

Absence- Δ 10

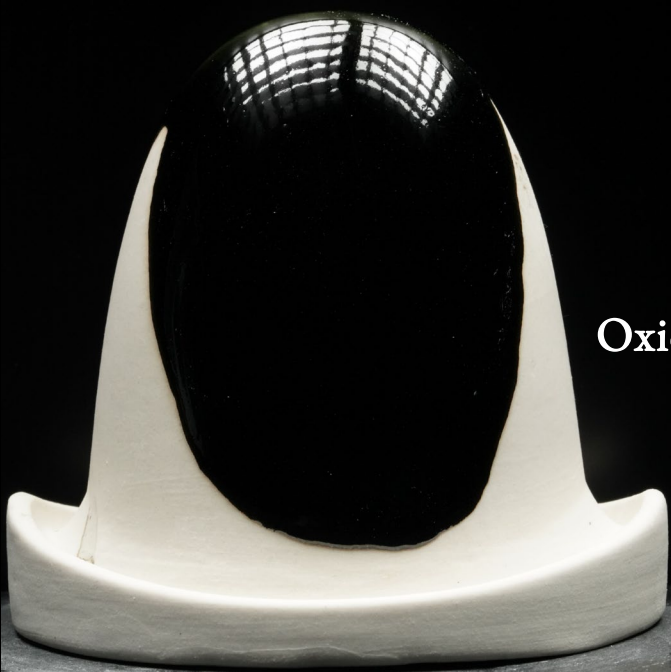
Lab 3-Sili-Closeness

Absence

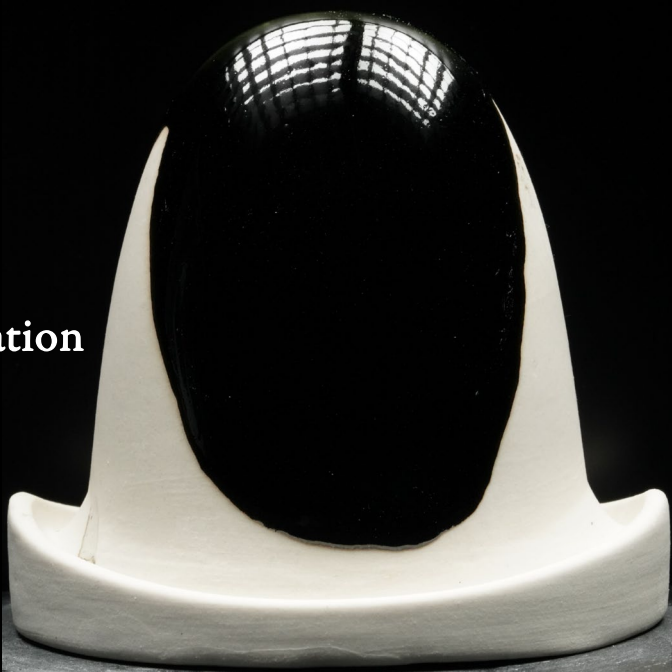
Original

062422-1

G200 EU	59.37
Whiting	18.04
EPK	3.55
Flint	19.05
Red Iron Oxide	7.68
Cobalt Carbonate	1.97
Water	60



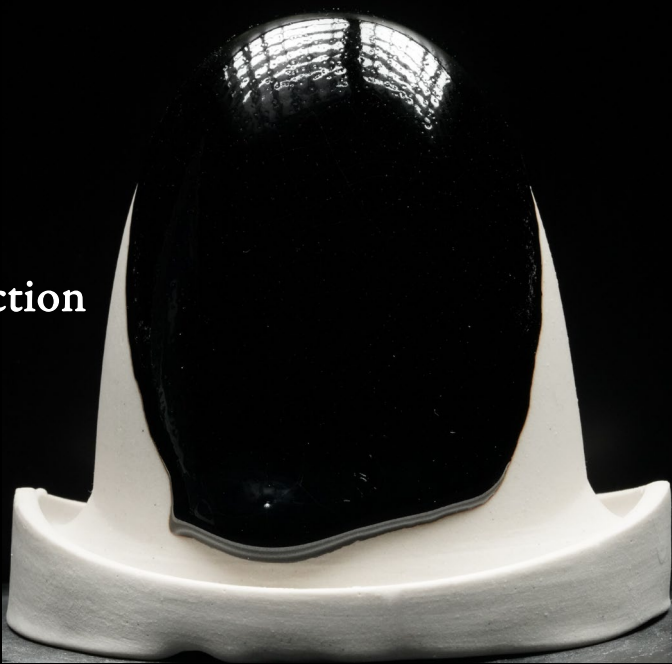
1-3 Second Dip



2-3 Second Dips

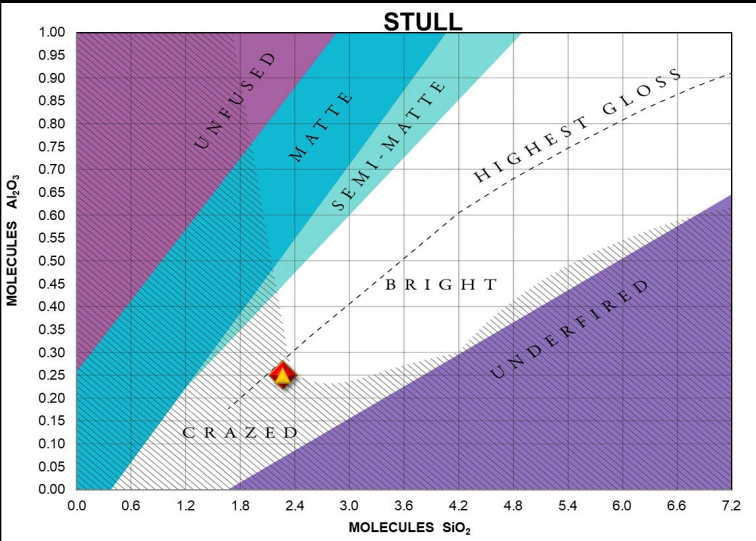


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.06 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 3.66	Collective "Al ₂ O ₃ " 0.40	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.00	CaO 0.67
B ₂ O ₃	Al ₂ O ₃ 0.40	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 9.06 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.27	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.04	K ₂ O 0.15	MgO 0.00	CaO 0.41
B ₂ O ₃	Al ₂ O ₃ 0.25	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.35
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04

