

Old Orange- $\Delta 10$

Lab 3-Sili-Closeness

Old Orange

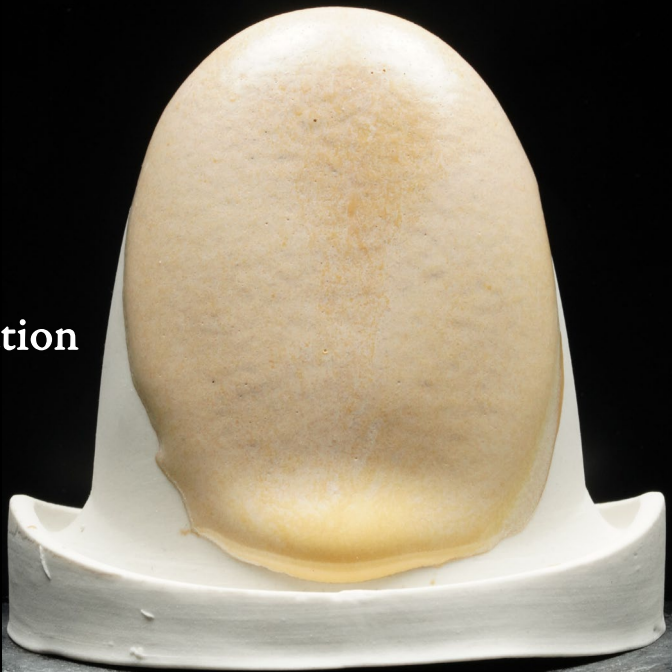
Original
062822-1

Neph Sy	37.51
Whiting	18.67
EPK	9.55
Flint	34.26
Light Rutile	11.11
Water	60



Oxidation

1-3 Second Dip



2-3 Second Dips

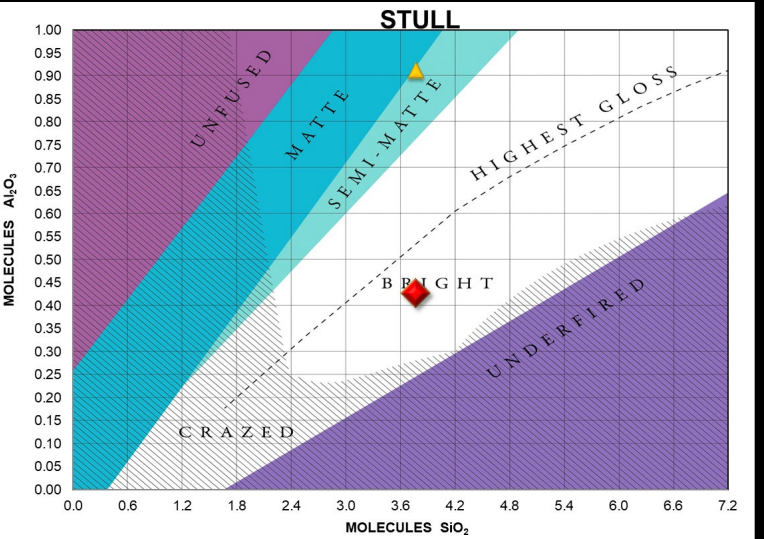


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.81 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.77	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 4.13 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.77	Collective "Al ₂ O ₃ " 0.91	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.49	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

