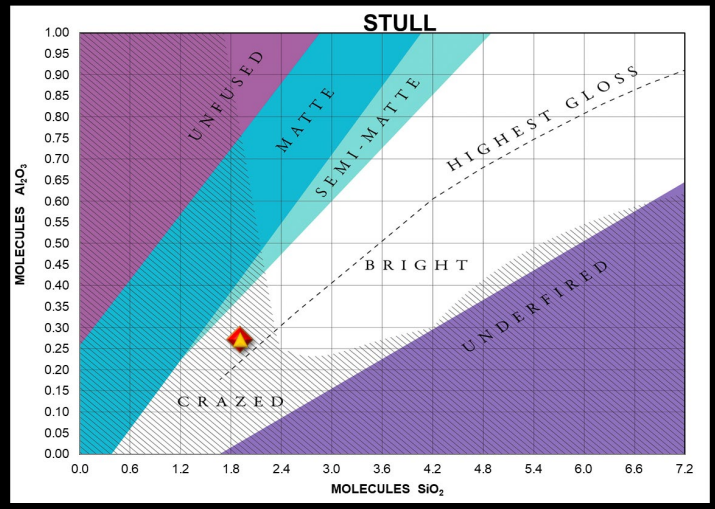
Reduction

ceramicmaterialsworkshop.com

Ceramic Materials Workshop

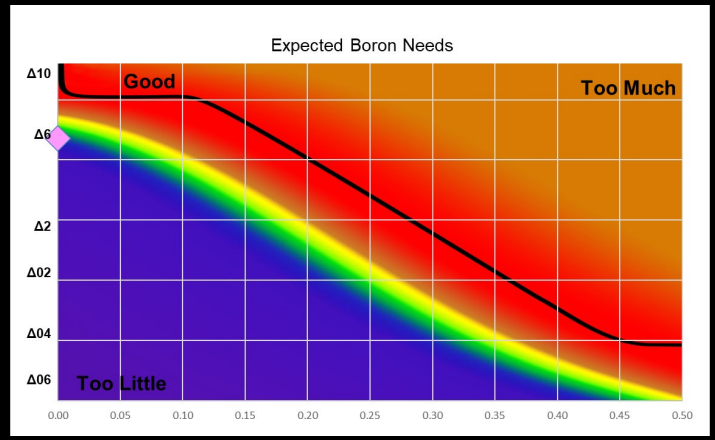
UMF

SiO_2:Al_2O_3 Ratio 7.03 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 2.09	Collective "Al_2O_3" 0.30	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.30	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.34	FeO 0.00
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO

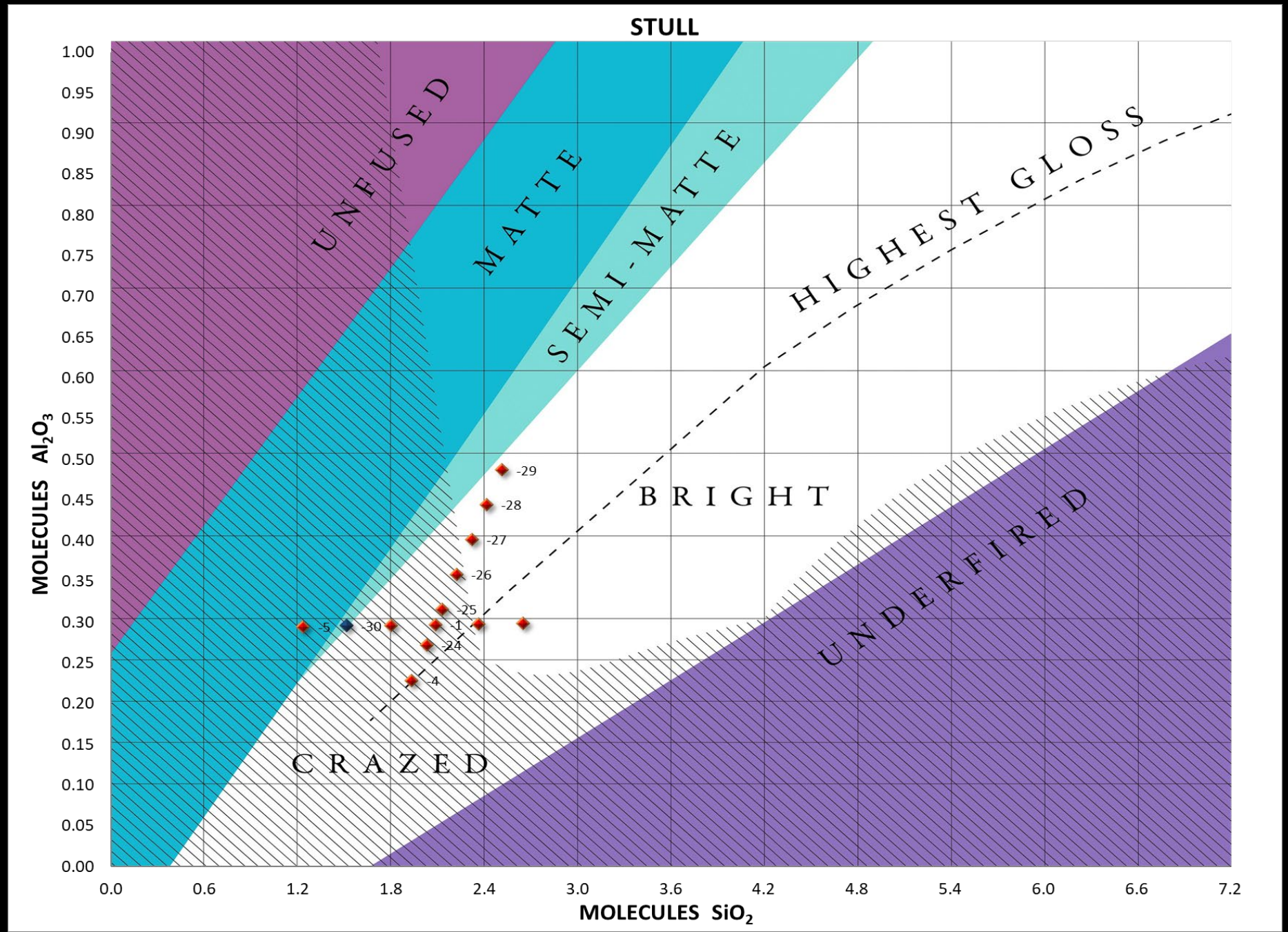


EUMF

SiO_2:Al_2O_3 Ratio 7.03 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 1.91	Collective "Al_2O_3" 0.27	Na_2O 0.16	K_2O 0.05	MgO 0.00	CaO 0.39
B_2O_3	Al_2O_3 0.27	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.32	FeO 0.09
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO