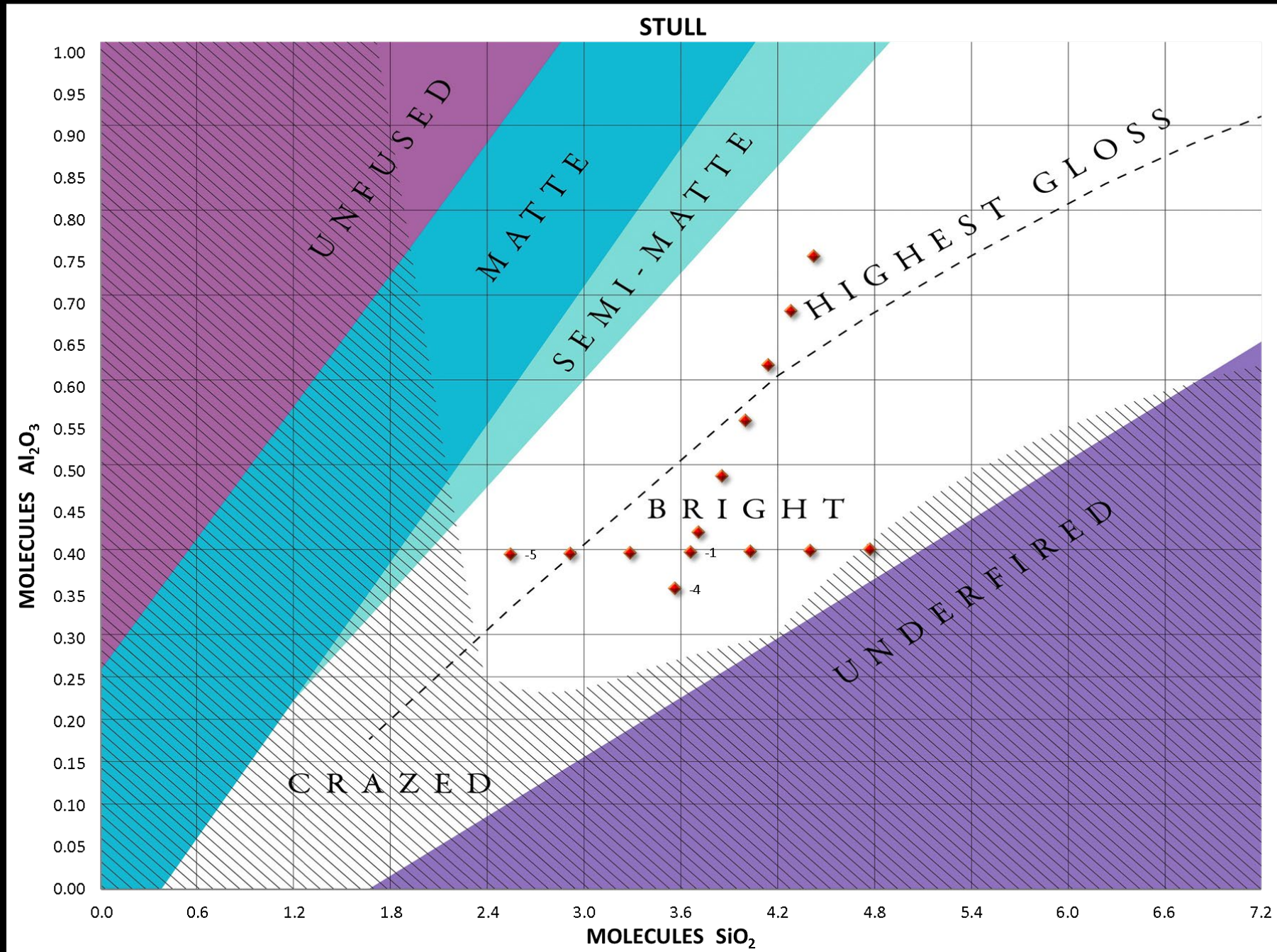


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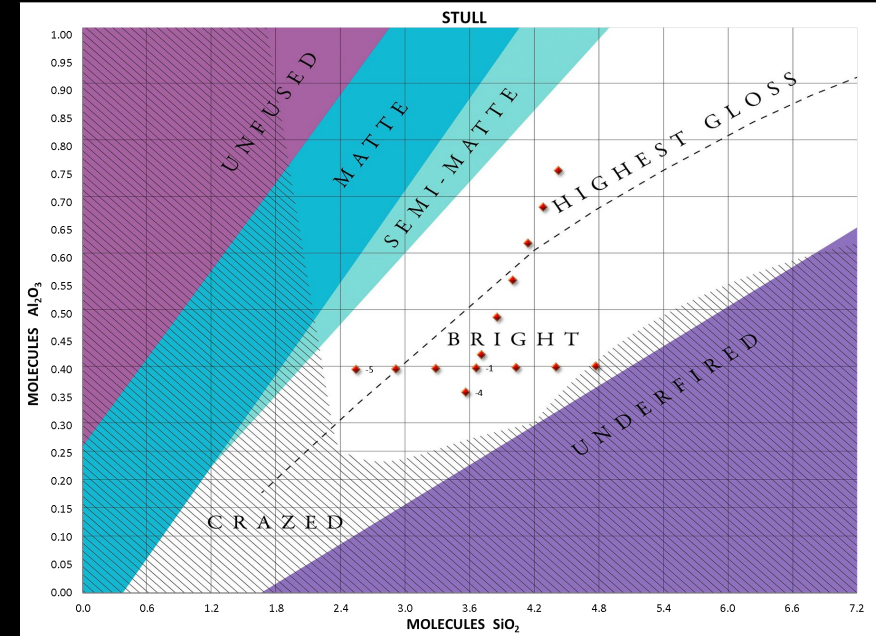
UMF



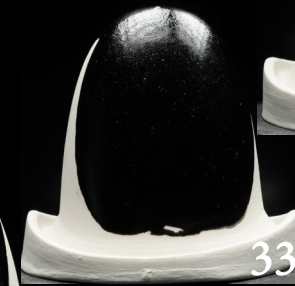
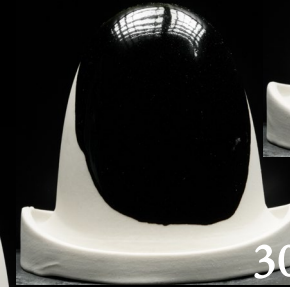
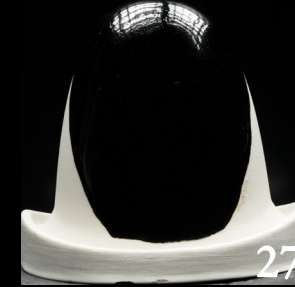
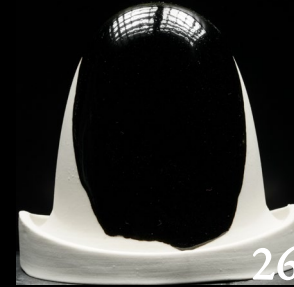
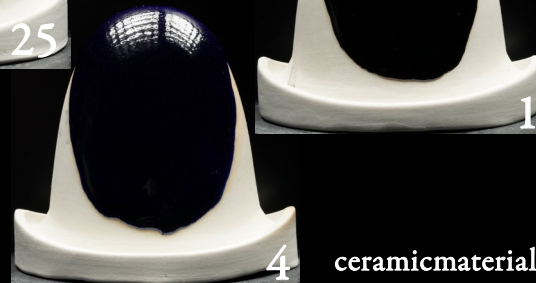
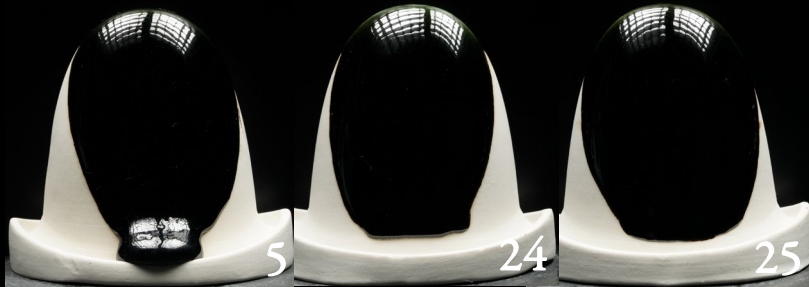
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Full Test-Oxidation-1-3 Second Dip