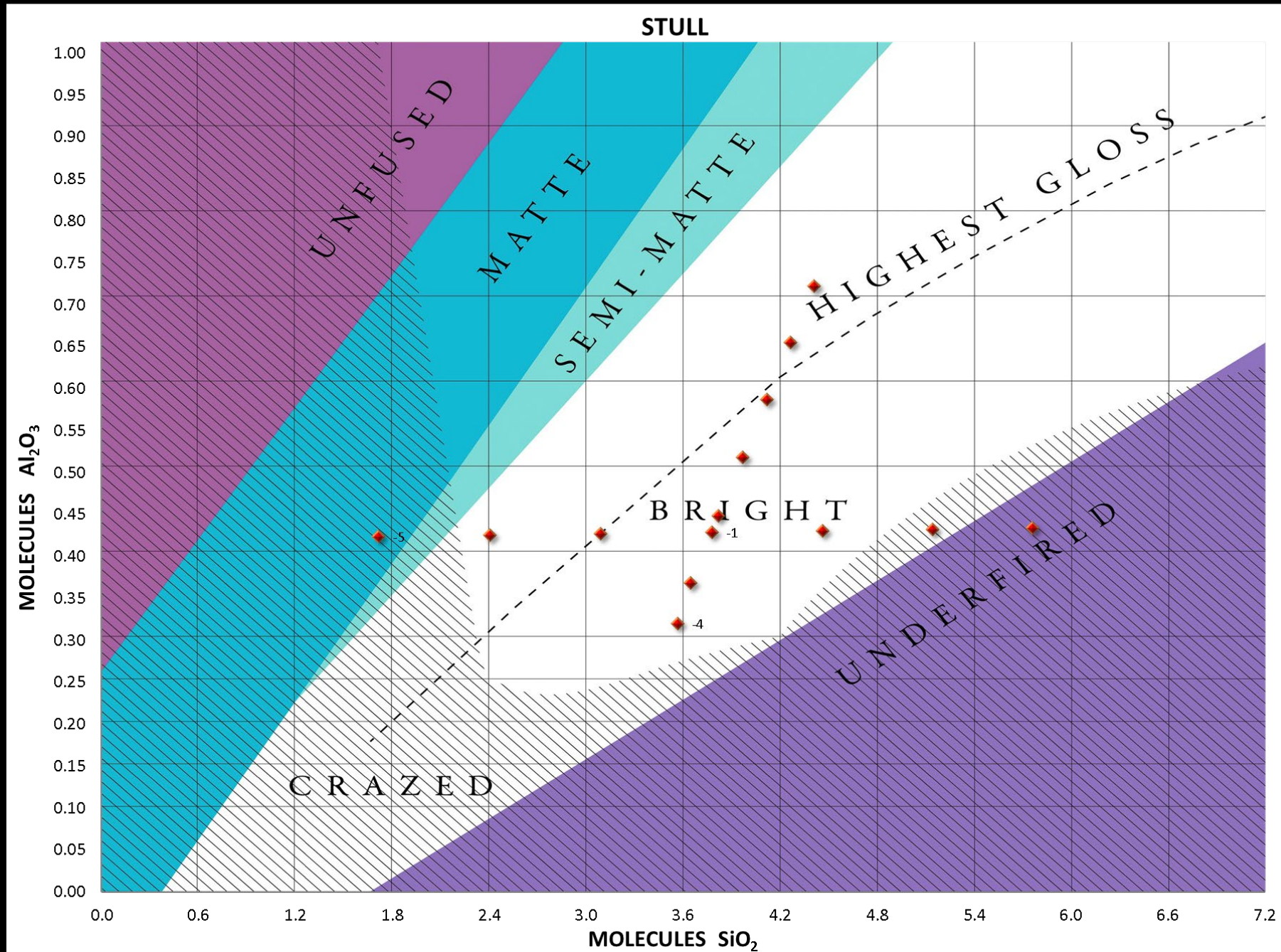


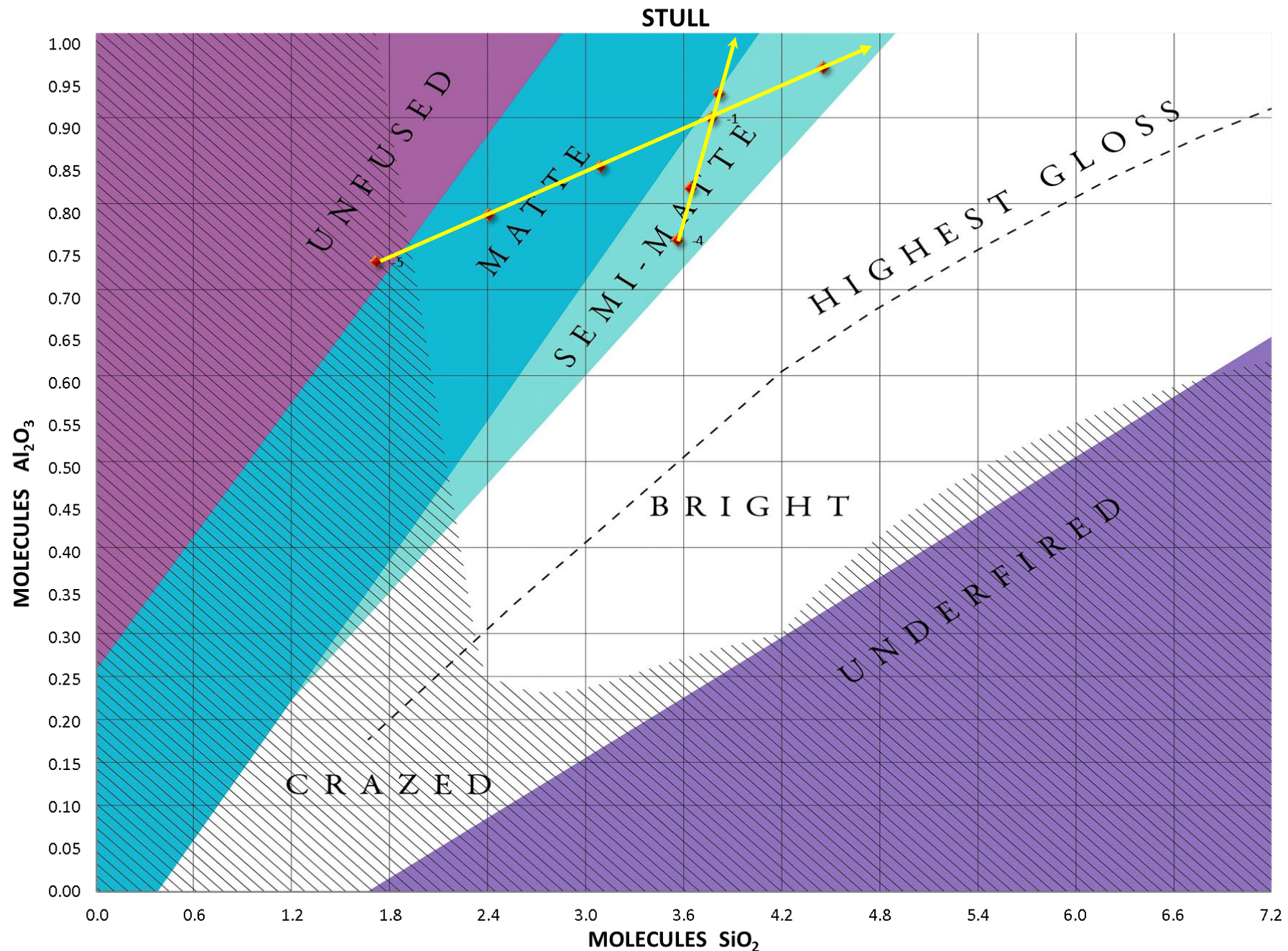
Ceramic
Materials
Workshop

UMF

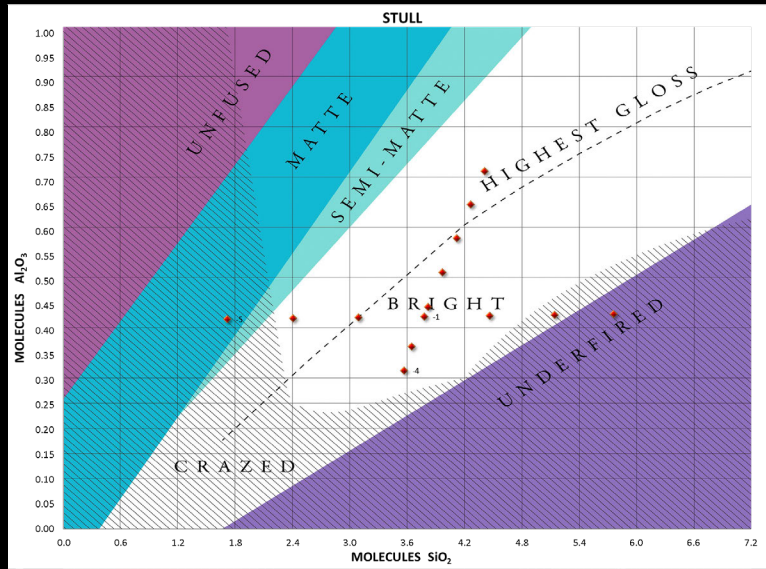


Ceramic
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Workshop

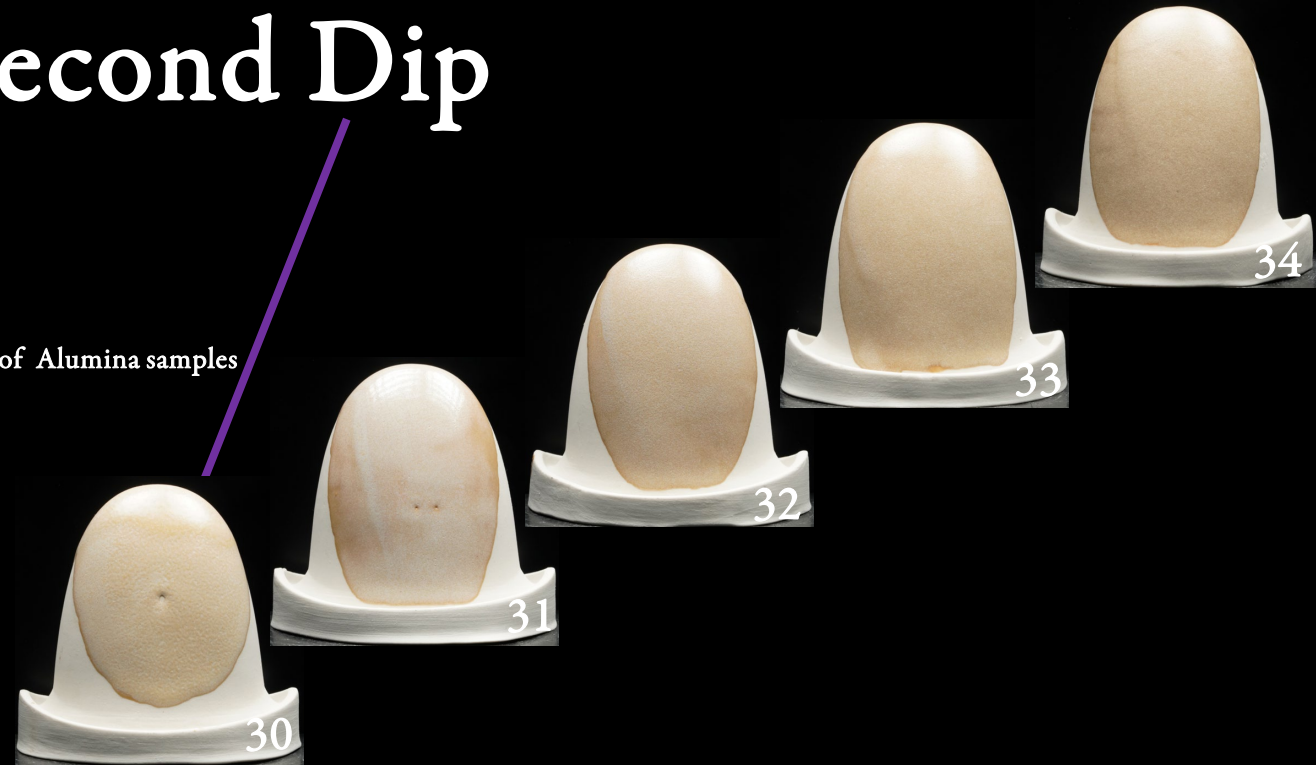




Full Test-Oxidation-1-3 Second Dip



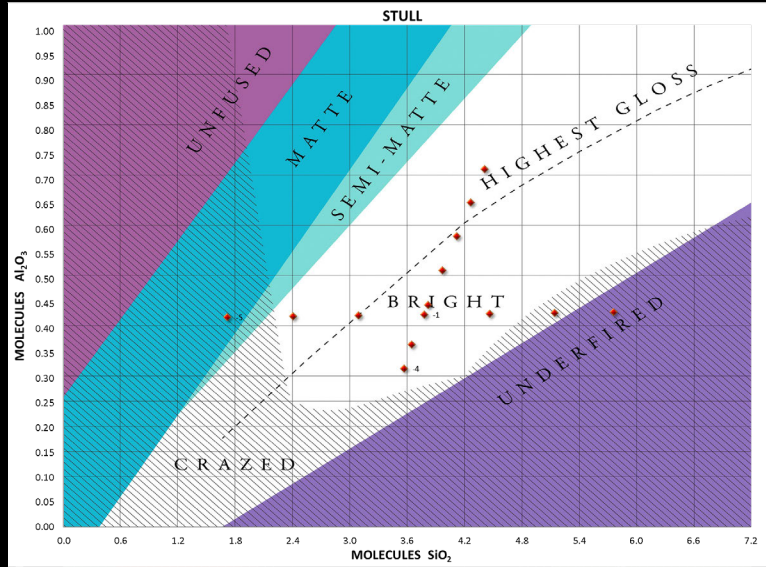
Indicates correct position of Alumina samples