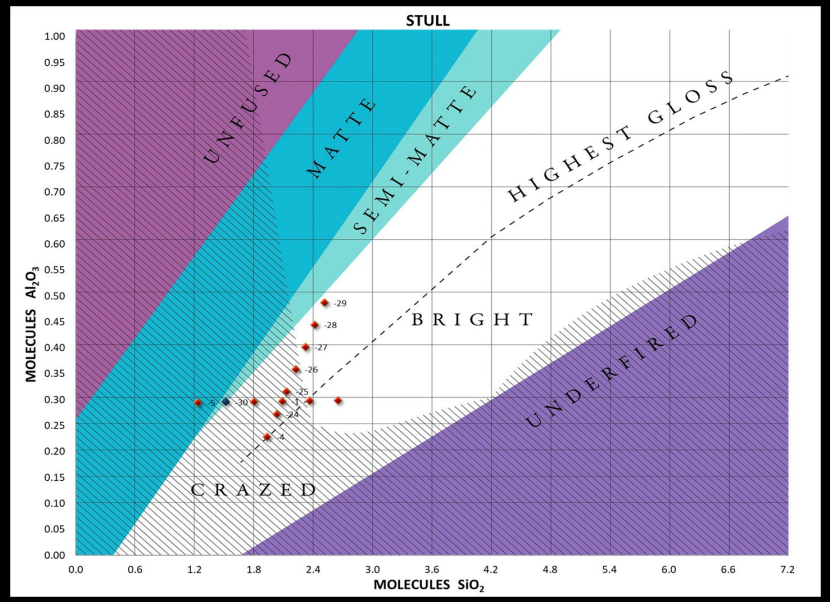


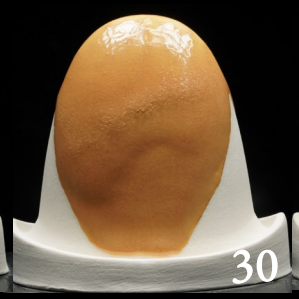
UMF

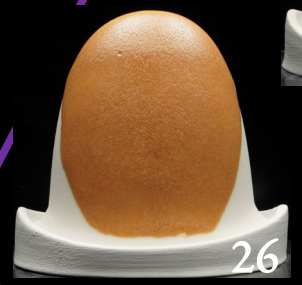


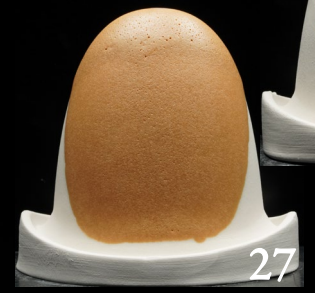
Ceramic Materials Workshop

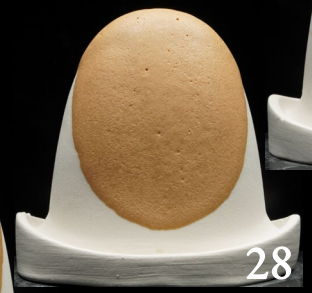
Full Test-Oxidation-1-3 Second Dip

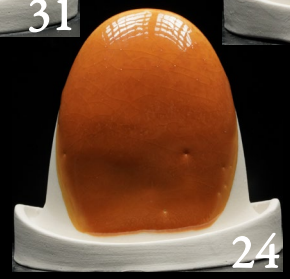












Indicates correct position of Alumina samples

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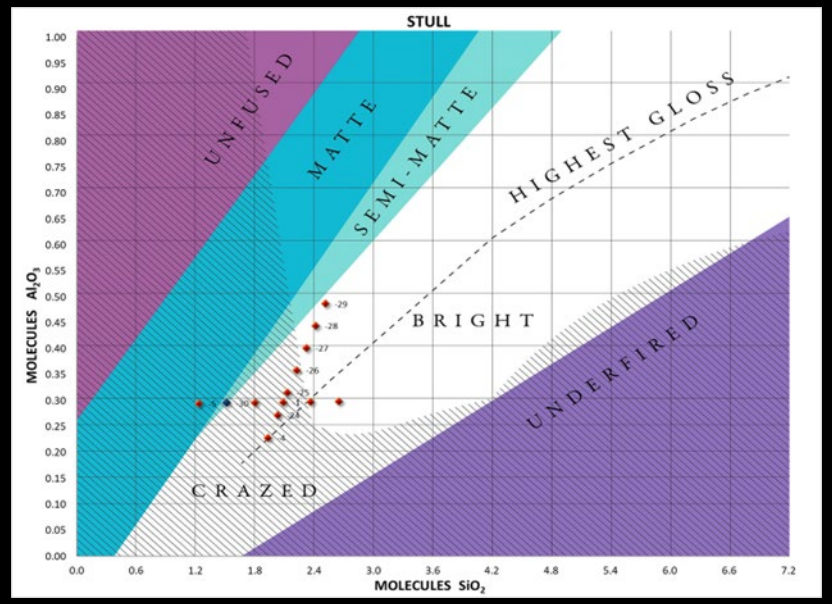
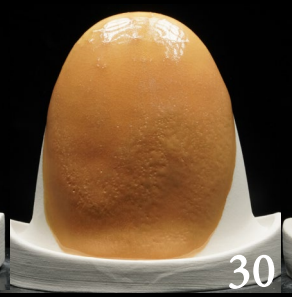
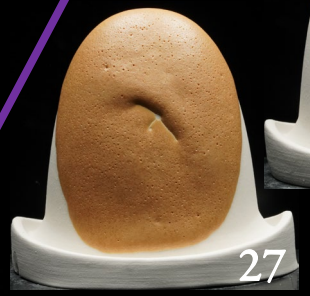
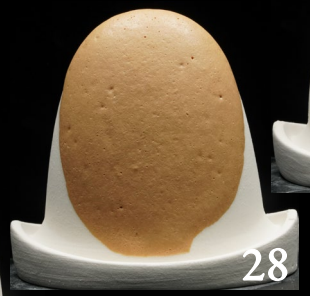
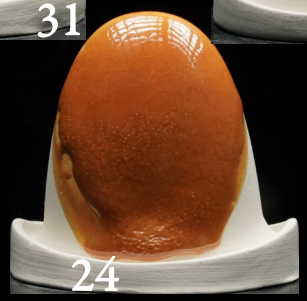
Full Test-Oxidation-2-3 Second Dips











Indicates correct position of Alumina samples

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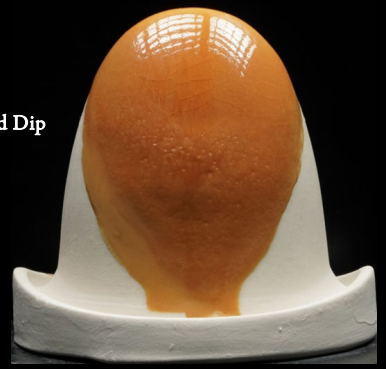
Silica Variations-Oxidation


071122-5


071122-30


071122-31

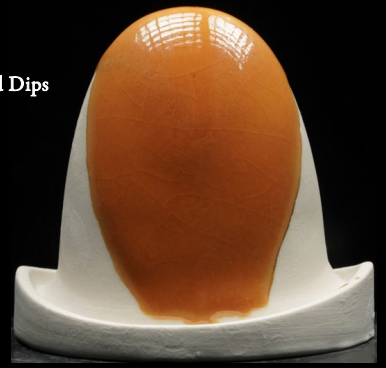
1-3 Second Dip

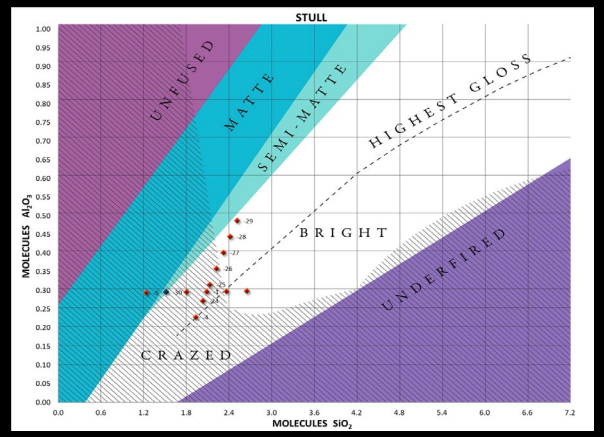

071122-1


070922-32


070922-33

2-3 Second Dips





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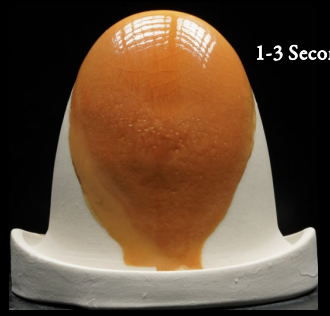
Alumina Variations-Oxidation

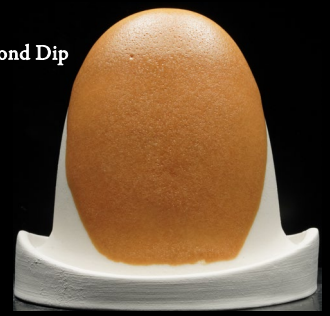
1-3 Second Dip


071122-4


071122-24

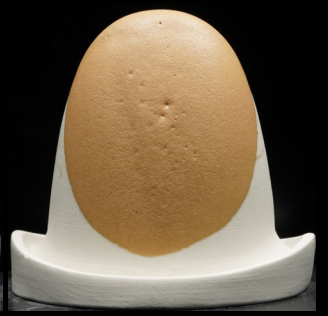

071122-25


071122-1

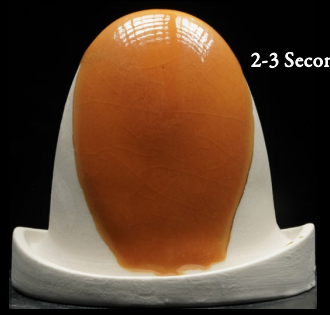

071122-26

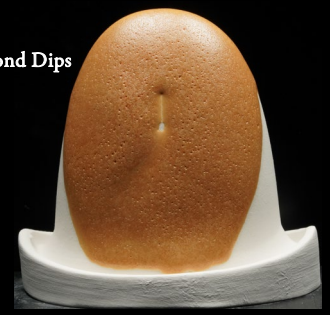

071122-27

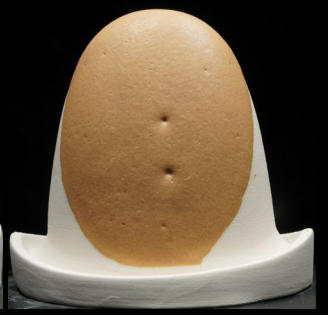

071122-28

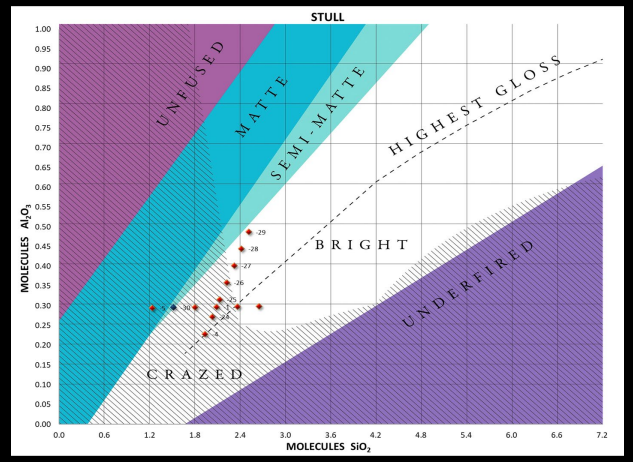

071122-29

2-3 Second Dips









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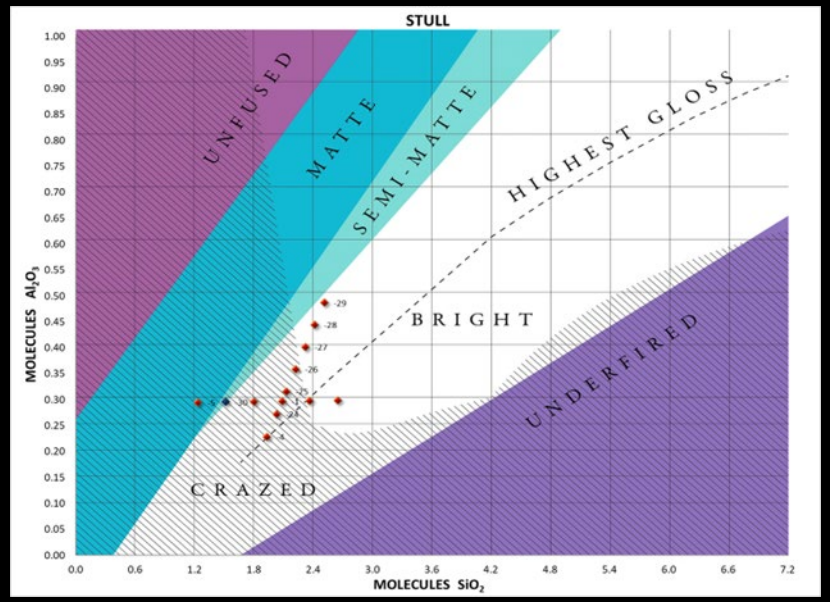
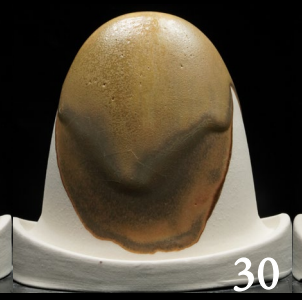
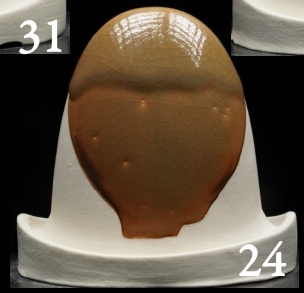
Full Test-Reduction-1-3 Second Dip







Indicates correct position of Alumina samples

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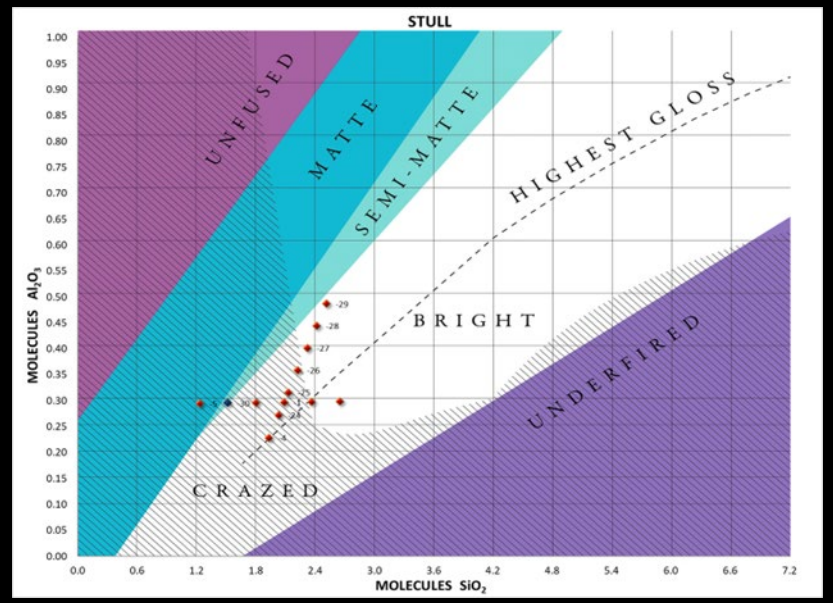
Full Test-Reduction-2-3 Second Dips