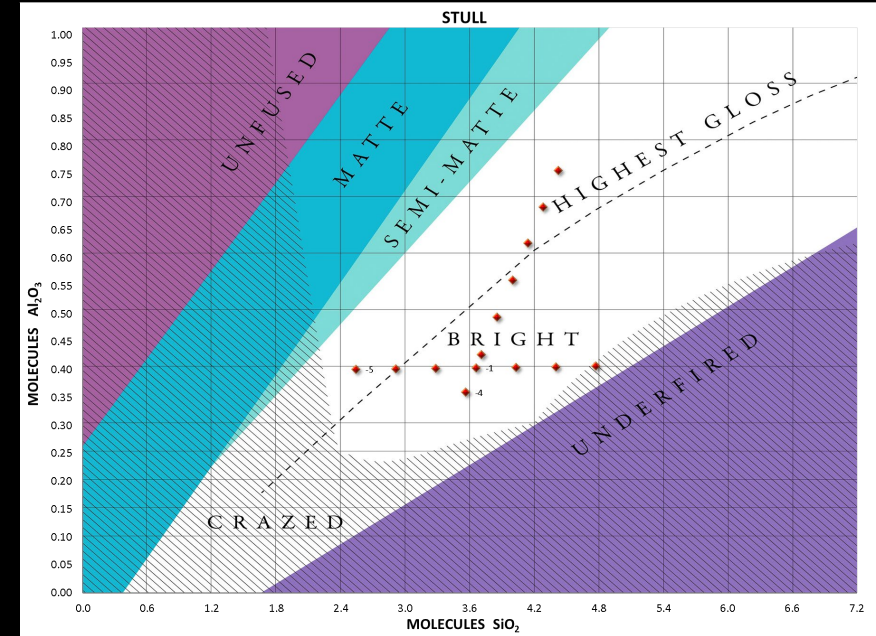
Indicates correct position of Alumina samples



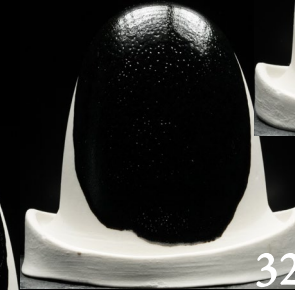
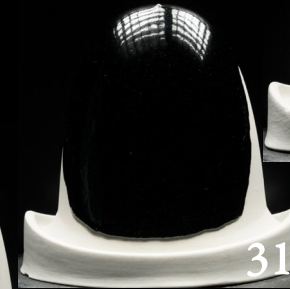
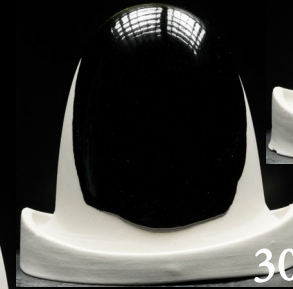
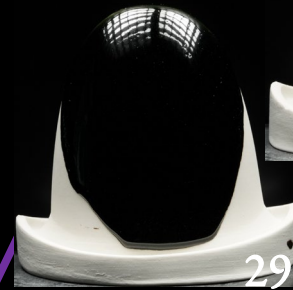
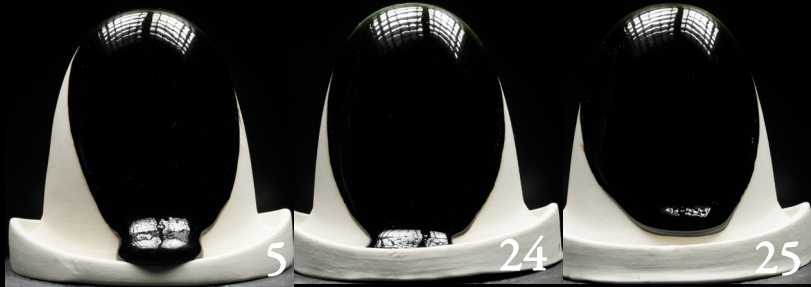
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Full Test-Oxidation-2-3 Second Dips



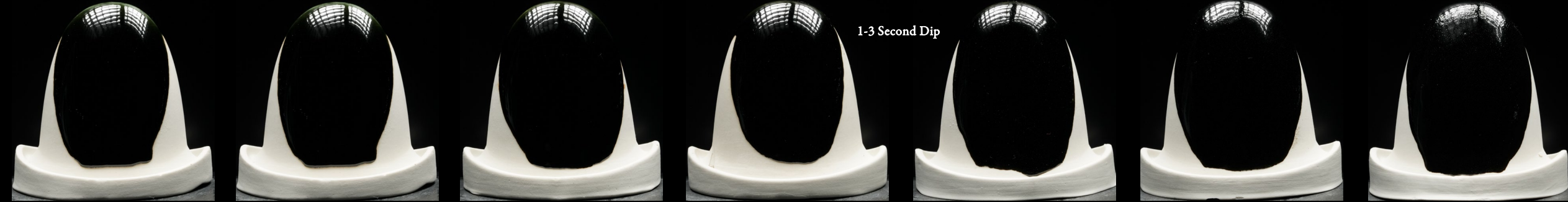
Indicates correct position of Alumina samples