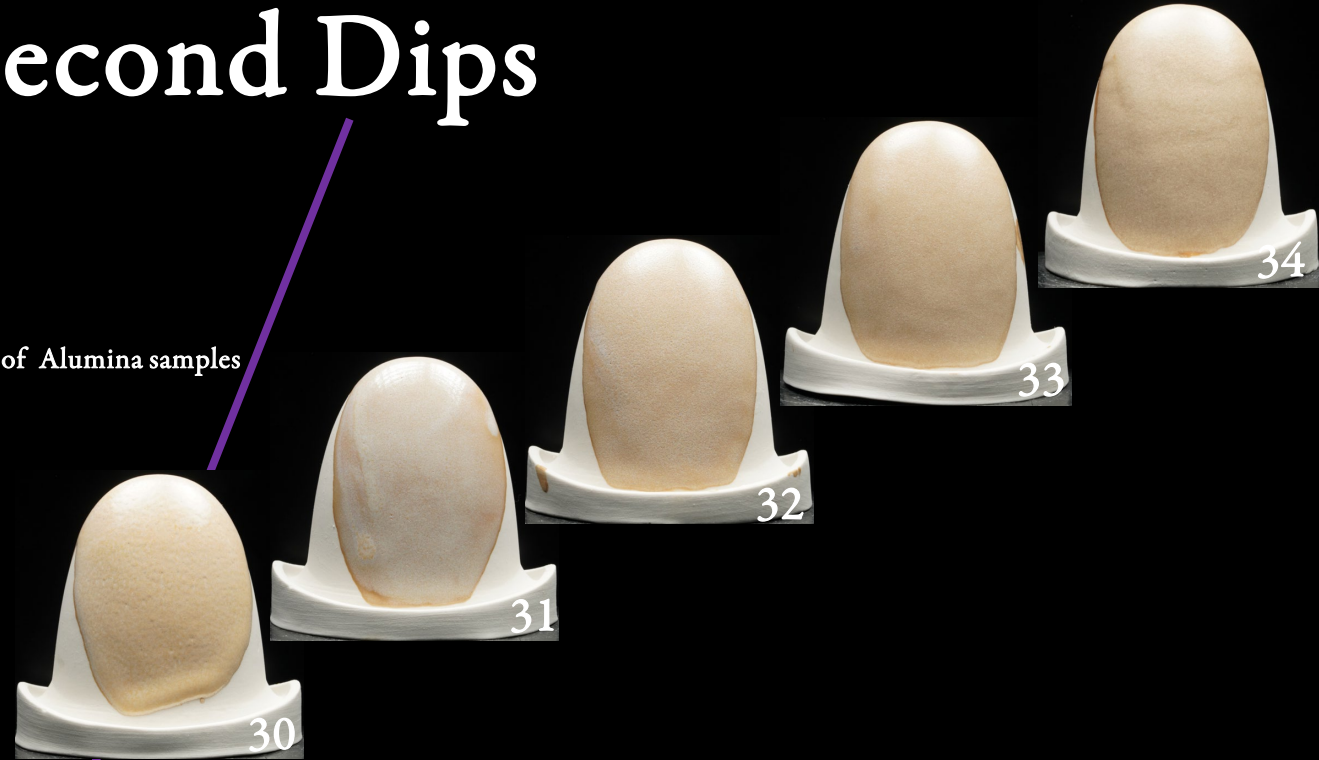
Ceramic
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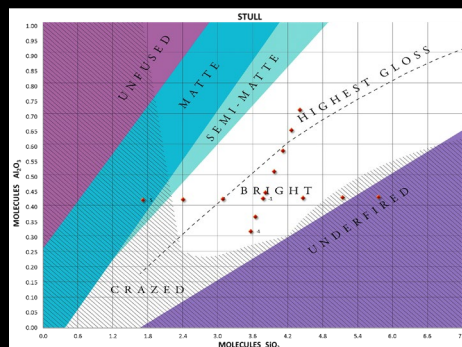
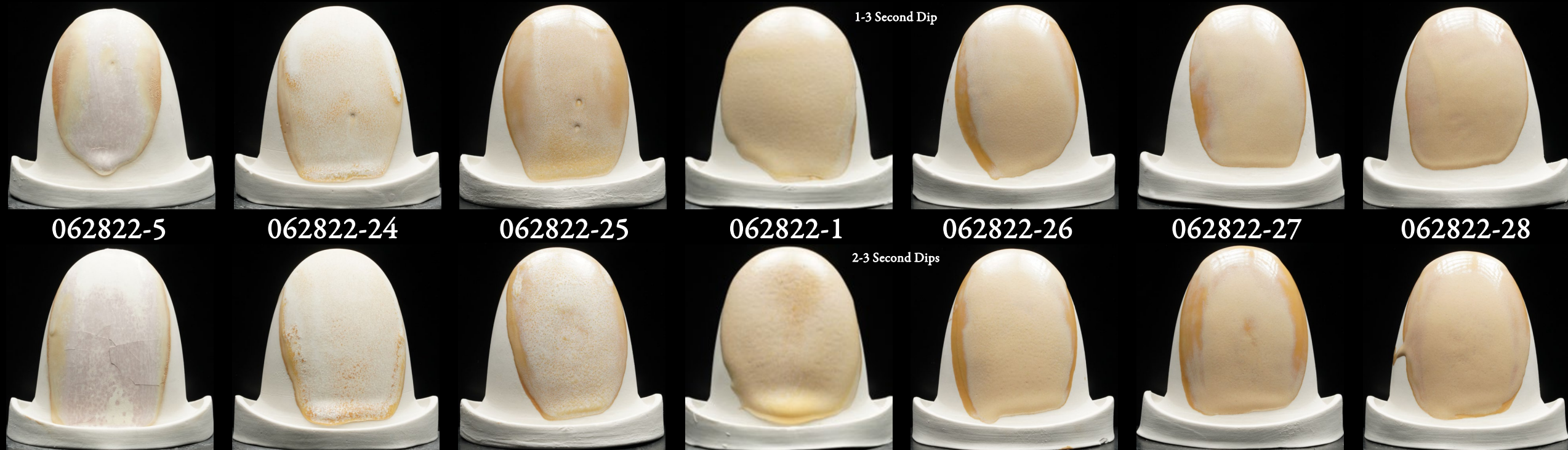
Full Test-Oxidation-2-3 Second Dips



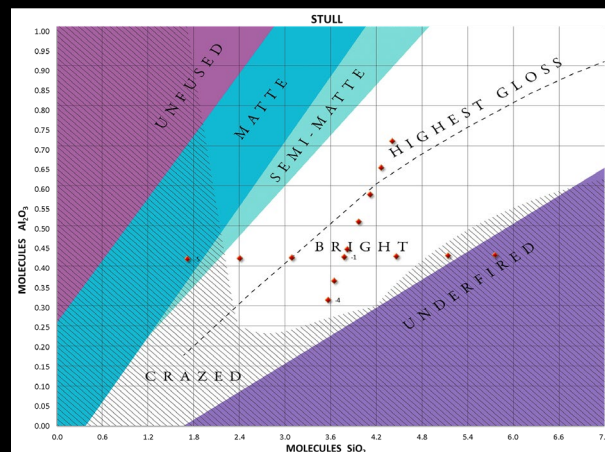
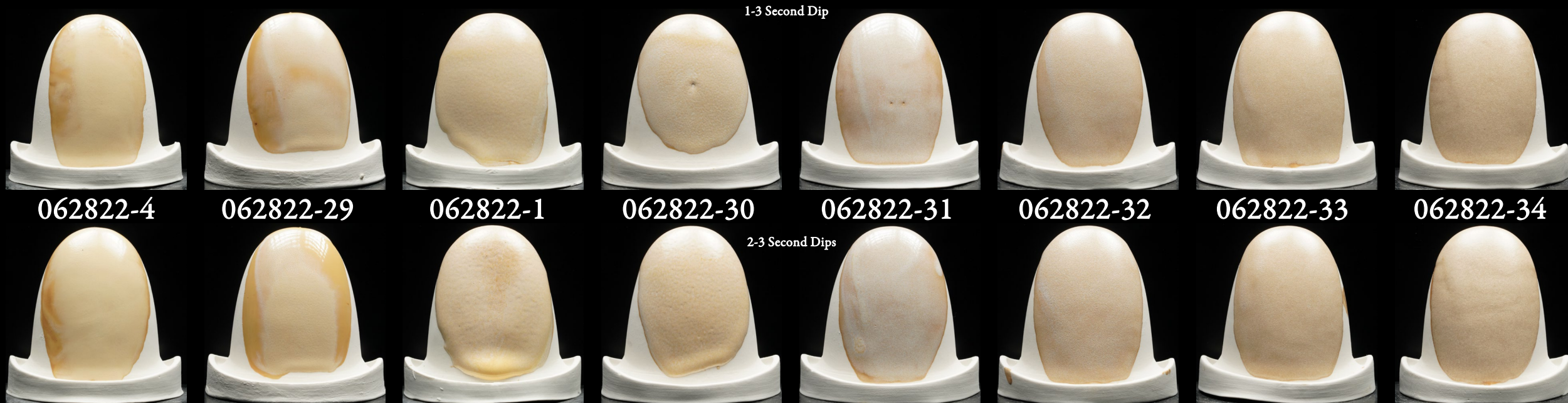
Indicates correct position of Alumina samples