Indicates correct position of Alumina samples

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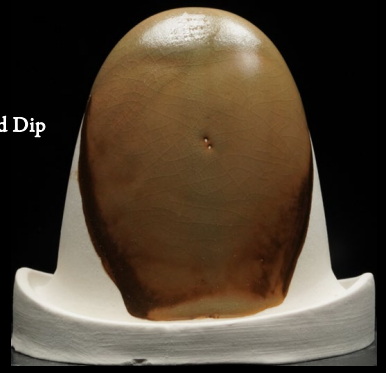
Silica Variations-Reduction

1-3 Second Dip


071122-5


071122-30

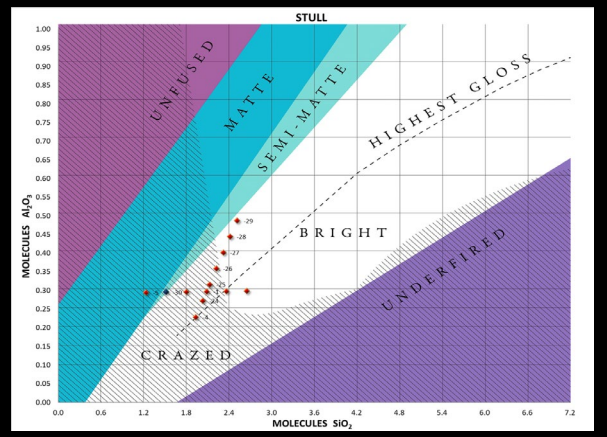

071122-31


071122-1


071122-32


071122-33

2-3 Second Dips



Ceramic Materials Workshop

Alumina Variations-Reduction

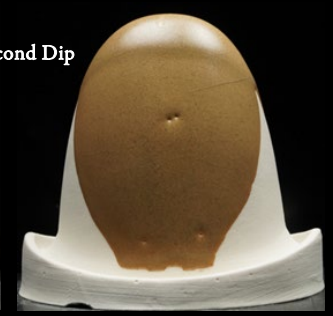
1-3 Second Dip


071122-4


071122-24


071122-25


071122-1

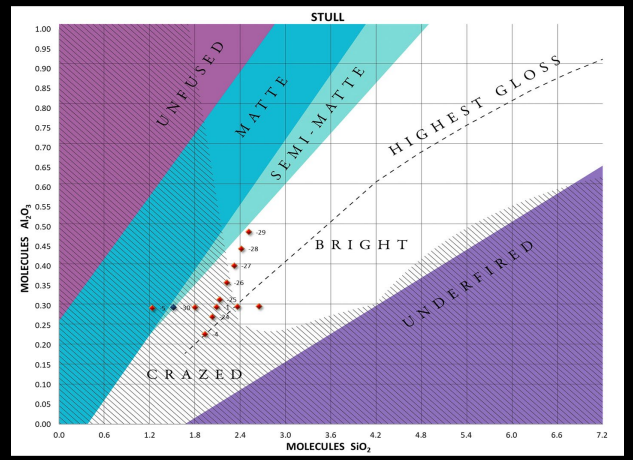

071122-26


071122-27


071122-28


071122-29

2-3 Second Dips



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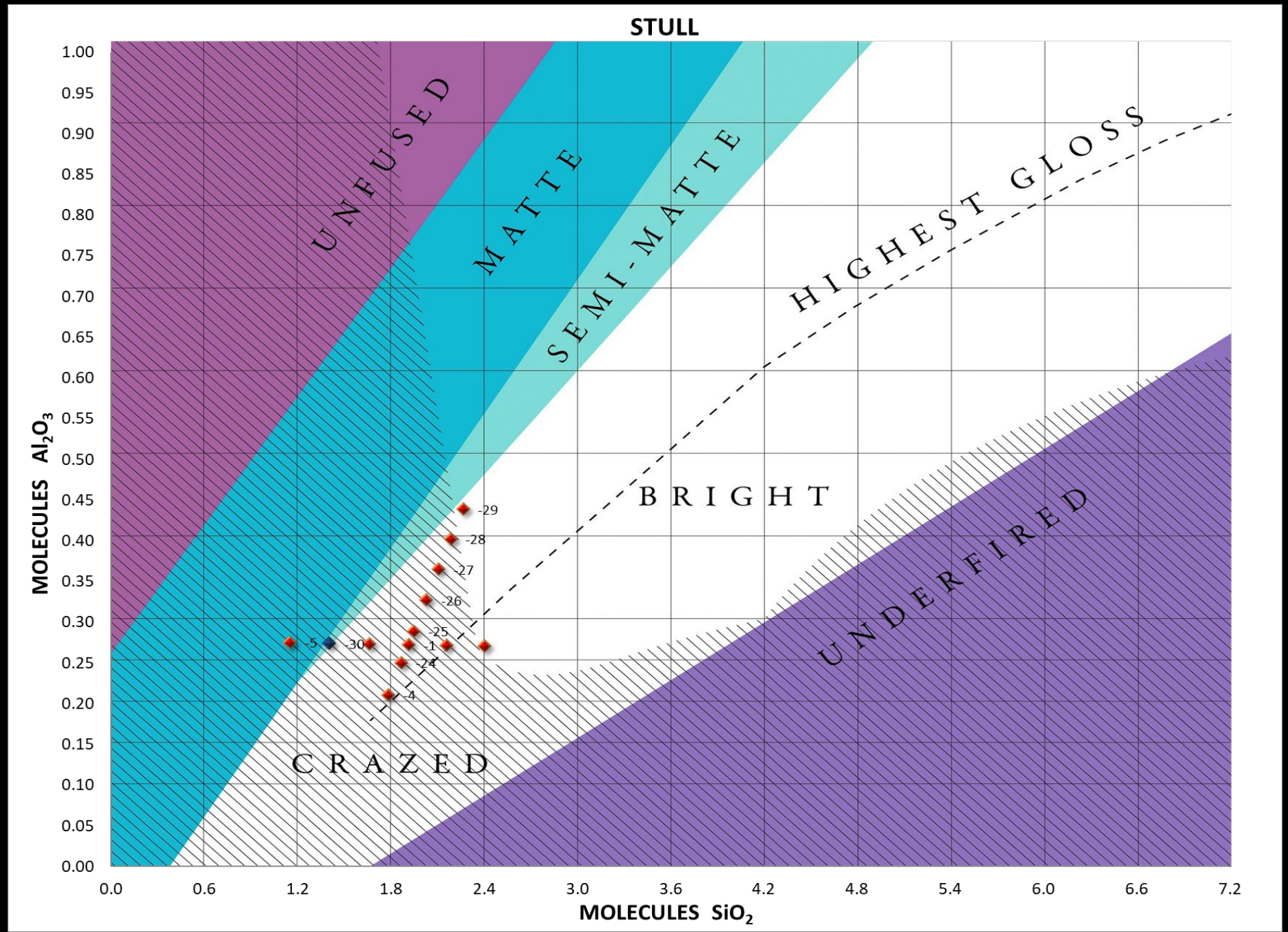
EUMF



Ceramic Materials Workshop

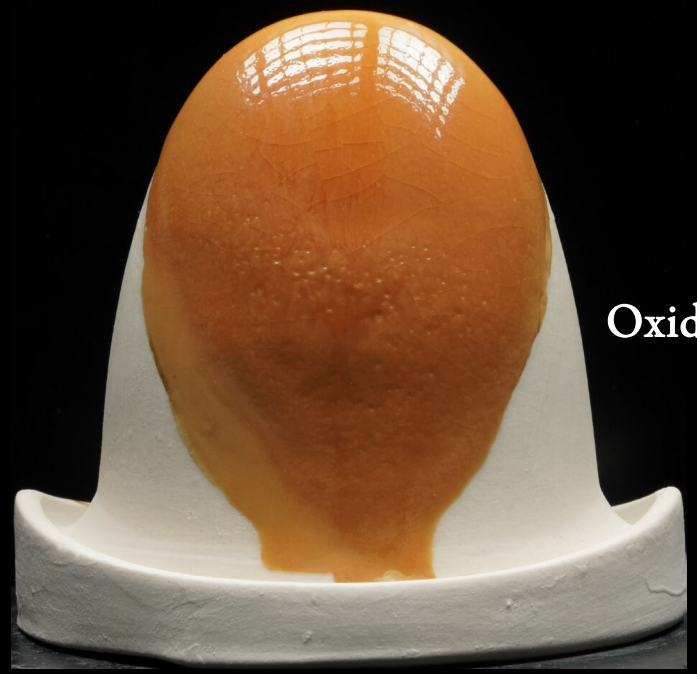
Tangerine

Original

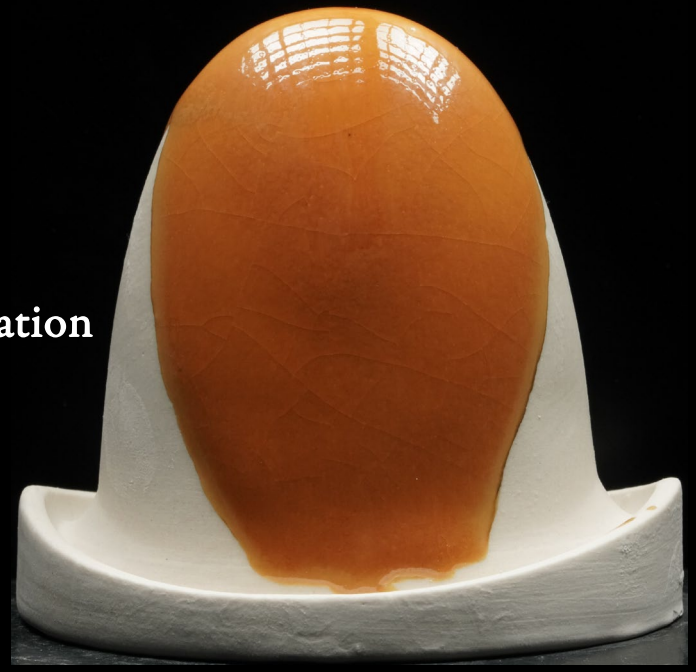
070922-1

Neph Sy	42.25
Whiting	17.13
Zinc Oxide	11.42
EPK	7.99
Flint	21.20
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