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Silica Variations-Oxidation



062422-5

062422-24

062422-25

062422-1

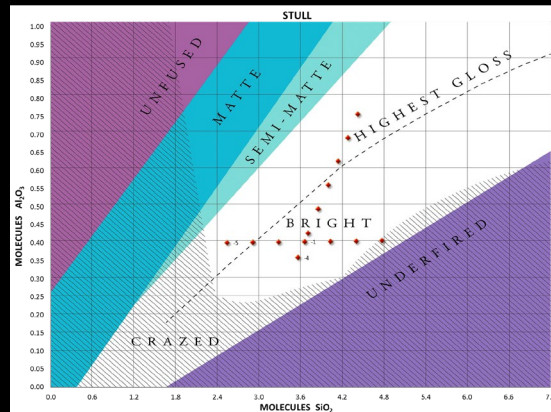
062422-26

062422-27

062422-28

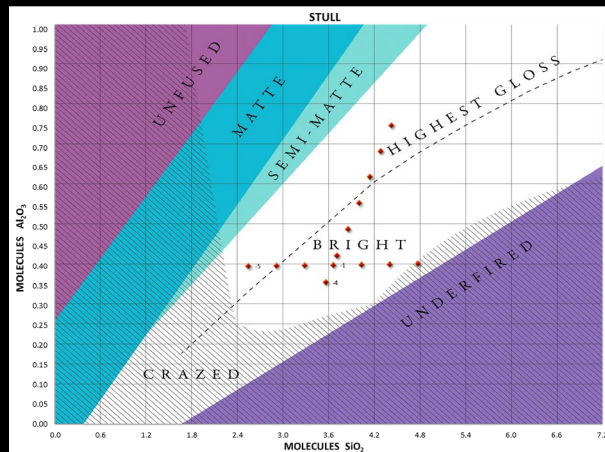
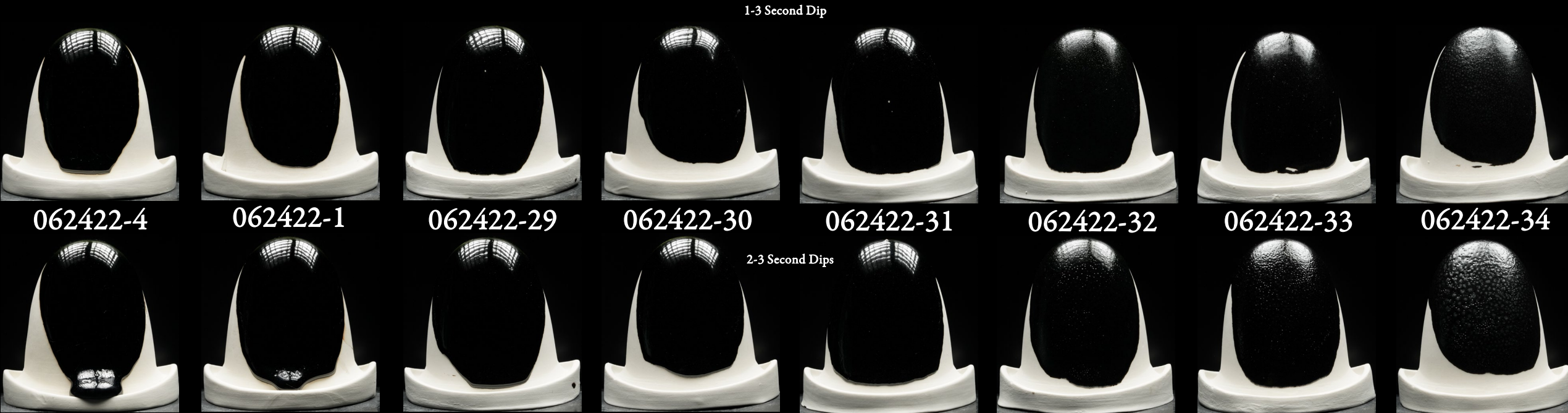


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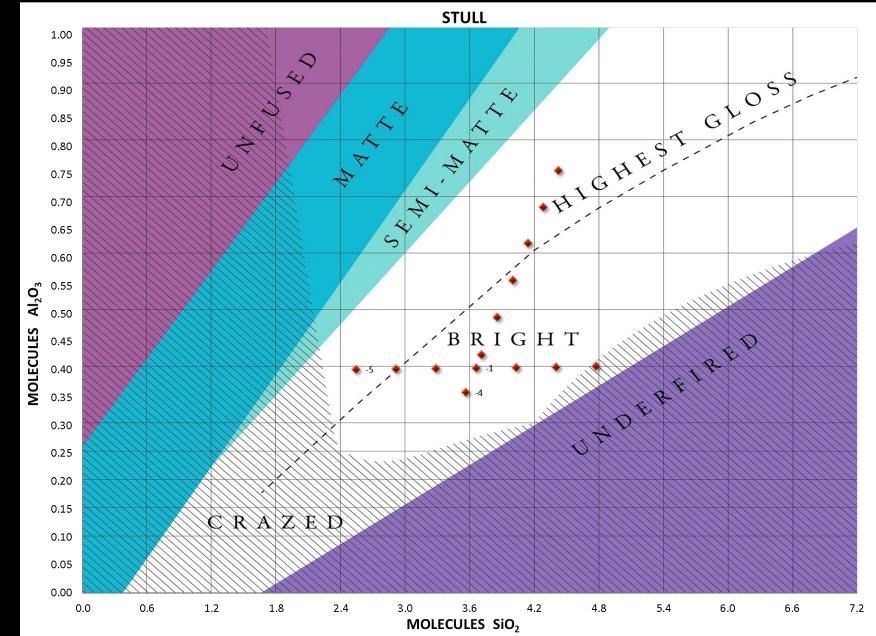


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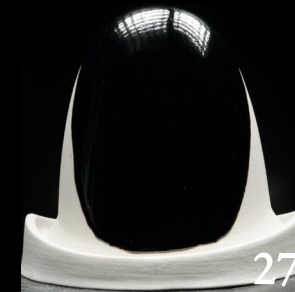
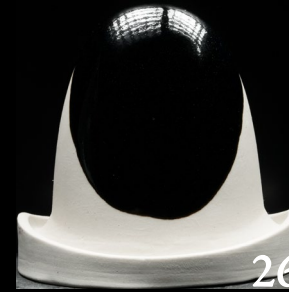
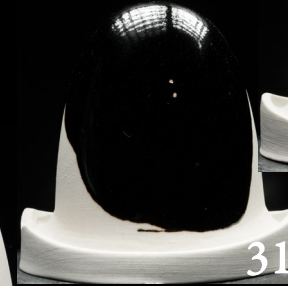
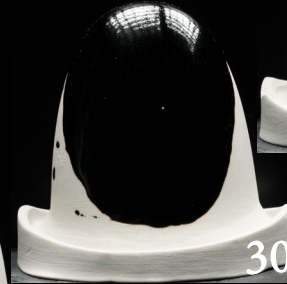
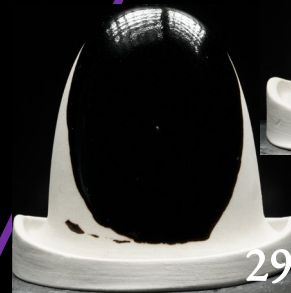
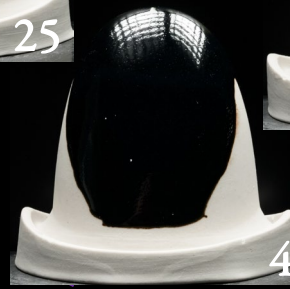
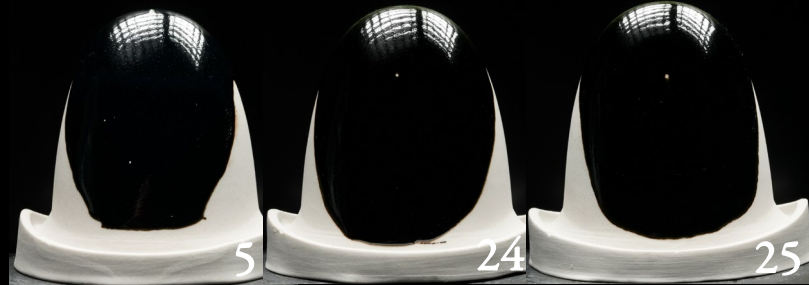
Alumina Variations-Oxidation