Silica Variations-Oxidation



Alumina Variations-Oxidation

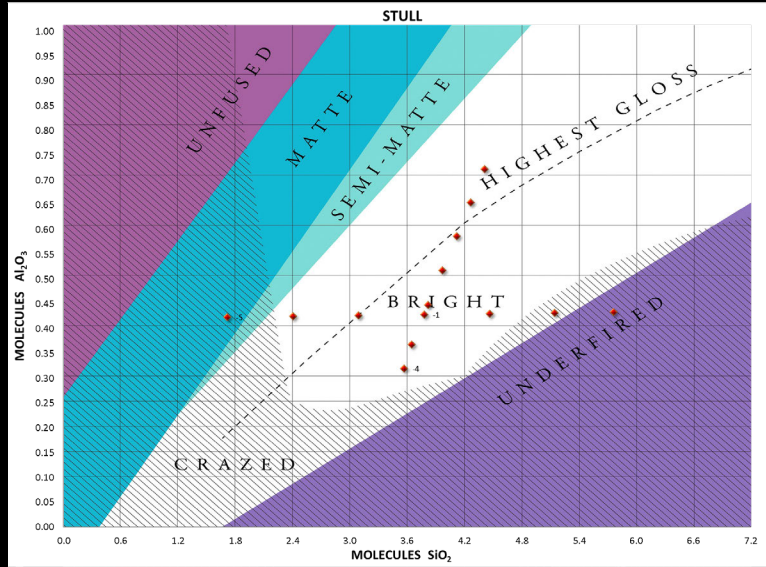


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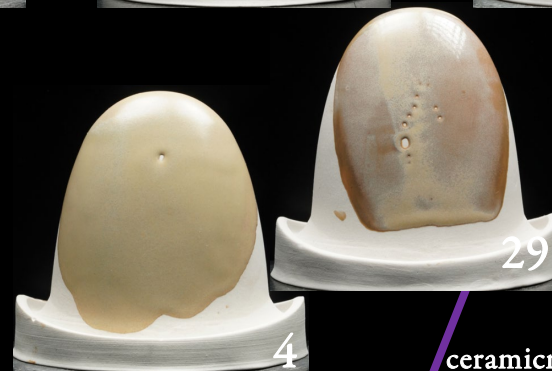
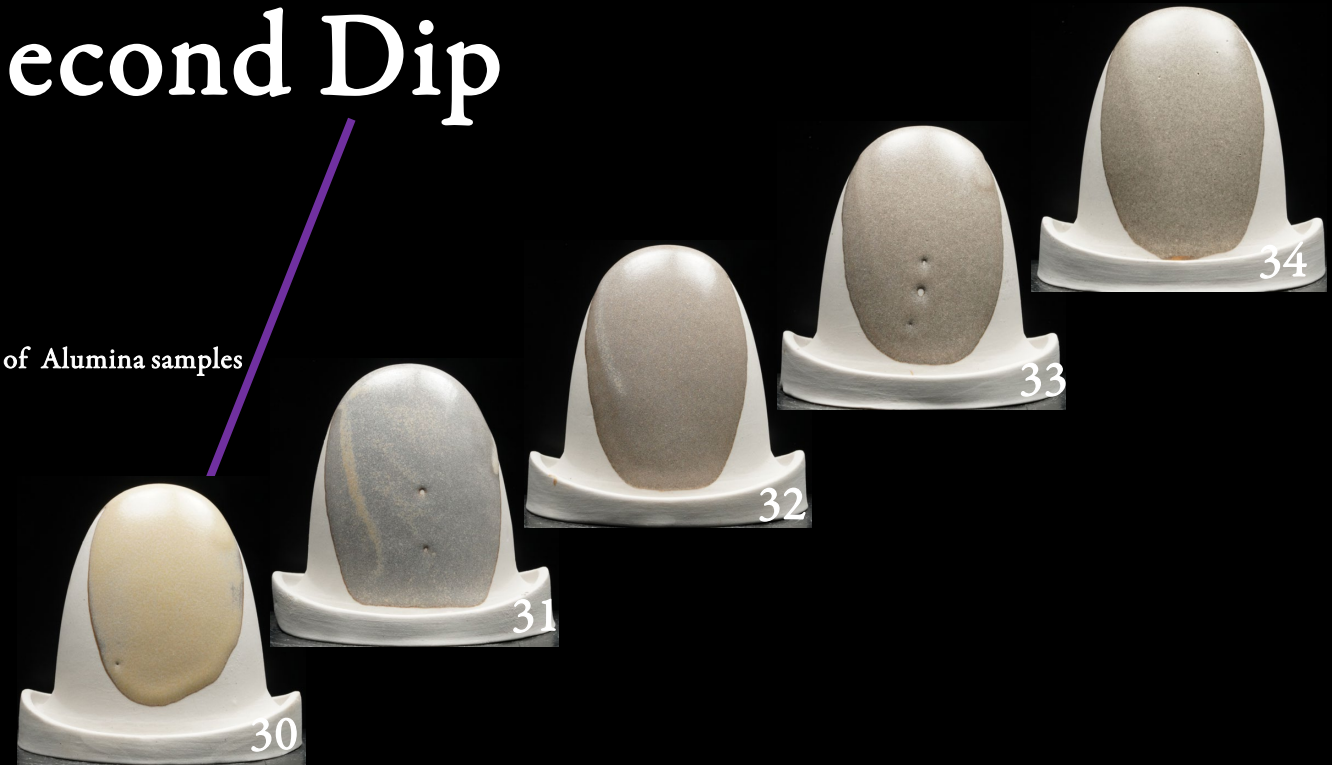


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Full Test-Reduction-1-3 Second Dip



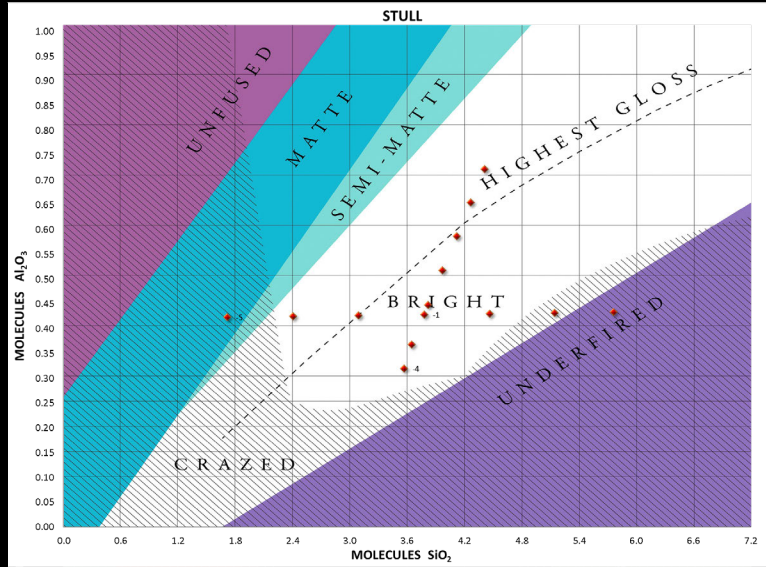
Indicates correct position of Alumina samples



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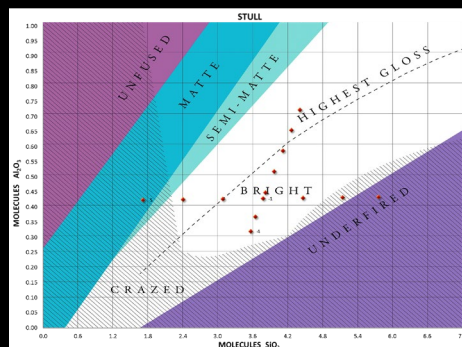
Full Test-Reduction-2-3 Second Dips



Indicates correct position of Alumina samples



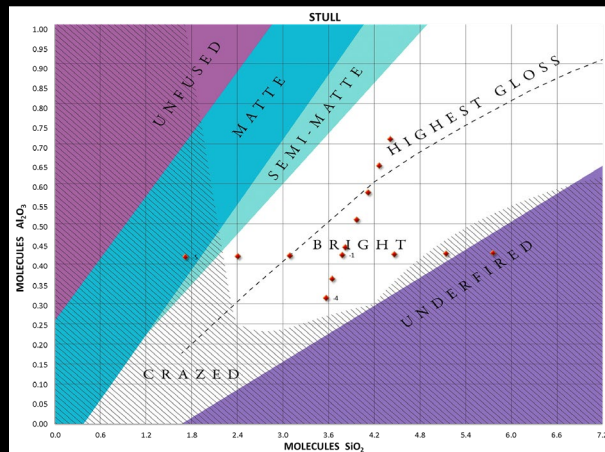
Silica Variations-Reduction



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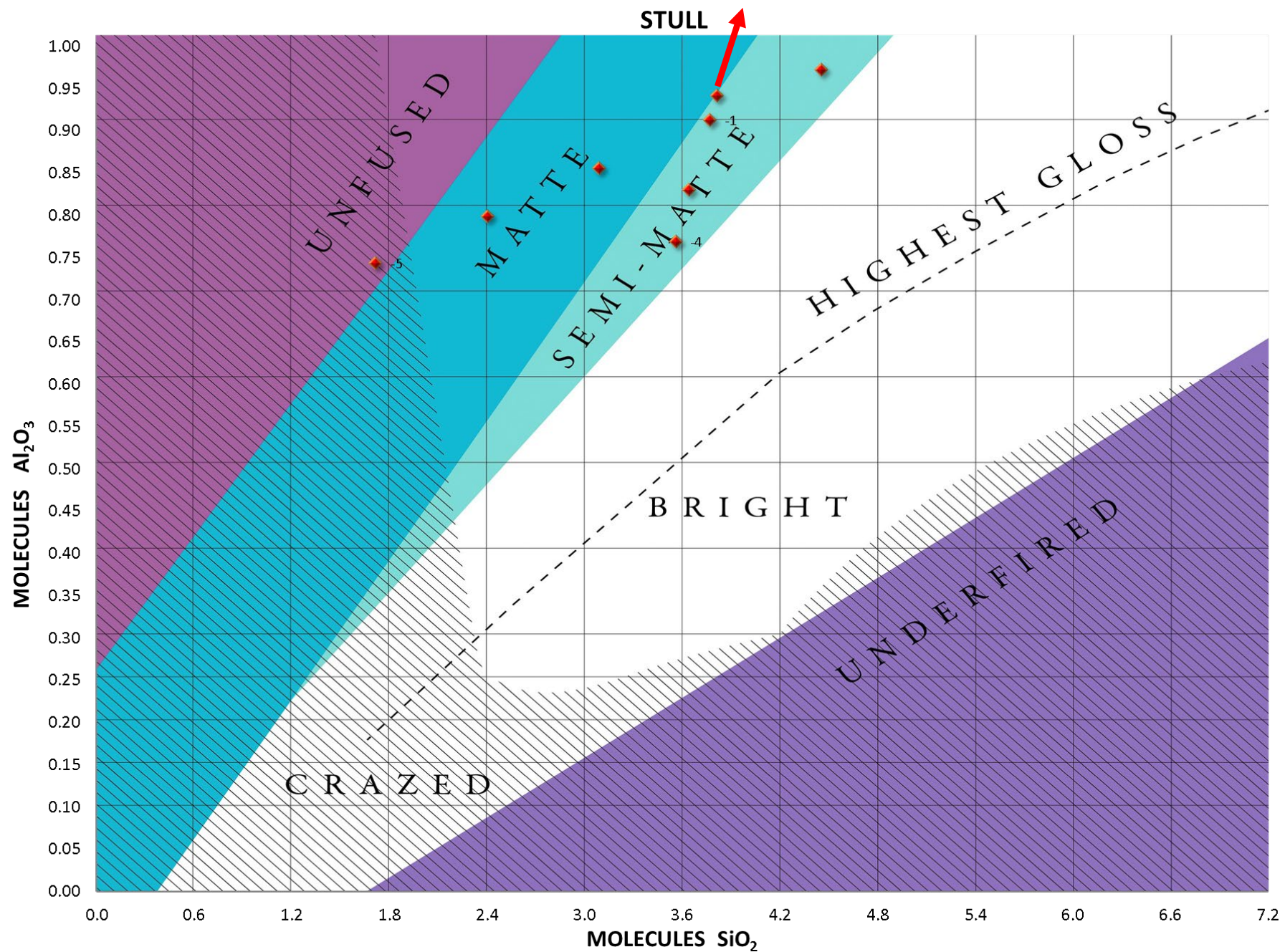
Alumina Variations-Reduction