Oxidation



1-3 Second Dip



2-3 Second Dips

Reduction

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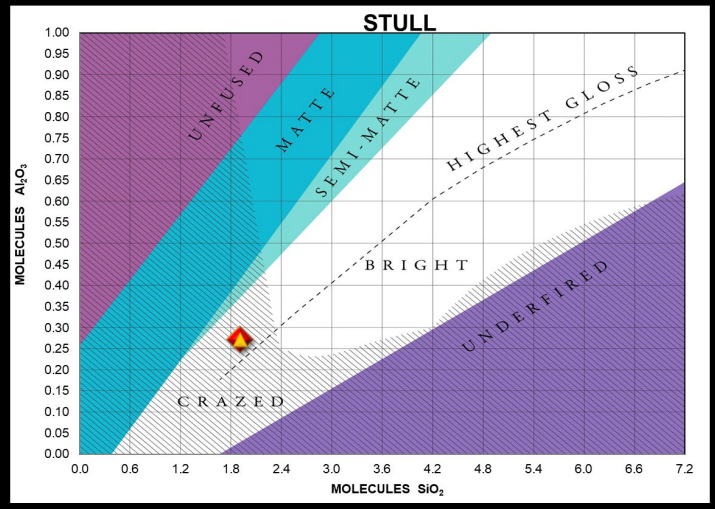
Ceramic Materials Workshop

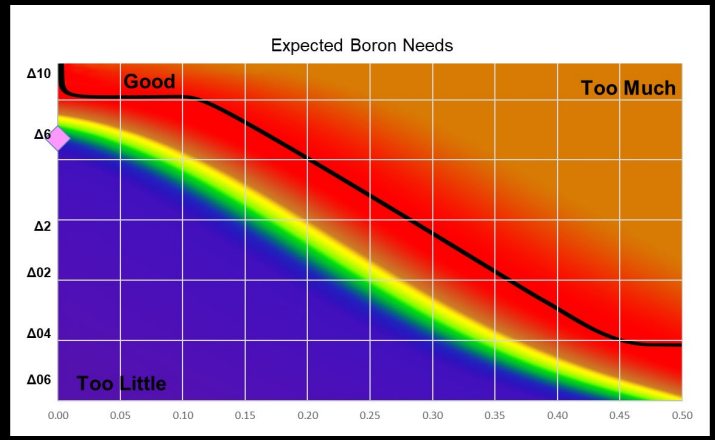
UMF

SiO_2:Al_2O_3 Ratio 7.03 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 2.09	Collective "Al_2O_3" 0.30	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.30	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.34	FeO 0.00
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 7.03 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 1.91	Collective "Al_2O_3" 0.27	Na_2O 0.16	K_2O 0.05	MgO 0.00	CaO 0.39
B_2O_3	Al_2O_3 0.27	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.32	FeO 0.09
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Tangerine

w/o Kaolin

071122-4

Neph Sy	45.93
Whiting	18.62
Zinc Oxide	12.41
EPK	
Flint	23.04
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

Oxidation

1-3 Second Dip

2-3 Second Dips

Reduction

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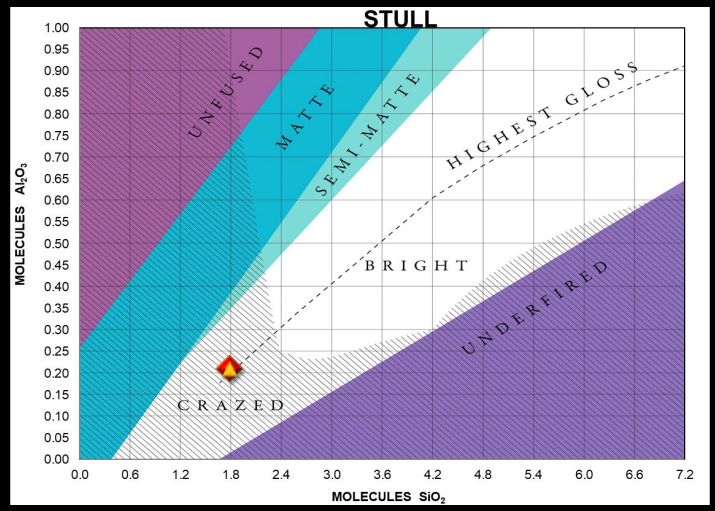
Ceramic Materials Workshop

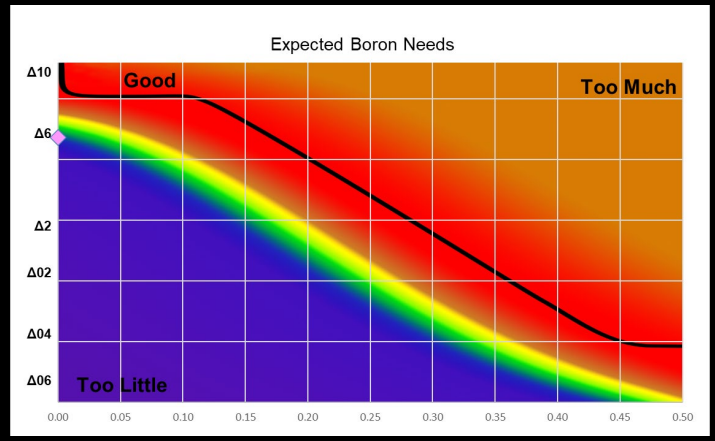
UMF

SiO_2:Al_2O_3 Ratio 8.45 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 1.93	Collective "Al_2O_3" 0.23	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.23	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.35	FeO 0.00
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 8.45 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 1.78	Collective "Al_2O_3" 0.21	Na_2O 0.16	K_2O 0.04	MgO 0.00	CaO 0.40
B_2O_3	Al_2O_3 0.21	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.32	FeO 0.08
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO

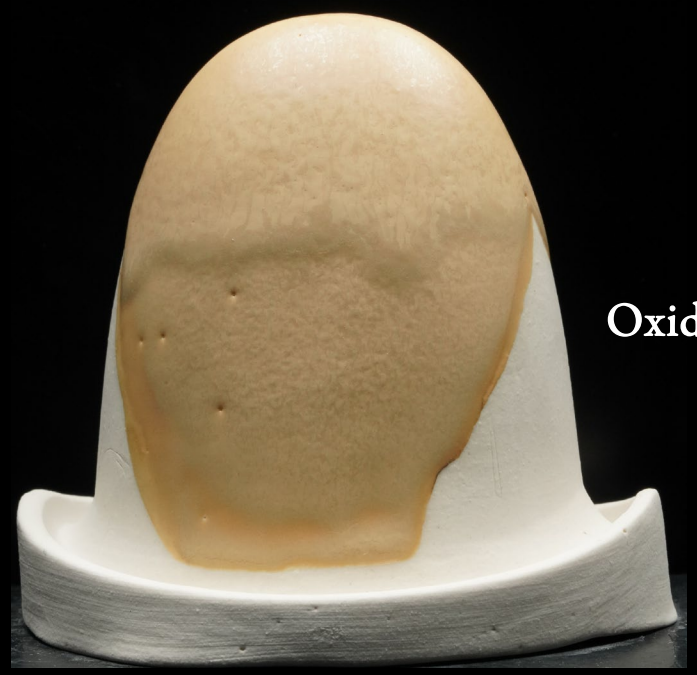


Tangerine

w/o Silica

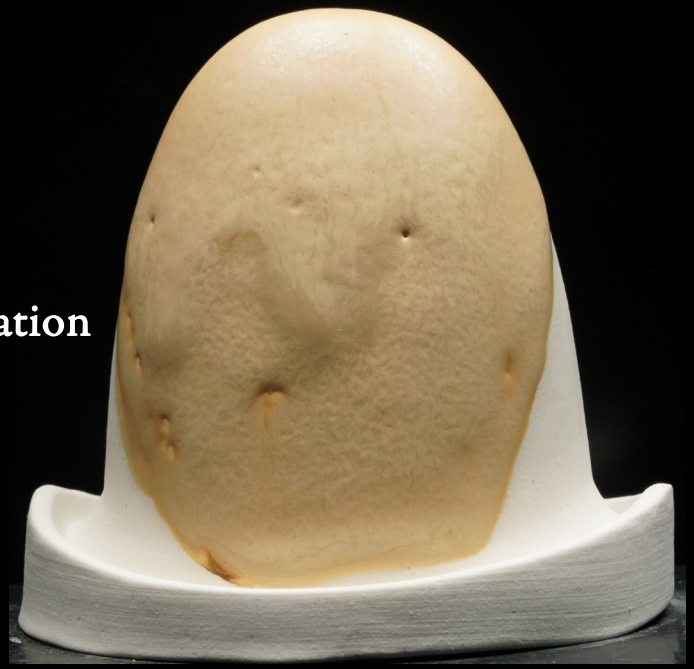
071122-5

Neph Sy	53.62
Whiting	21.74
Zinc Oxide	14.49
EPK	10.14
Flint	
Chrome Oxide	0.21
Red Iron Oxide	1.84
Water	60



1-3 Second Dip

Oxidation



2-3 Second Dips

Reduction

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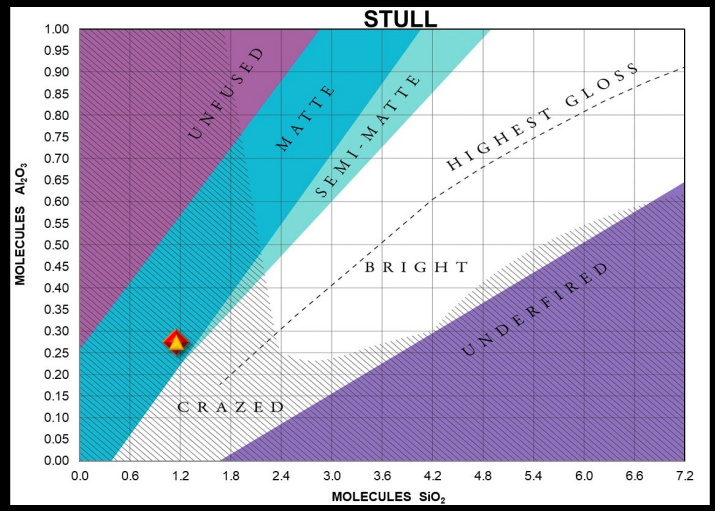
Ceramic Materials Workshop