Full Test-Reduction-1-3 Second Dip



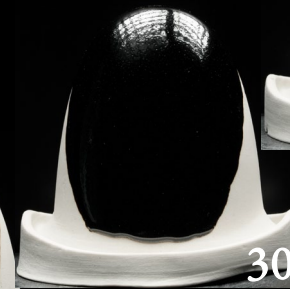
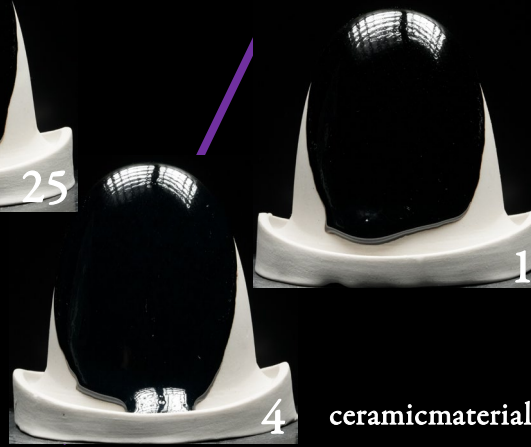
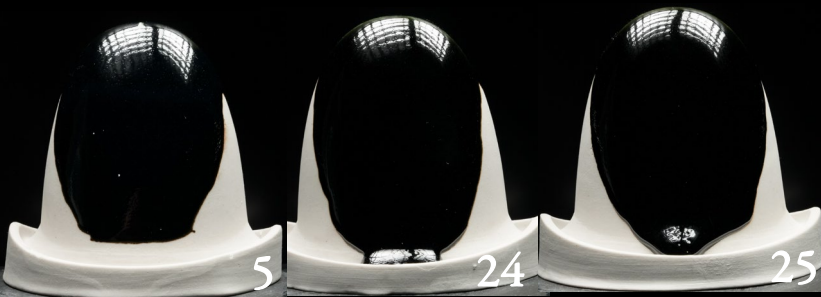
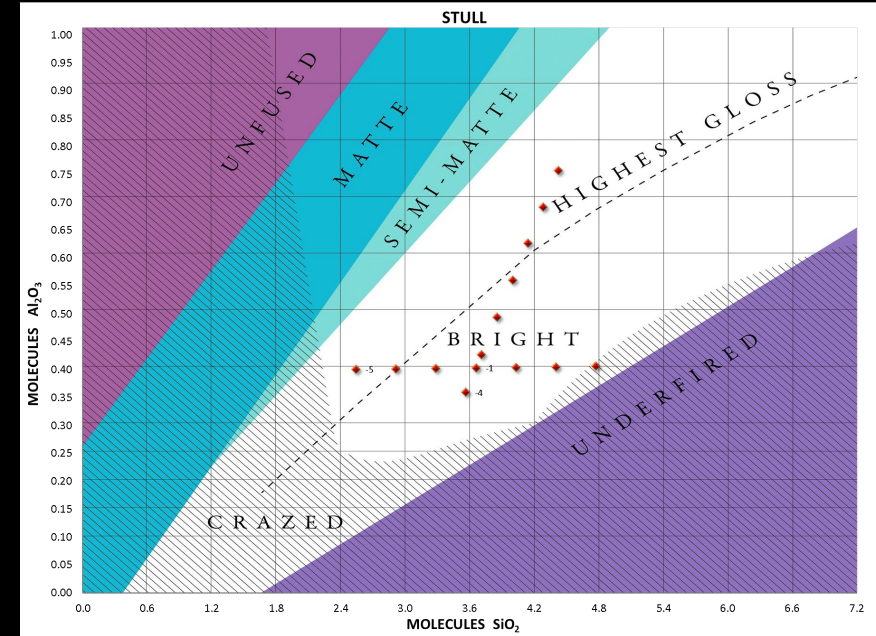
Indicates correct position of Alumina samples



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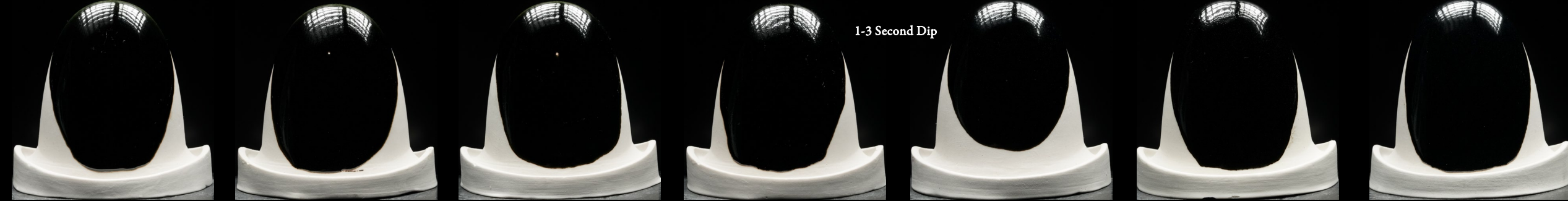
Full Test-Reduction-2-3 Second Dips