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Ceramic
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Old Orange

Original

062822-1

Neph Sy	37.51
Whiting	18.67
EPK	9.55
Flint	34.26
Light Rutile	11.11
Water	60



1-3 Second Dip



2-3 Second Dips

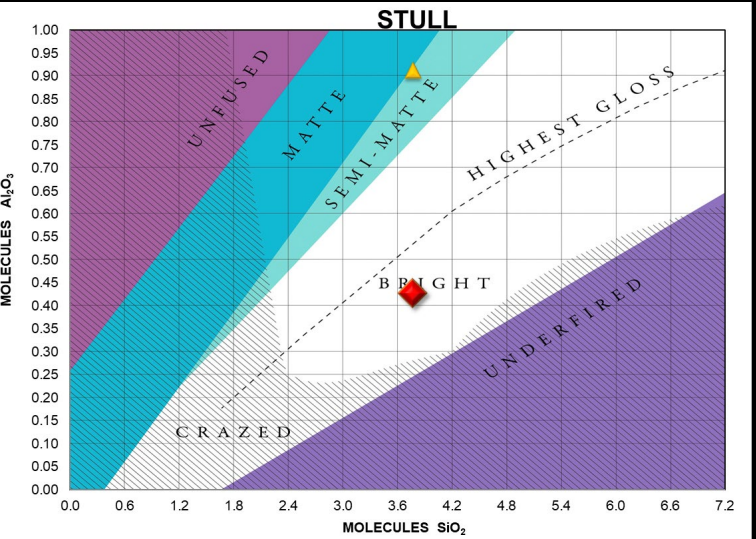


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.81 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.77	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 4.13 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.77	Collective "Al ₂ O ₃ " 0.91	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.49	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Old Orange

w/o Silica
062822-5

Neph Sy	57.07
Whiting	28.40
EPK	14.53
Flint	
Light Rutile	11.14
Water	60



1-3 Second Dip



2-3 Second Dips

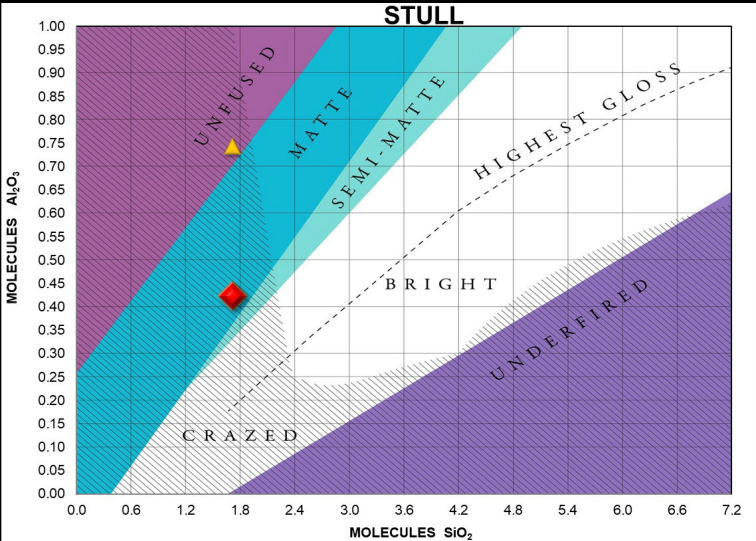


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 4.05 :1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 1.71	Collective "Al ₂ O ₃ " 0.42	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.42	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 2.30 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 1.71	Collective "Al ₂ O ₃ " 0.74	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.42	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.32	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
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Old Orange

w/o Kaolin
062822-4

Neph Sy	41.48
Whiting	20.64
EPK	
Flint	37.88
Bentonite	2.27
Light Rutile	11.39
Water	60



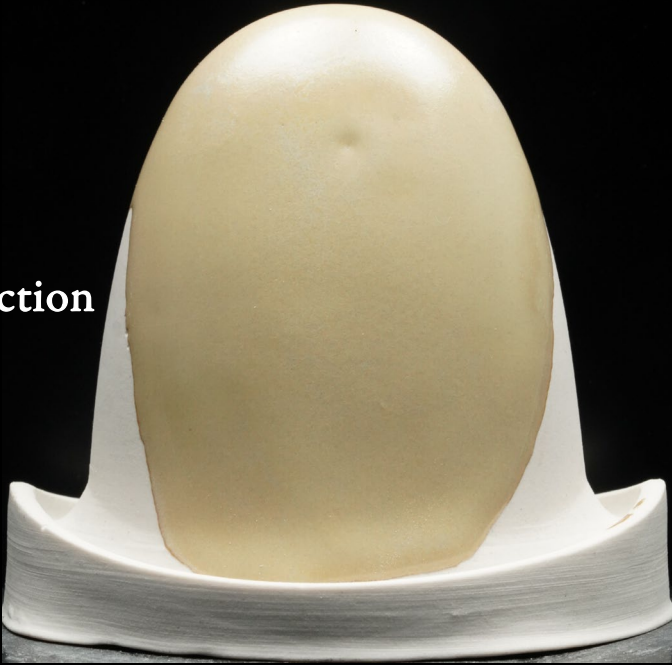
1-3 Second Dip



2-3 Second Dips



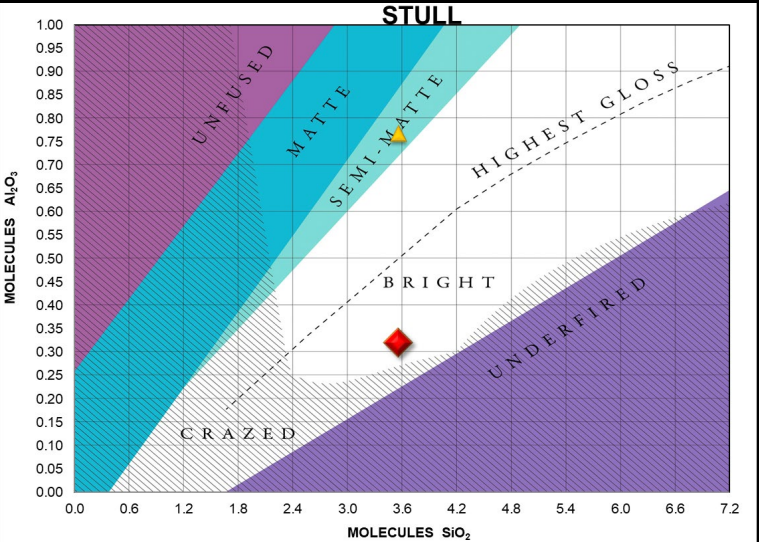
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 11.13 :1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 3.56	Collective "Al ₂ O ₃ " 0.32	Na ₂ O 0.23	K ₂ O 0.06	MgO 0.01	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.32	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 4.63 :1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 3.56	Collective "Al ₂ O ₃ " 0.77	Na ₂ O 0.23	K ₂ O 0.06	MgO 0.01	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.32	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.45	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
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Old Orange