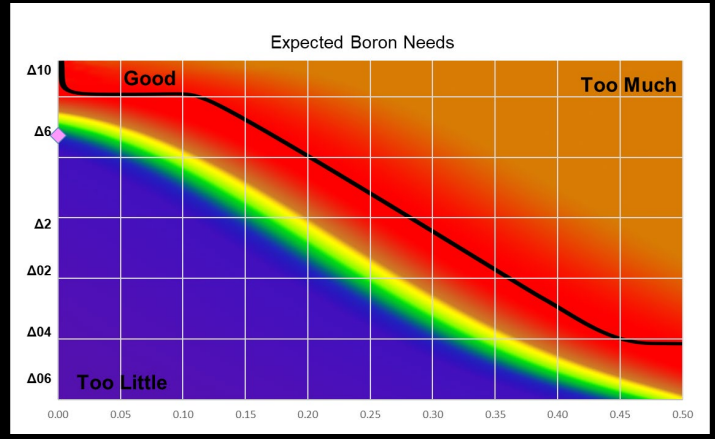
UMF

SiO_2:Al_2O_3 Ratio 4.19 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 1.23	Collective "Al_2O_3" 0.29	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.29	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.35	FeO 0.00
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 4.19 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO_2 1.15	Collective "Al_2O_3" 0.28	Na_2O 0.16	K_2O 0.05	MgO 0.00	CaO 0.40
B_2O_3	Al_2O_3 0.27	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.32	FeO 0.07
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Tangerine

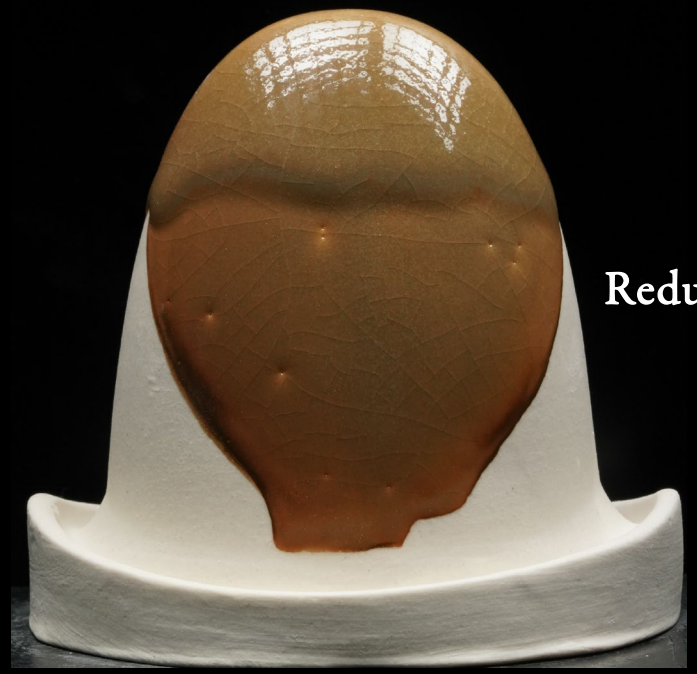
Mapping
Kaolin 2
070922-24

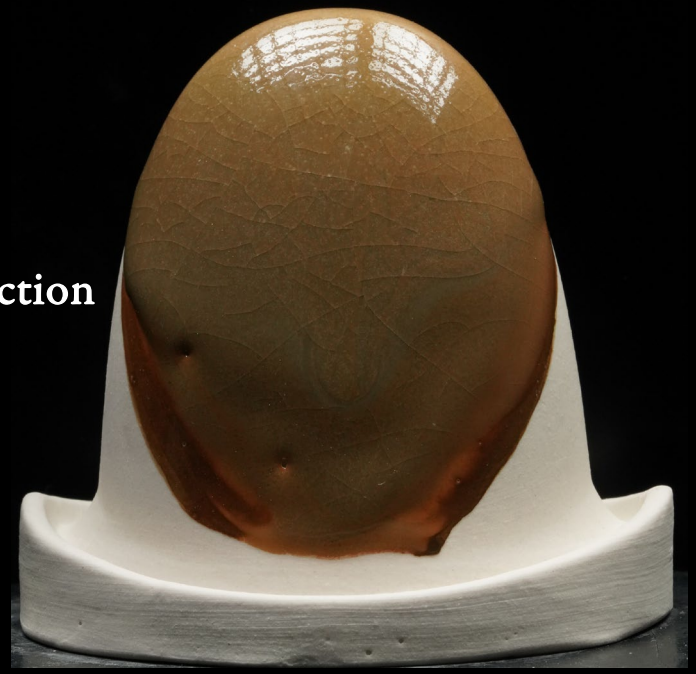
Neph Sy	43.51
Whiting	17.64
Zinc Oxide	11.76
EPK	5.26
Flint	21.83
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

1-3 Second Dip

Oxidation

2-3 Second Dips





Reduction

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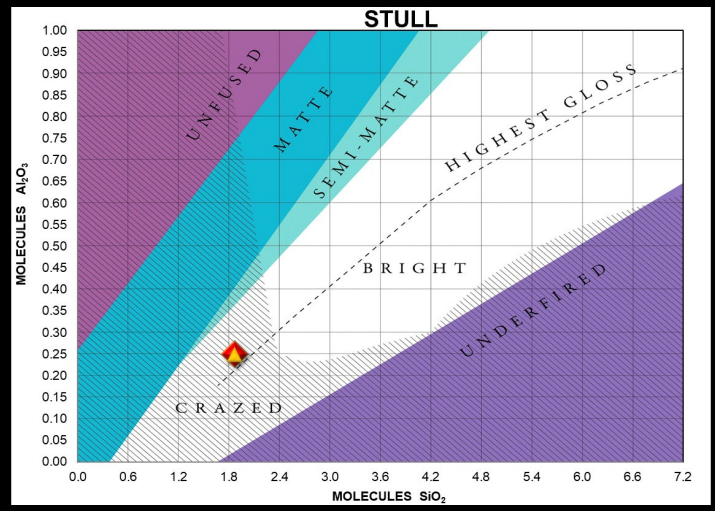
Ceramic Materials Workshop

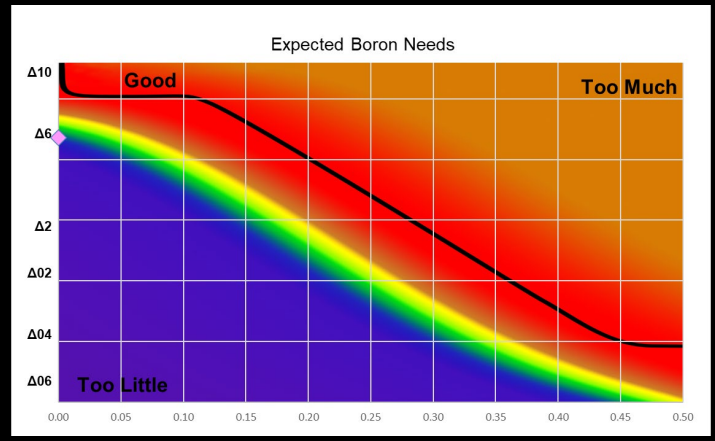
UMF

SiO_2:Al_2O_3 Ratio 7.46 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 2.03	Collective "Al_2O_3" 0.27	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.27	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.35	FeO 0.00
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 7.46 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 1.87	Collective "Al_2O_3" 0.25	Na_2O 0.16	K_2O 0.05	MgO 0.00	CaO 0.39
B_2O_3	Al_2O_3 0.25	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.32	FeO 0.08
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Tangerine

Mapping
Kaolin 3
070922-25

Neph Sy	41.34
Whiting	16.76
Zinc Oxide	11.17
EPK	9.99
Flint	20.74
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

1-3 Second Dip

Oxidation

2-3 Second Dips

Reduction

Ceramic Materials Workshop

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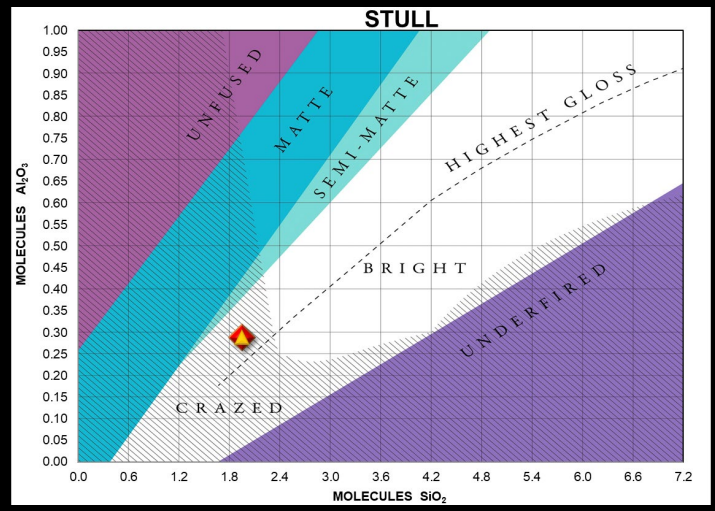
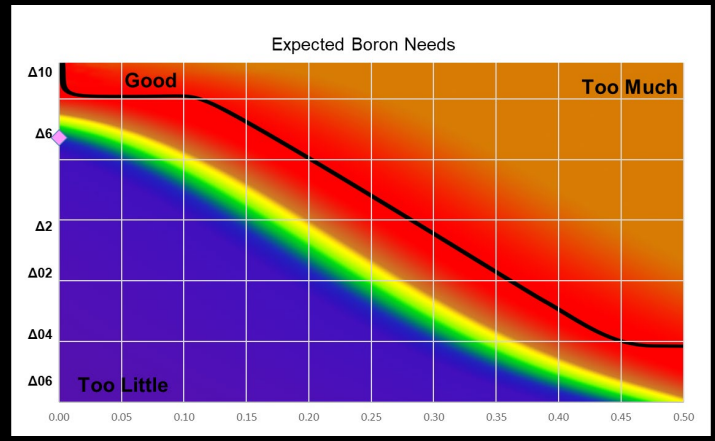
UMF

SiO_2:Al_2O_3 Ratio 6.74 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 2.13	Collective "Al_2O_3" 0.32	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.31	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.34	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 6.74 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 1.95	Collective "Al_2O_3" 0.29	Na_2O 0.16	K_2O 0.05	MgO 0.00	CaO 0.39
B_2O_3	Al_2O_3 0.29	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.32	FeO 0.09
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



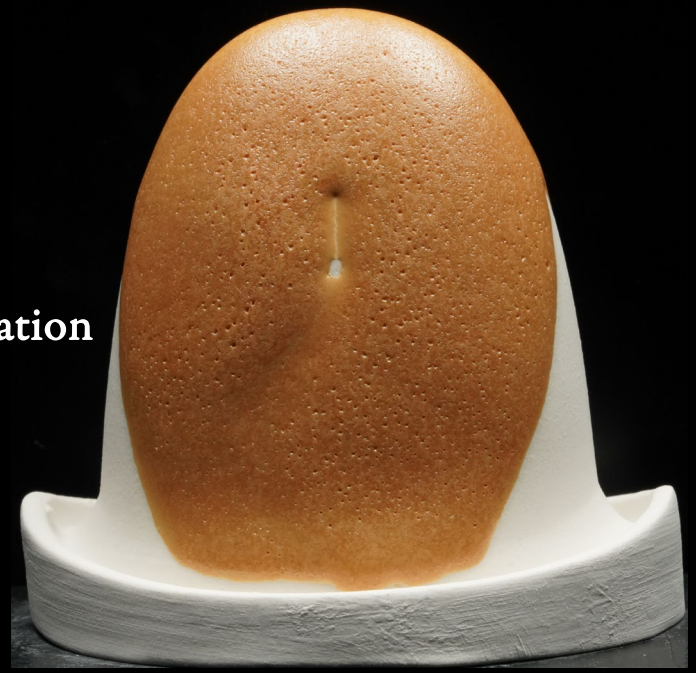
Tangerine

Mapping
Kaolin 4
070922-26

Neph Sy	39.37
Whiting	15.96
Zinc Oxide	10.64
EPK	14.27
Flint	19.75
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