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Silica Variations-Reduction



1-3 Second Dip

062422-5

062422-24

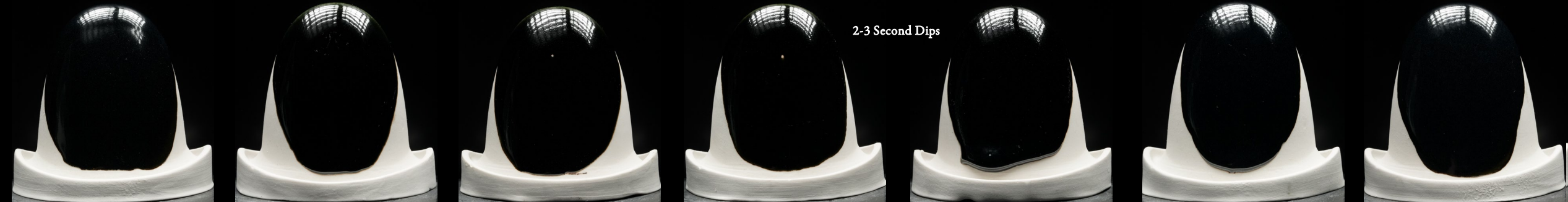
062422-25

062422-1

062422-26

062422-27

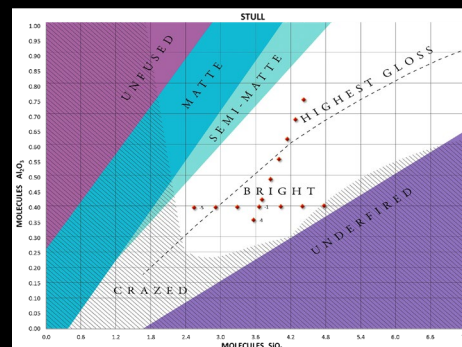
062422-28



2-3 Second Dips

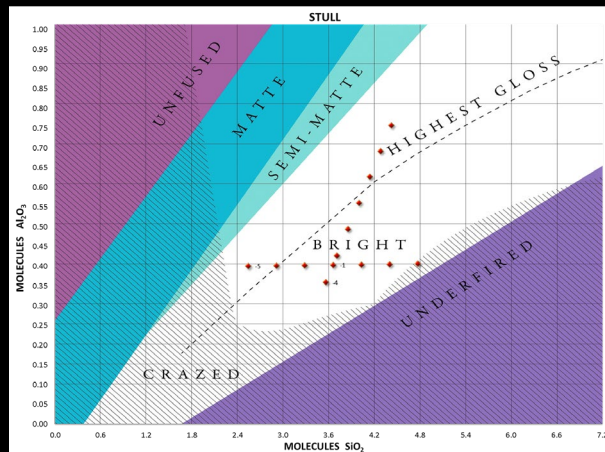
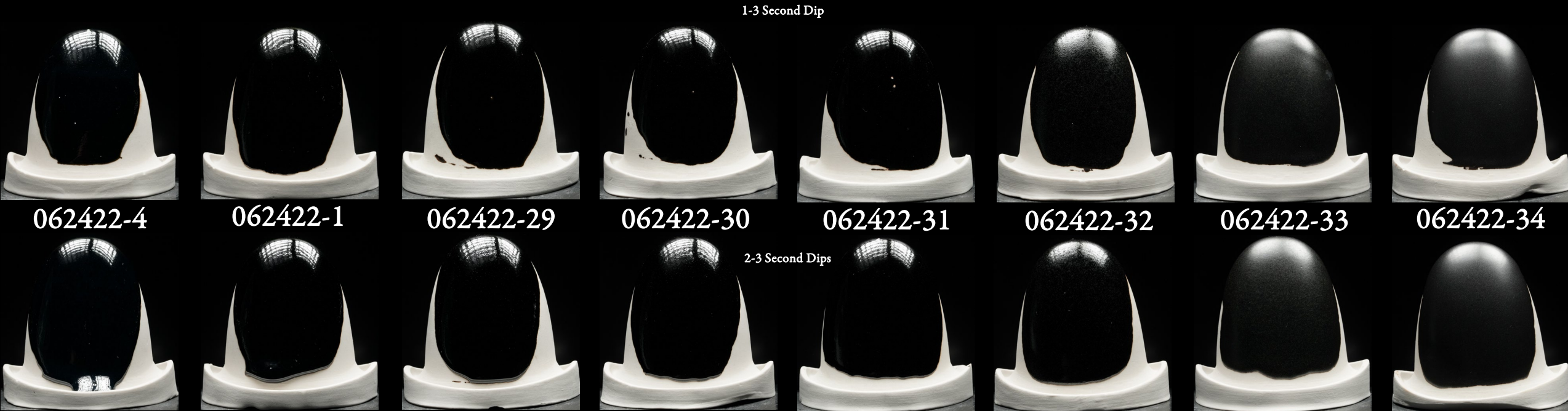


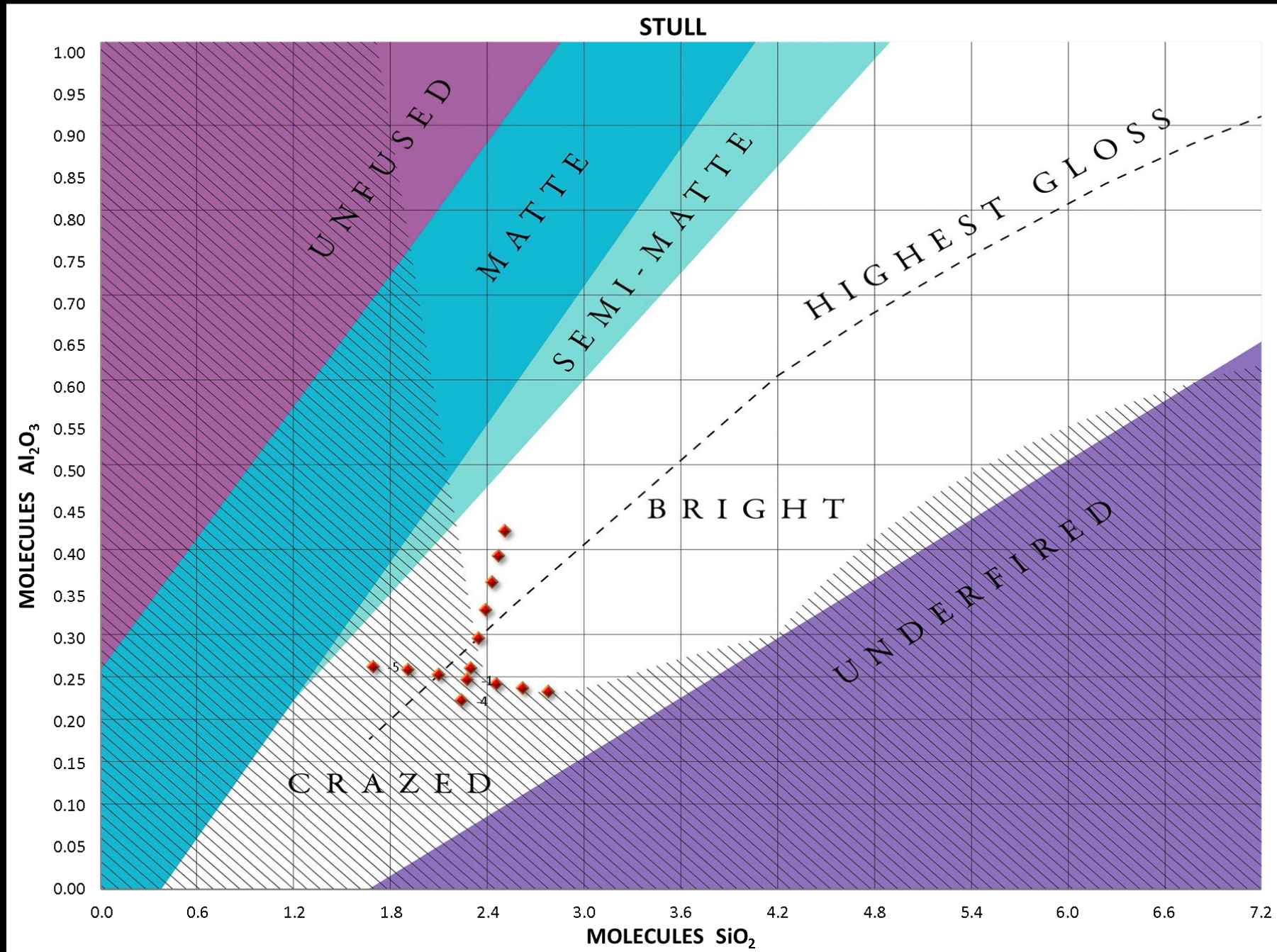
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Alumina Variations-Reduction