Mapping
Silica 3

062822-24

Neph Sy	48.62
Whiting	24.19
EPK	12.38
Flint	14.80
Light Rutile	11.09
Water	60



1-3 Second Dip



2-3 Second Dips



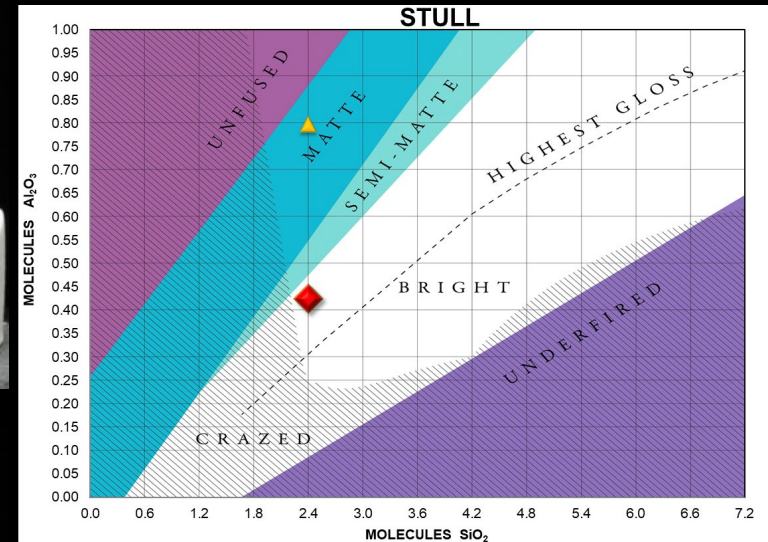
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.65 :1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 2.40	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.42	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 3.00 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 2.40	Collective "Al ₂ O ₃ " 0.80	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.42	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.38	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Old Orange

Mapping
Silica 4

062822-25

Neph Sy	42.35
Whiting	21.07
EPK	10.79
Flint	25.79
Light Rutile	11.10
Water	60



1-3 Second Dip



2-3 Second Dips



1-3 Second Dip



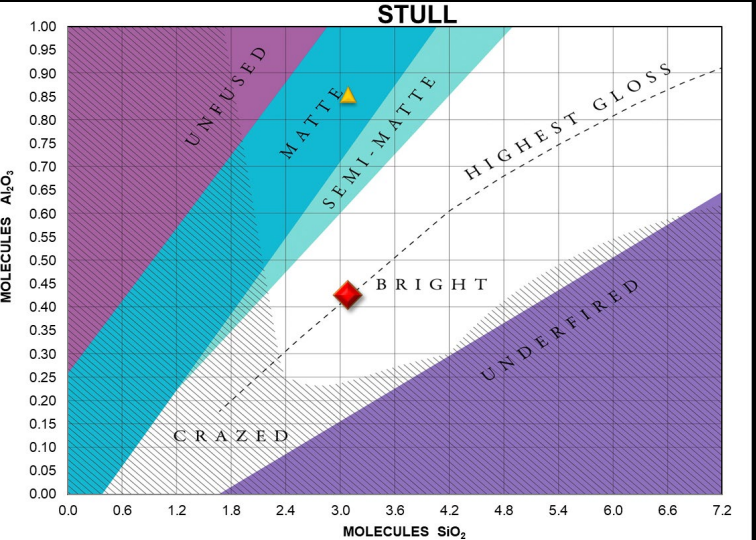
2-3 Second Dips

Oxidation

Reduction

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.24 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.09	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.42	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 3.60 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.09	Collective "Al ₂ O ₃ " 0.86	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.43	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
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Old Orange

Mapping
Silica 5

062822-26

Neph Sy	33.67
Whiting	16.75
EPK	8.57
Flint	41.01
Light Rutile	11.17
Water	60



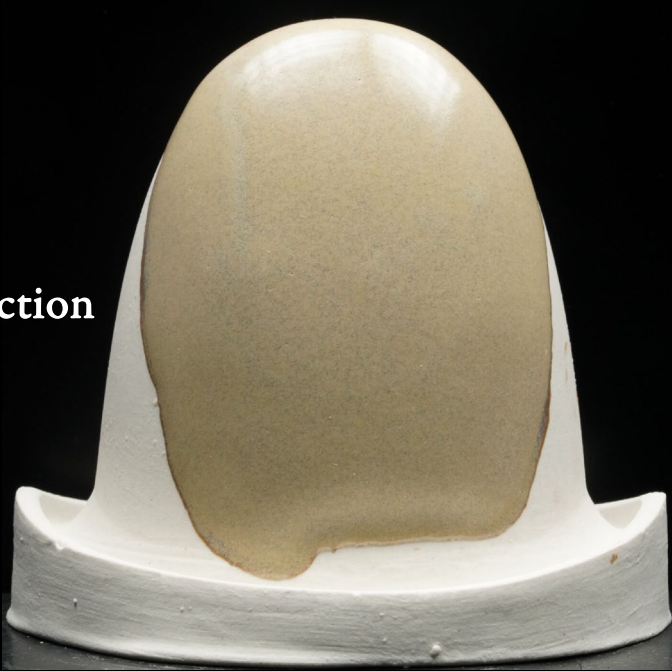
1-3 Second Dip



2-3 Second Dips



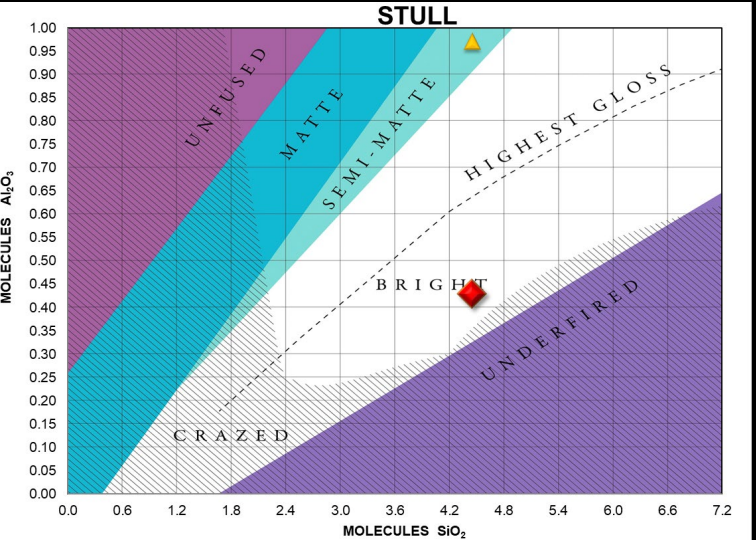
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 10.36 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 4.46	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 4.58 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 4.45	Collective "Al ₂ O ₃ " 0.97	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.54	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Old Orange

Mapping
Silica 6

062822-27

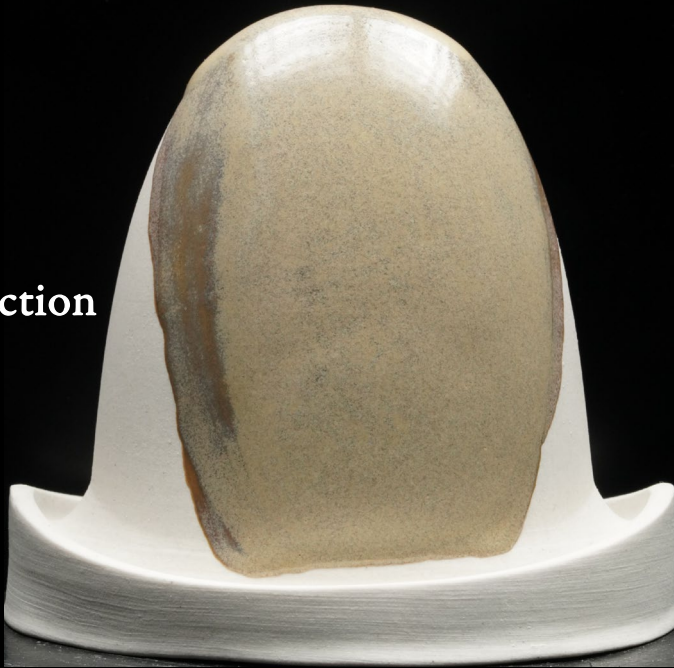
Neph Sy	30.54
Whiting	15.20
EPK	7.78
Flint	46.49
Light Rutile	11.13
Water	60



1-3 Second Dip



2-3 Second Dips

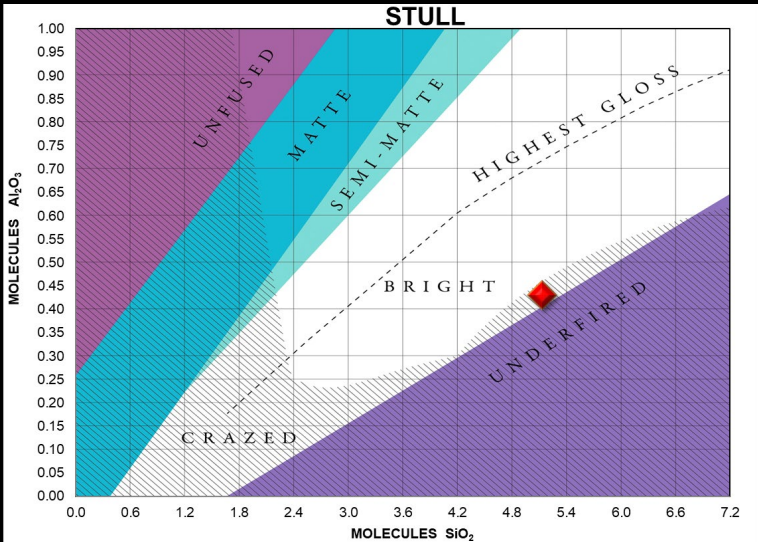


Oxidation

Reduction

UMF

SiO ₂ :Al ₂ O ₃ Ratio 11.90 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 5.14	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 5.00 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 5.13	Collective "Al ₂ O ₃ " 1.03	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.60	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Old Orange