1-3 Second Dip

Oxidation



2-3 Second Dips

Reduction

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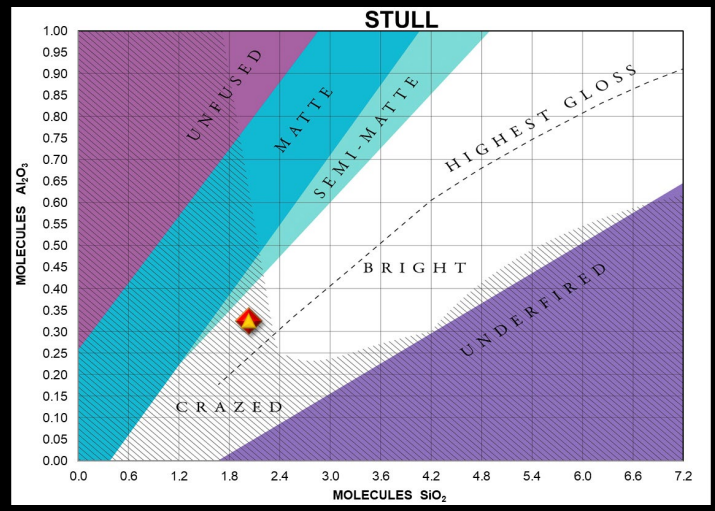
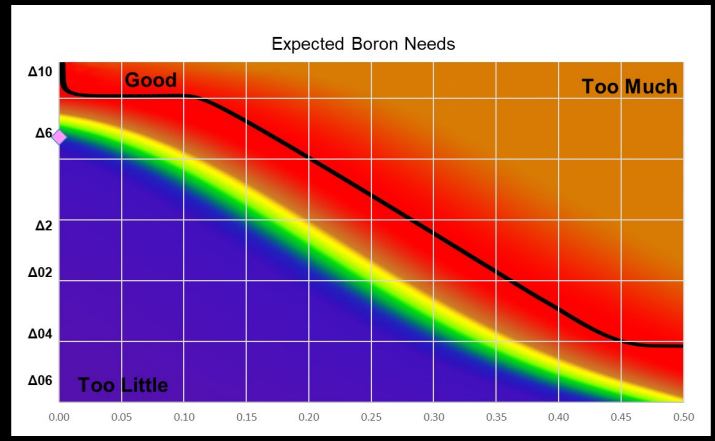
UMF

SiO_2:Al_2O_3 Ratio 6.20 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 2.23	Collective "Al_2O_3" 0.36	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.36	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.34	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 6.20 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 2.03	Collective "Al_2O_3" 0.33	Na_2O 0.16	K_2O 0.05	MgO 0.00	CaO 0.39
B_2O_3	Al_2O_3 0.33	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.31	FeO 0.09
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



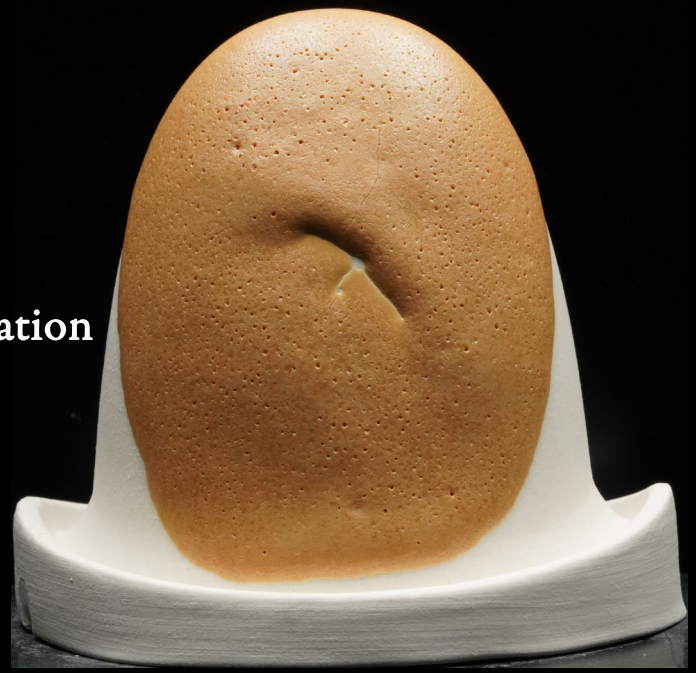
Tangerine

Mapping
Kaolin 5
070922-27

Neph Sy	37.58
Whiting	15.24
Zinc Oxide	10.16
EPK	18.17
Flint	18.86
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

1-3 Second Dip

Oxidation



2-3 Second Dips

Reduction

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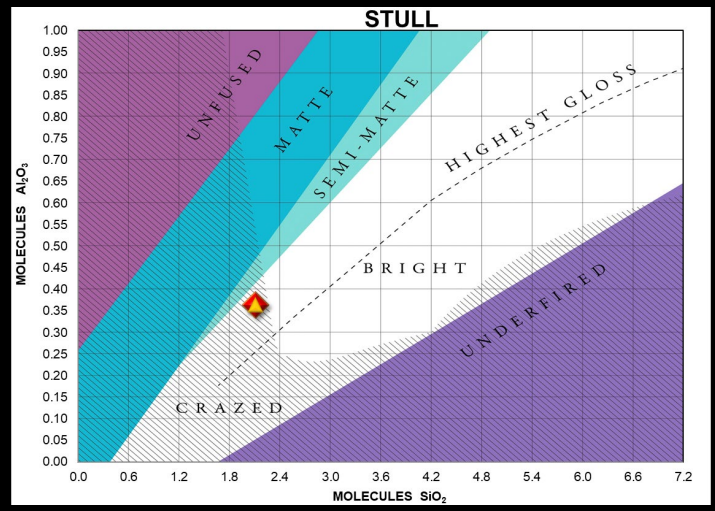
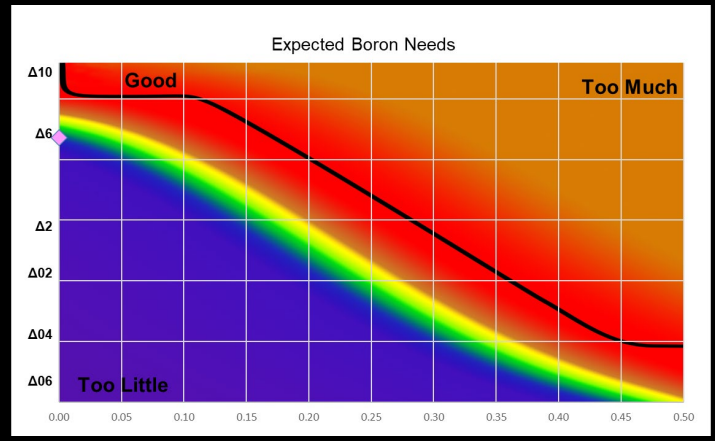
UMF

SiO_2:Al_2O_3 Ratio 5.78 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 2.32	Collective "Al_2O_3" 0.40	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.42
B_2O_3	Al_2O_3 0.40	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.34	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 5.78 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 2.11	Collective "Al_2O_3" 0.36	Na_2O 0.16	K_2O 0.05	MgO 0.00	CaO 0.39
B_2O_3	Al_2O_3 0.36	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.31	FeO 0.10
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



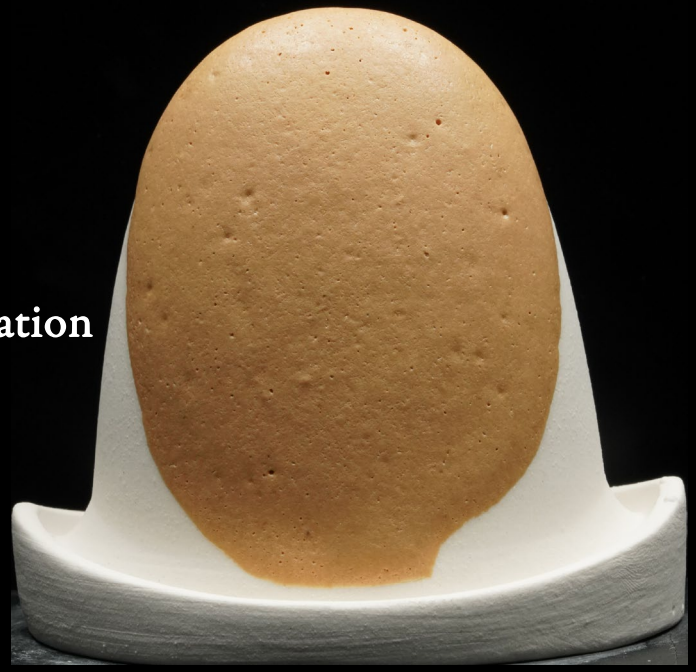
Tangerine

Mapping
Kaolin 6
070922-28

Neph Sy	35.95
Whiting	14.57
Zinc Oxide	9.72
EPK	21.72
Flint	18.04
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

1-3 Second Dip

Oxidation



2-3 Second Dips

Reduction

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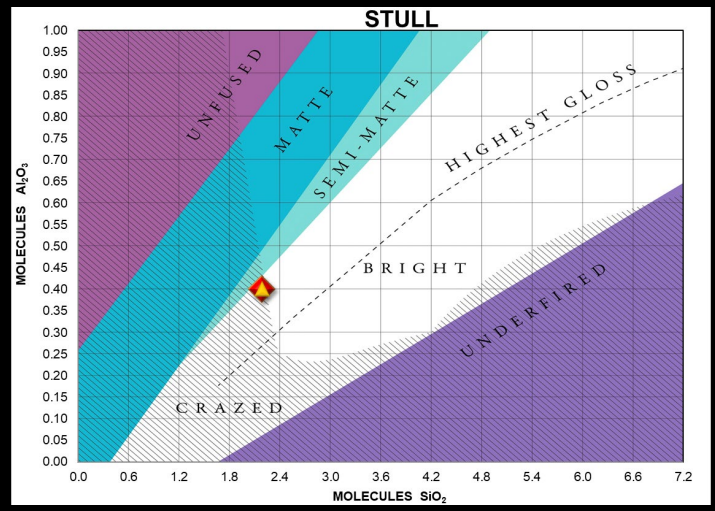
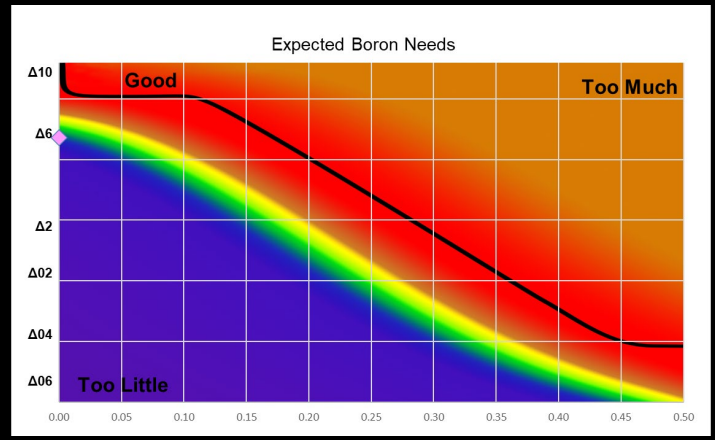
UMF