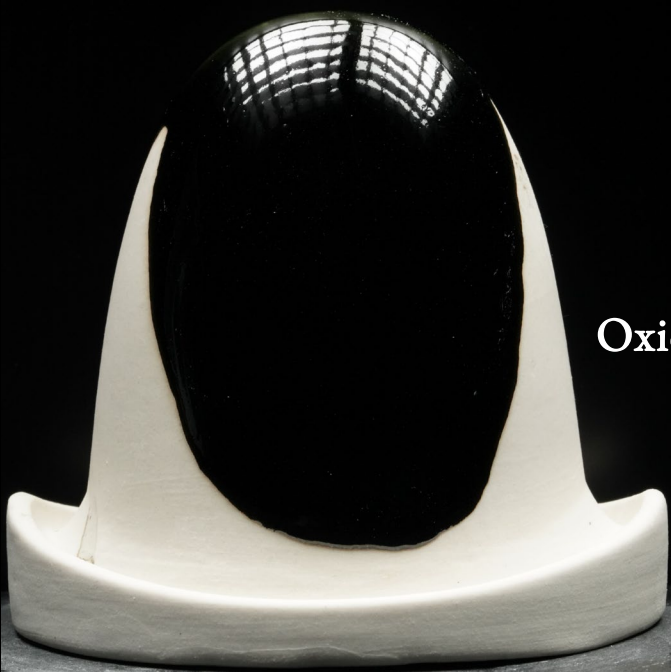


Absence

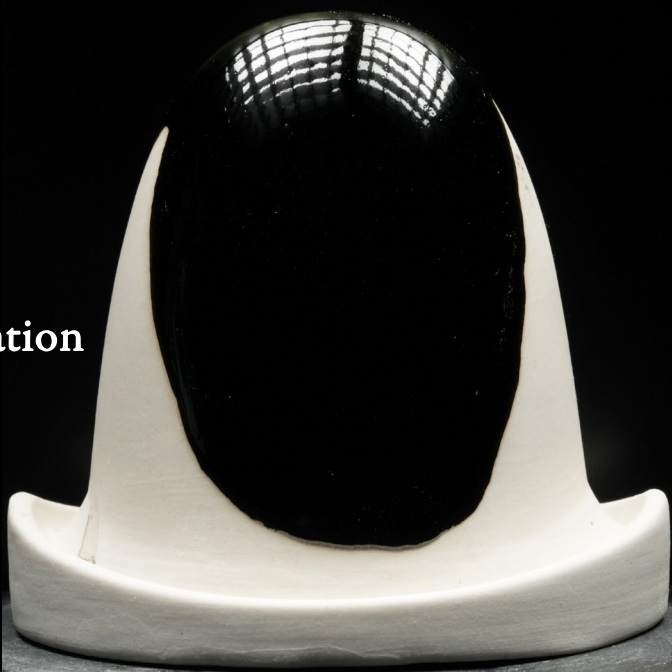
Original

062422-1

G200 EU	59.37
Whiting	18.04
EPK	3.55
Flint	19.05
Red Iron Oxide	7.68
Cobalt Carbonate	1.97
Water	60



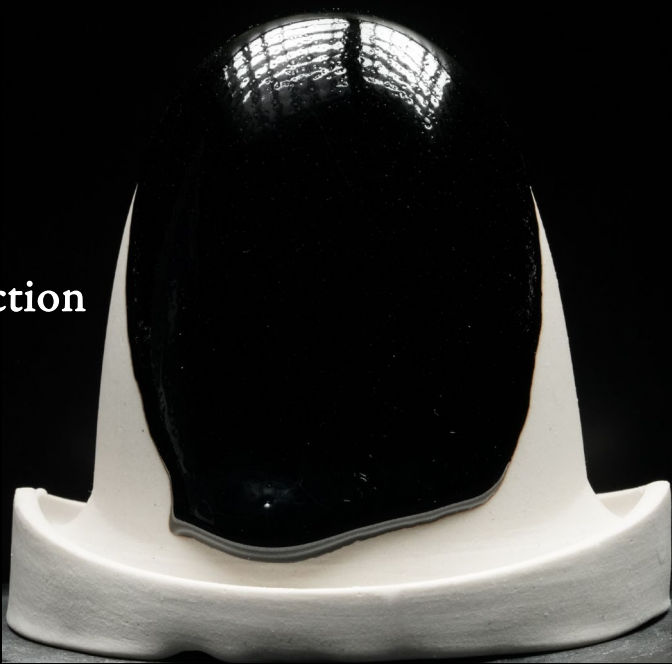
1-3 Second Dip



2-3 Second Dips



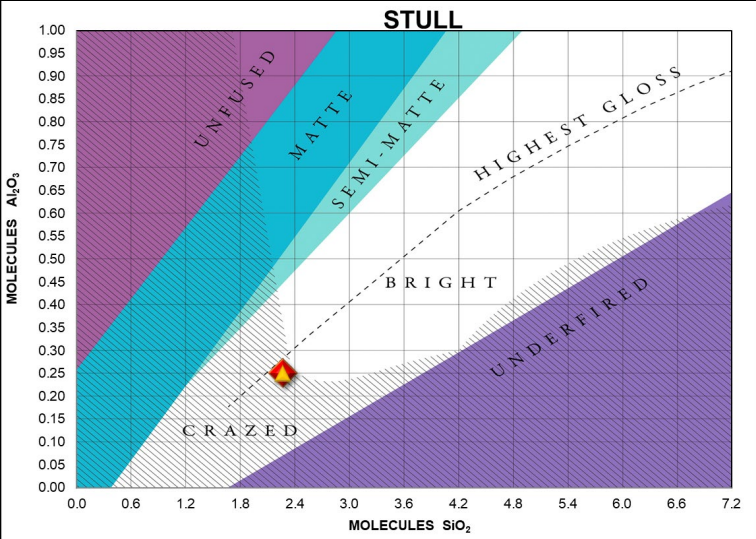
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.06 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 3.66	Collective "Al ₂ O ₃ " 0.40	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.00	CaO 0.67
B ₂ O ₃	Al ₂ O ₃ 0.40	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 9.06 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.27	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.04	K ₂ O 0.15	MgO 0.00	CaO 0.41
B ₂ O ₃	Al ₂ O ₃ 0.25	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.35
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04