Mapping
Silica 7

062822-28

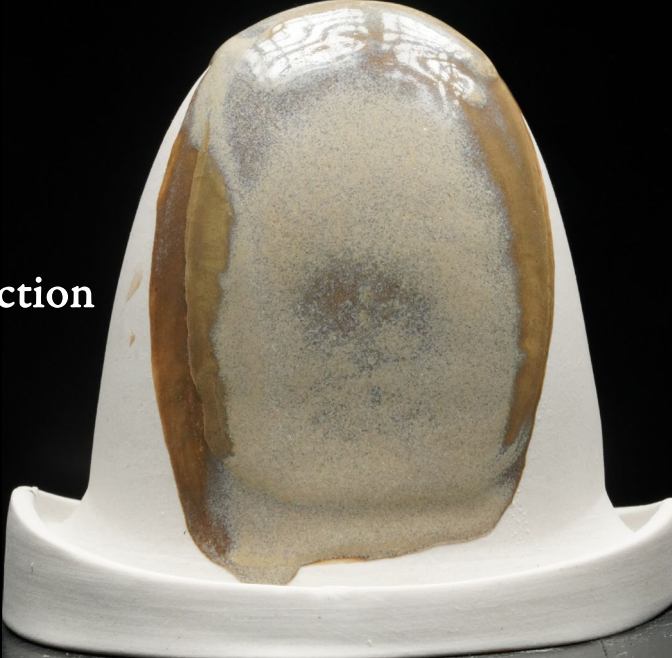
Neph Sy	28.17
Whiting	14.02
EPK	7.18
Flint	50.63
Light Rutile	11.10
Water	60



1-3 Second Dip



2-3 Second Dips

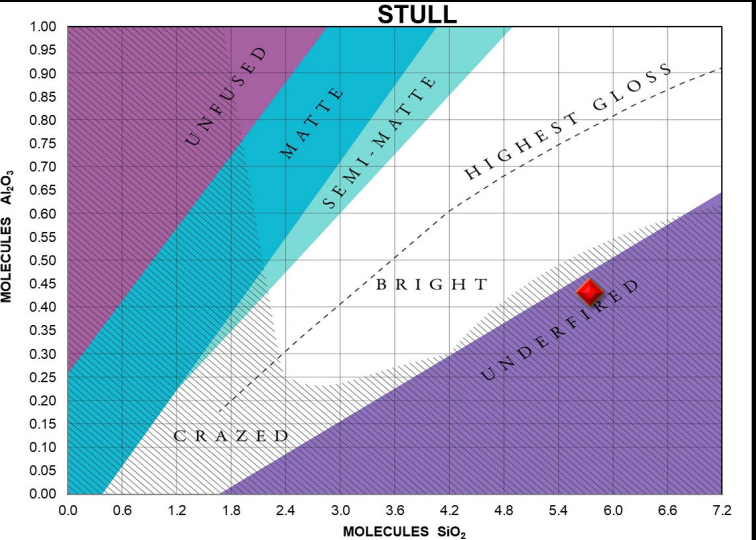


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 13.28 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 5.76	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 5.34 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 5.75	Collective "Al ₂ O ₃ " 1.08	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.64	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Ceramic
Materials
Workshop

Old Orange

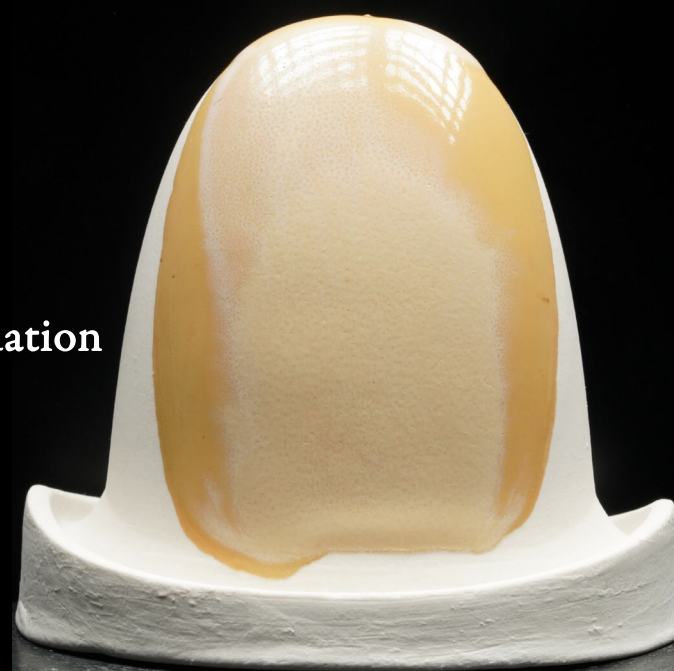
Mapping
Kaolin 2

062822-29

Neph Sy	39.40
Whiting	19.61
EPK	5.02
Flint	35.98
Light Rutile	11.09
Water	60



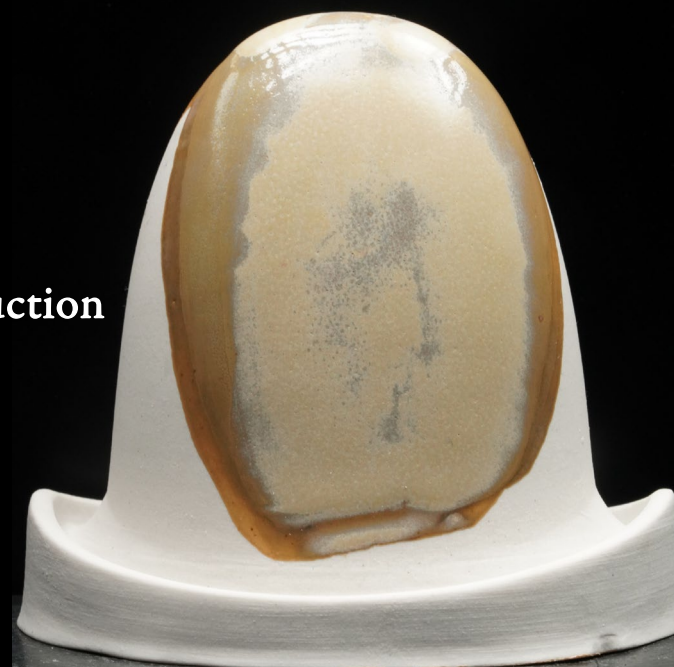
1-3 Second Dip



2-3 Second Dips



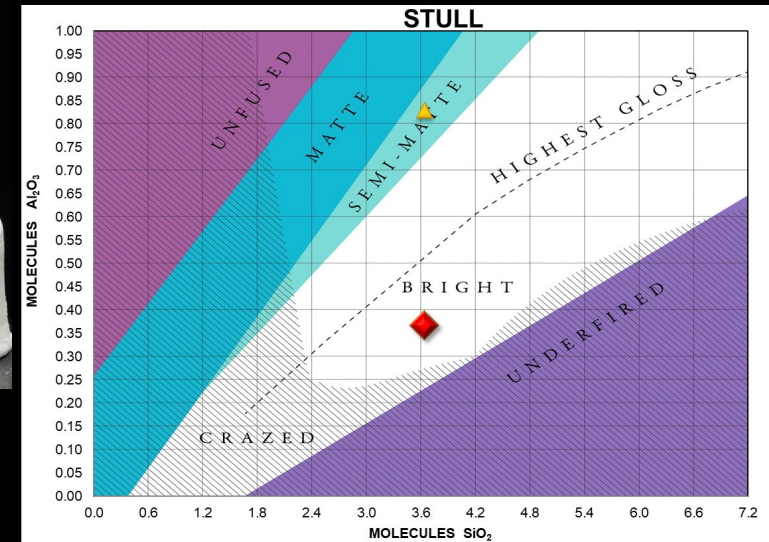
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.90 :1		Alkali Metals 0.30		Alkaline Earths 0.70	
SiO ₂ 3.64	Collective "Al ₂ O ₃ " 0.37	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.37	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 4.38 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.64	Collective "Al ₂ O ₃ " 0.83	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.37	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.46	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Mapping
Kaolin 4

062822-30

Neph Sy	36.94
Whiting	18.38
EPK	10.94
Flint	33.74
Light Rutile	11.16
Water	60



1-3 Second Dip



2-3 Second Dips



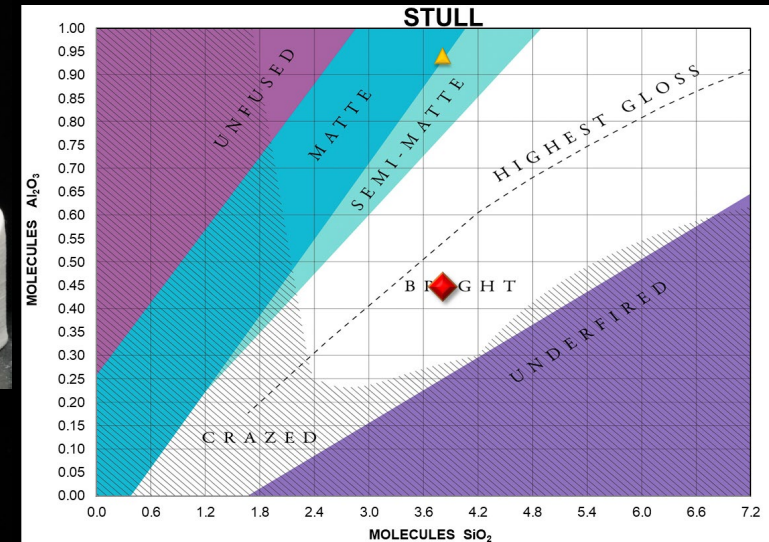
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.52 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.82	Collective "Al ₂ O ₃ " 0.45	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.45	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 4.05 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.81	Collective "Al ₂ O ₃ " 0.94	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.45	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.50	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Mapping
Kaolin 5