SiO_2:Al_2O_3 Ratio 5.44 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 2.42	Collective "Al_2O_3" 0.44	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.42
B_2O_3	Al_2O_3 0.44	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.34	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 5.44 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 2.19	Collective "Al_2O_3" 0.40	Na_2O 0.15	K_2O 0.05	MgO 0.00	CaO 0.38
B_2O_3	Al_2O_3 0.40	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.31	FeO 0.10
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



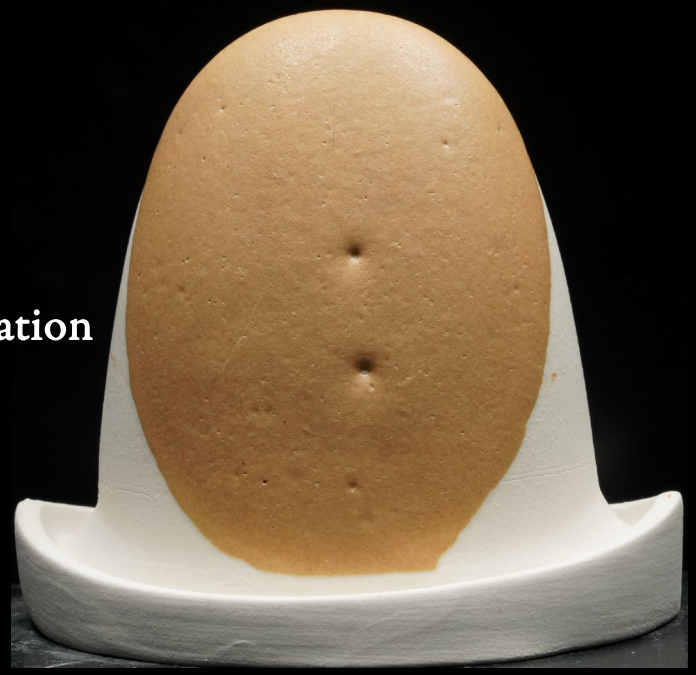
Tangerine

Mapping
Kaolin 7
070922-29

Neph Sy	34.45
Whiting	13.97
Zinc Oxide	9.31
EPK	24.98
Flint	17.29
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	65

1-3 Second Dip

Oxidation



2-3 Second Dips

Reduction

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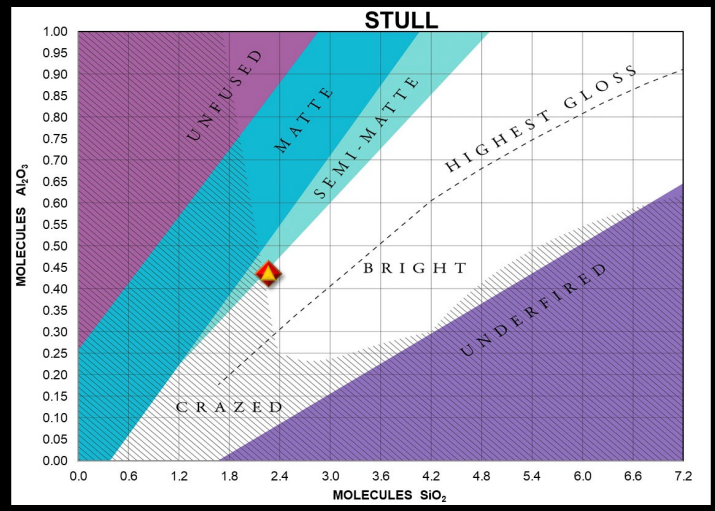
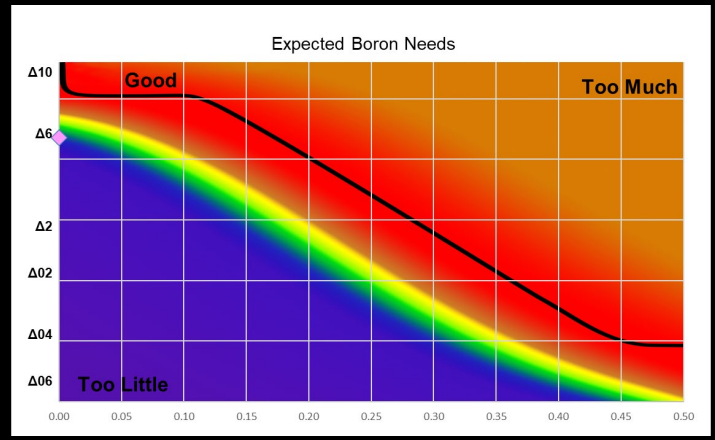
UMF

SiO_2:Al_2O_3 Ratio 5.16 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 2.51	Collective "Al_2O_3" 0.49	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.42
B_2O_3	Al_2O_3 0.48	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.34	FeO 0.01
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 5.16 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 2.27	Collective "Al_2O_3" 0.44	Na_2O 0.15	K_2O 0.05	MgO 0.00	CaO 0.38
B_2O_3	Al_2O_3 0.44	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.31	FeO 0.11
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



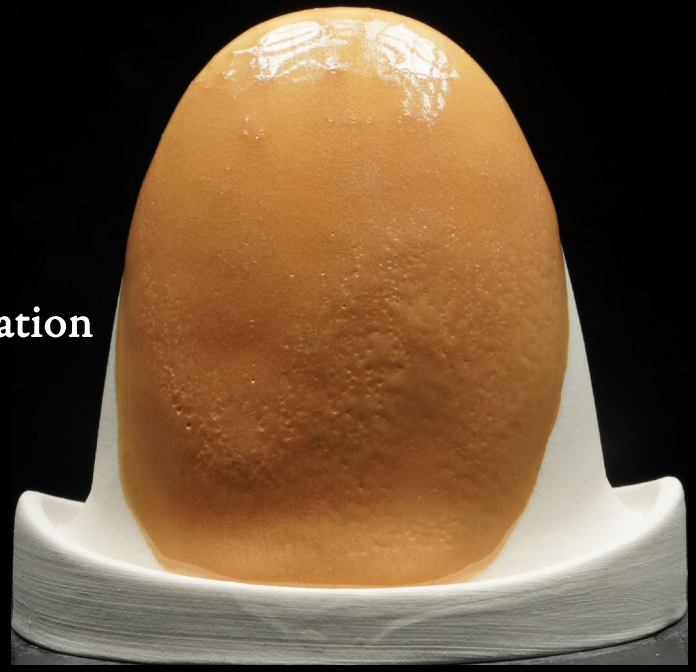
Tangerine

Mapping
Silica 2
070922-30

Neph Sy	49.22
Whiting	19.95
Zinc Oxide	13.30
EPK	9.31
Flint	8.21
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

1-3 Second Dip

Oxidation



2-3 Second Dips

Reduction

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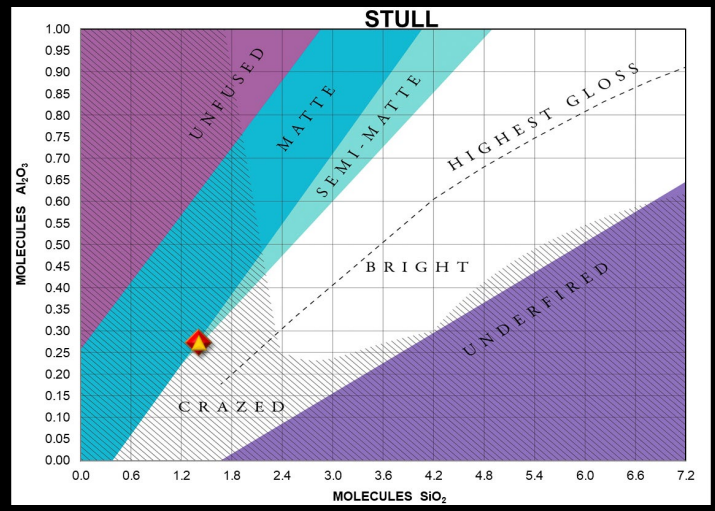
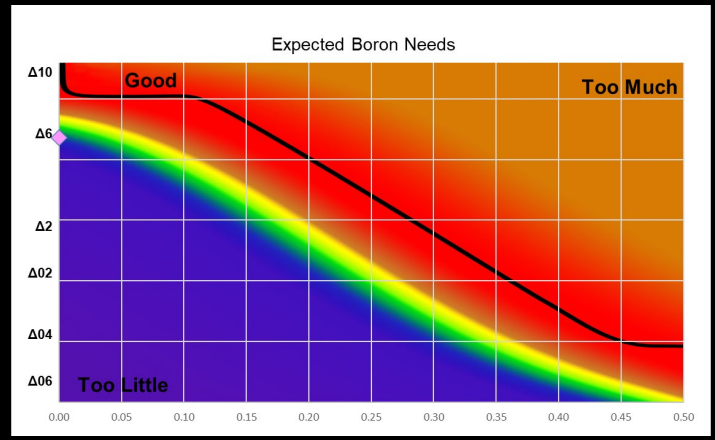
UMF

SiO_2:Al_2O_3 Ratio 5.14 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 1.52	Collective "Al_2O_3" 0.30	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.29	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.35	FeO 0.00
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 5.14 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO_2 1.41	Collective "Al_2O_3" 0.27	Na_2O 0.16	K_2O 0.05	MgO 0.00	CaO 0.40
B_2O_3	Al_2O_3 0.27	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.32	FeO 0.08
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