062822-31

Neph Sy	35.02
Whiting	17.43
EPK	15.56
Flint	31.99
Light Rutile	11.10
Water	60



1-3 Second Dip



2-3 Second Dips



1-3 Second Dip



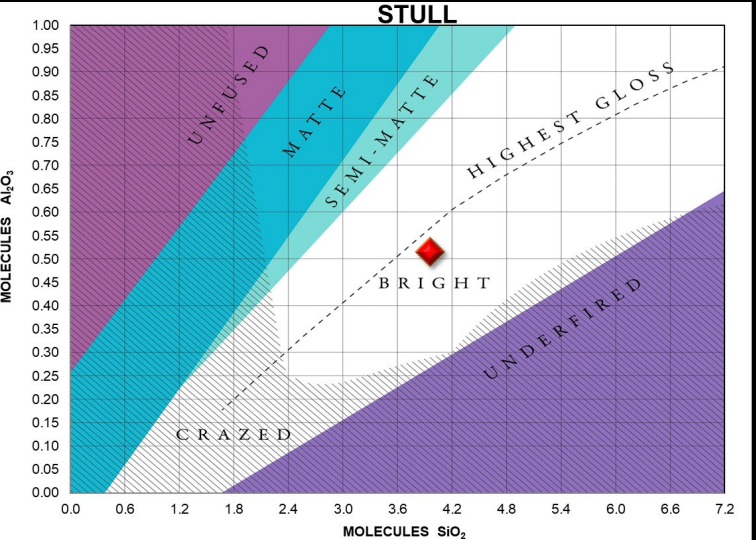
2-3 Second Dips

Oxidation

Reduction

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.66 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.97	Collective "Al ₂ O ₃ " 0.52	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.51	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 3.84 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 3.96	Collective "Al ₂ O ₃ " 1.03	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.51	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.52	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Mapping
Kaolin 6

062822-32

Neph Sy	33.30
Whiting	16.57
EPK	19.72
Flint	30.41
Light Rutile	11.14
Water	60



1-3 Second Dip



2-3 Second Dips



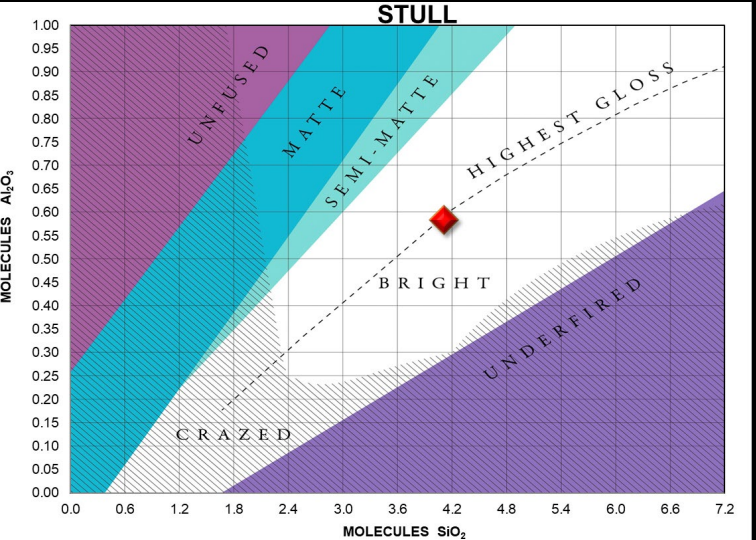
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.02 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 4.12	Collective "Al ₂ O ₃ " 0.59	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.58	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 3.64 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 4.11	Collective "Al ₂ O ₃ " 1.13	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.00	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.58	Li ₂ O	CuO	SrO	BaO
TiO ₂	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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Mapping
Kaolin 7

062822-33

Neph Sy	31.73
Whiting	15.79
EPK	23.50
Flint	28.98
Light Rutile	11.14
Water	60



1-3 Second Dip



2-3 Second Dips



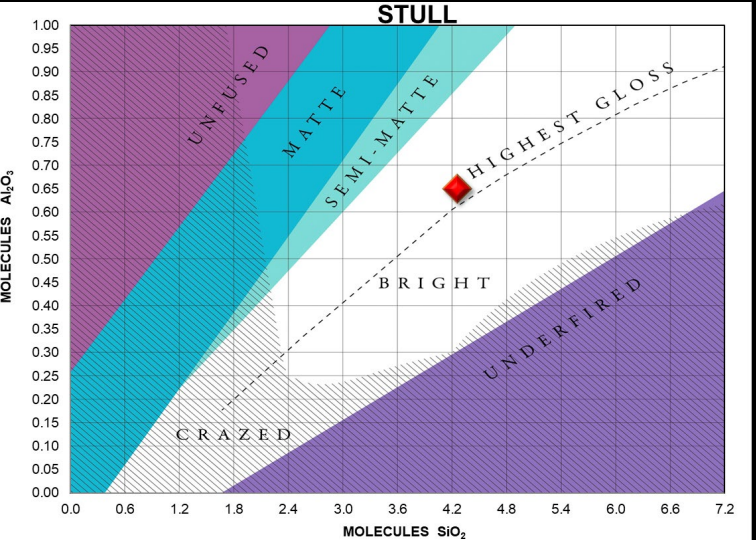
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 6.51 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 4.26	Collective "Al ₂ O ₃ " 0.65	Na ₂ O 0.23	K ₂ O 0.07	MgO 0.01	CaO 0.69
B ₂ O ₃	Al ₂ O ₃ 0.65	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 3.76 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 4.26	Collective "Al ₂ O ₃ " 1.13	Na ₂ O 0.22	K ₂ O 0.07	MgO 0.01	CaO 0.68
B ₂ O ₃	Al ₂ O ₃ 0.65	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.48	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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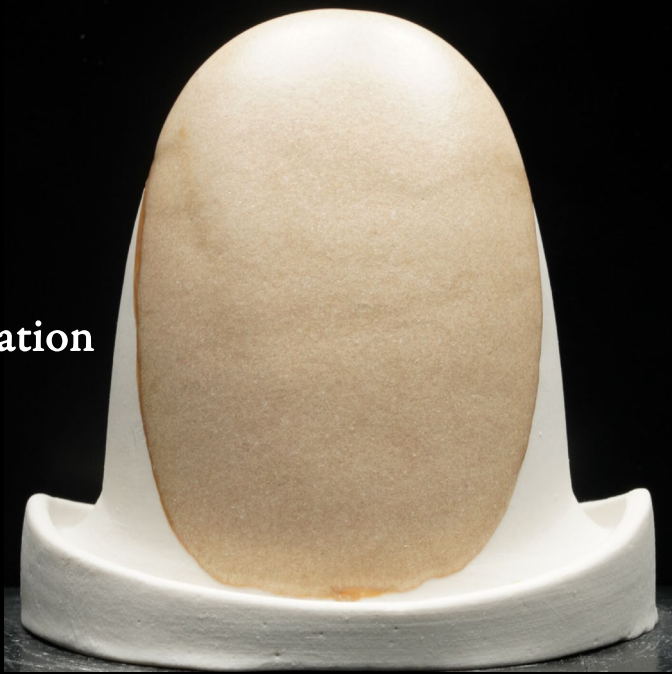
Mapping
Kaolin 8

062822-34

Neph Sy	30.31
Whiting	15.08
EPK	26.93
Flint	27.68
Light Rutile	11.13
Water	60



1-3 Second Dip



2-3 Second Dips



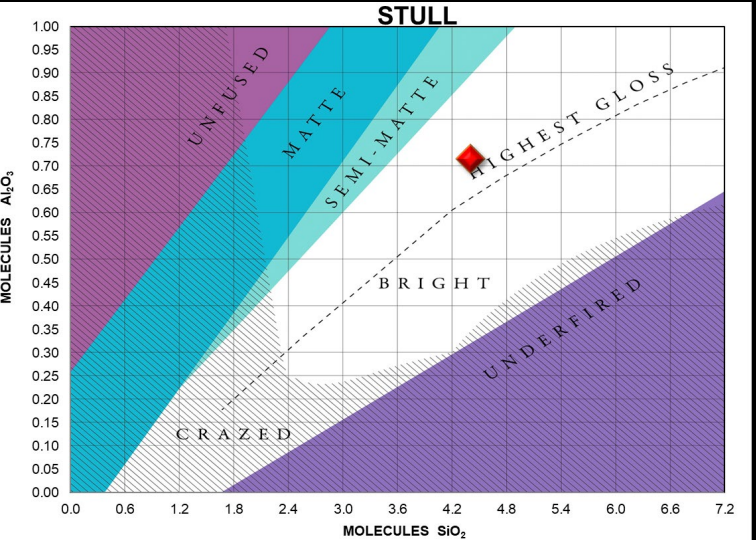
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 6.10 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 4.41	Collective "Al ₂ O ₃ " 0.72	Na ₂ O 0.22	K ₂ O 0.07	MgO 0.01	CaO 0.68
B ₂ O ₃	Al ₂ O ₃ 0.72	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.01	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 3.36 :1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO ₂ 4.40	Collective "Al ₂ O ₃ " 1.31	Na ₂ O 0.22	K ₂ O 0.07	MgO 0.01	CaO 0.68
B ₂ O ₃	Al ₂ O ₃ 0.72	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.59	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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