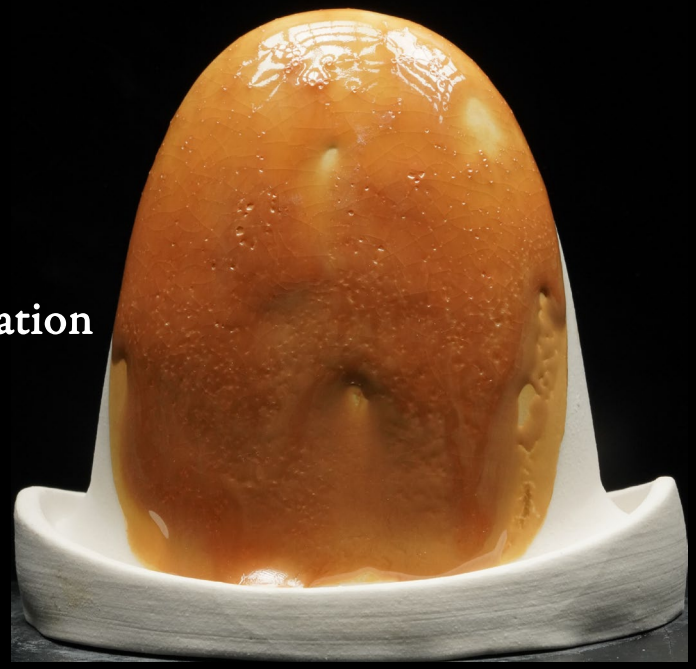
Tangerine

Mapping
Silica 3
070922-31

Neph Sy	45.49
Whiting	18.44
Zinc Oxide	12.29
EPK	8.61
Flint	15.17
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

1-3 Second Dip

Oxidation



2-3 Second Dips

Reduction

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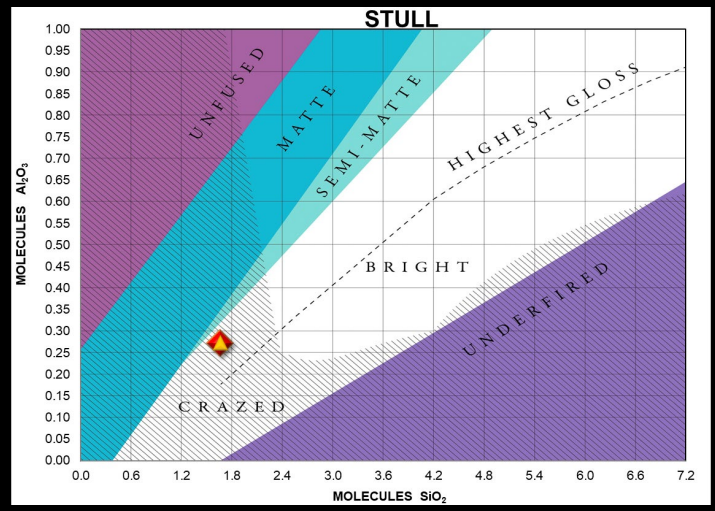
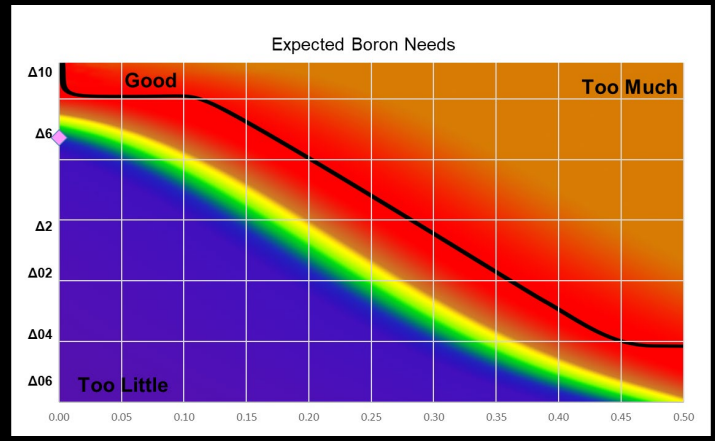
UMF

SiO_2:Al_2O_3 Ratio 6.08 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 1.80	Collective "Al_2O_3" 0.30	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.29	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.34	FeO 0.00
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 6.08 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 1.66	Collective "Al_2O_3" 0.27	Na_2O 0.16	K_2O 0.05	MgO 0.00	CaO 0.39
B_2O_3	Al_2O_3 0.27	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.32	FeO 0.08
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Tangerine

Mapping
Silica 4
070922-32

Neph Sy	39.50
Whiting	16.01
Zinc Oxide	10.67
EPK	7.47
Flint	26.34
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

1-3 Second Dip

Oxidation

2-3 Second Dips

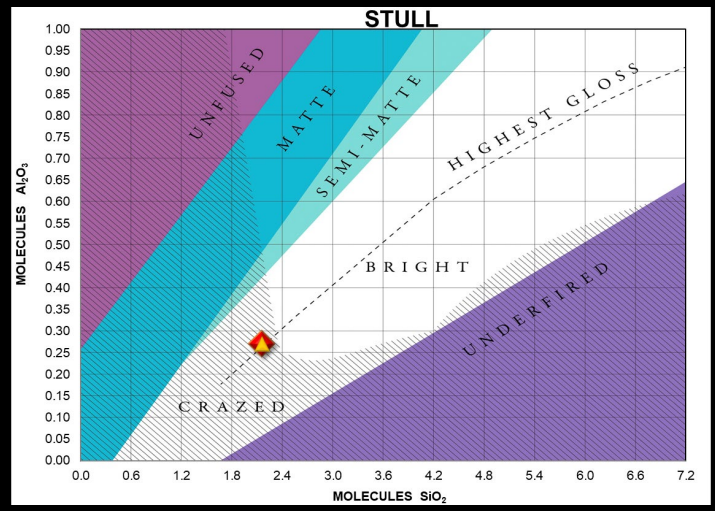
Reduction

ceramicmaterialsworkshop.com

Ceramic Materials Workshop

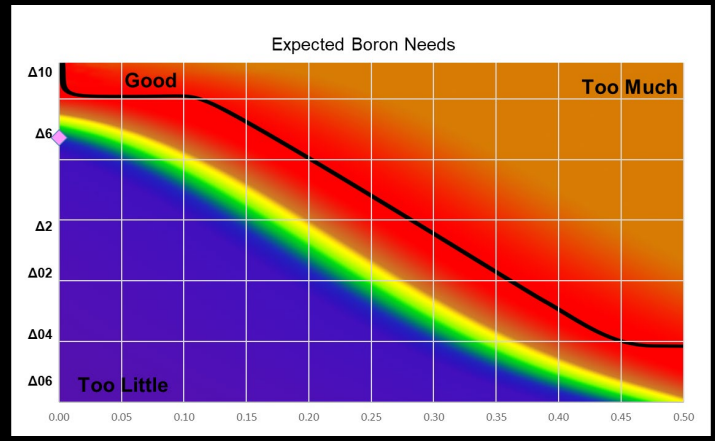
UMF

SiO_2:Al_2O_3 Ratio 7.95 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 2.37	Collective "Al_2O_3" 0.30	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.30	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.34	FeO 0.00
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 7.95 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 2.16	Collective "Al_2O_3" 0.27	Na_2O 0.16	K_2O 0.04	MgO 0.00	CaO 0.39
B_2O_3	Al_2O_3 0.27	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.31	FeO 0.09
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO



Tangerine

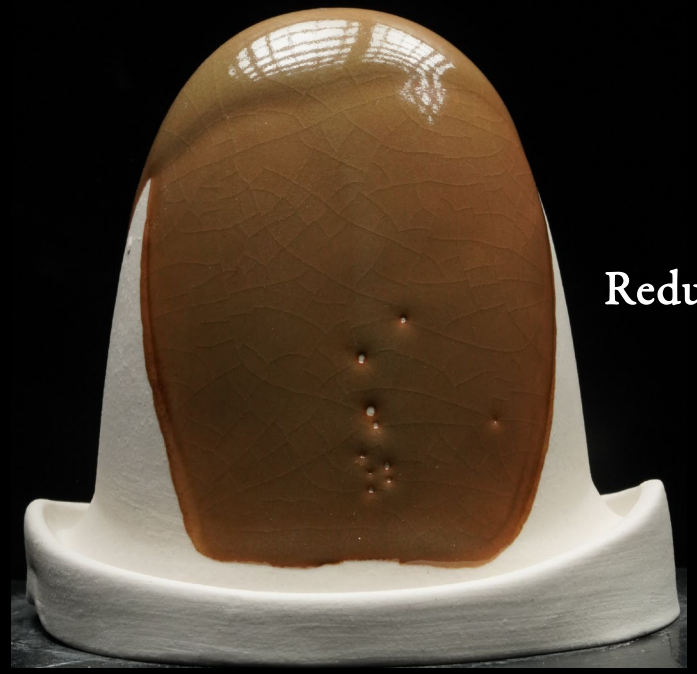
Mapping
Silica 5
070922-33

Neph Sy	37.06
Whiting	15.02
Zinc Oxide	10.02
EPK	7.01
Flint	30.90
Chrome Oxide	0.20
Red Iron Oxide	1.84
Water	60

1-3 Second Dip

Oxidation

2-3 Second Dips



Reduction

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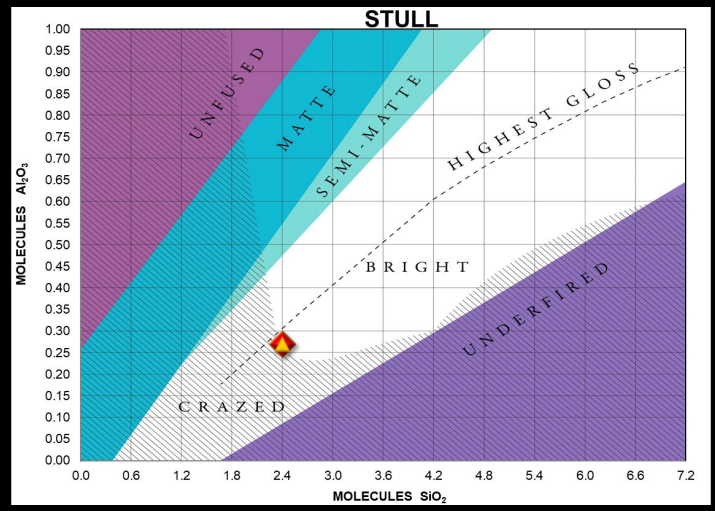
Ceramic Materials Workshop

UMF

SiO_2:Al_2O_3 Ratio 8.88 :1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO_2 2.65	Collective "Al_2O_3" 0.30	Na_2O 0.17	K_2O 0.05	MgO 0.00	CaO 0.43
B_2O_3	Al_2O_3 0.30	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.34	FeO 0.00
Cr_2O_3	ZrO_2	P_2O_5		MnO_2	CoO



EUMF

SiO_2:Al_2O_3 Ratio 8.88 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO_2 2.40	Collective "Al_2O_3" 0.27	Na_2O 0.16	K_2O 0.04	MgO 0.00	CaO 0.39
B_2O_3	Al_2O_3 0.27	Li_2O	CuO	SrO	BaO
TiO_2 0.00	NiO	Bi_2O_3	SnO_2	ZnO 0.31	FeO 0.10
Cr_2O_3 0.00	ZrO_2	P_2O_5		MnO_2	CoO