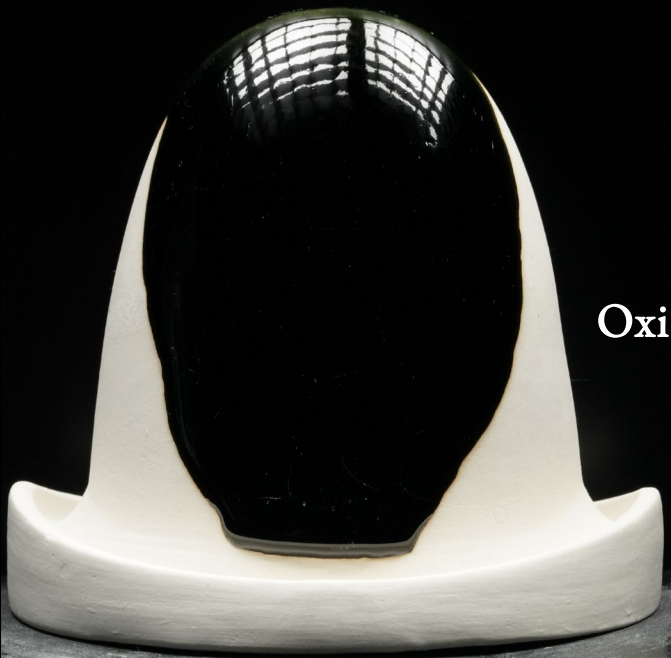
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Absence

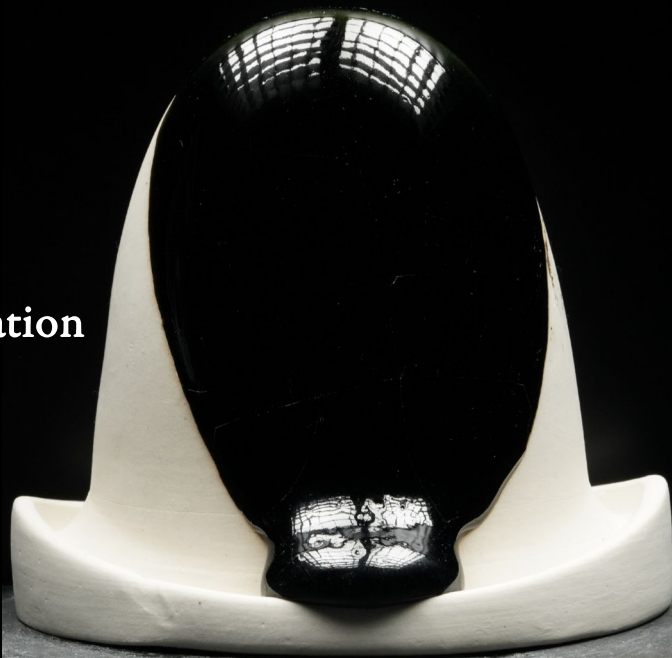
w/o Kaolin

062422-4

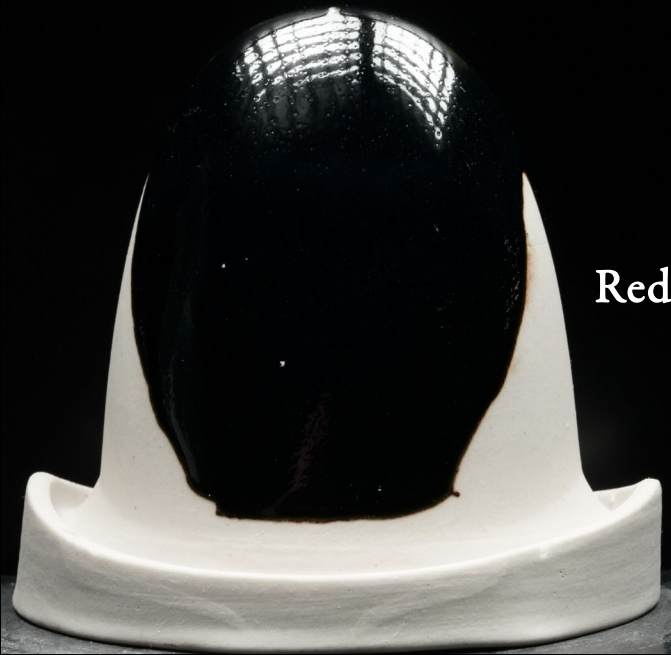
G200 EU	61.55
Whiting	18.70
EPK	
Flint	19.75
Red Iron Oxide	7.70
Cobalt Carbonate	1.98
Water	60



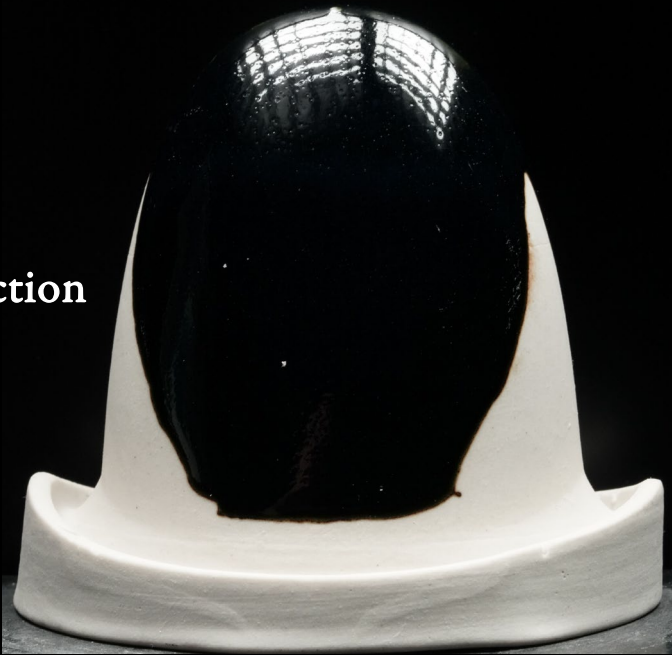
1-3 Second Dip



2-3 Second Dips



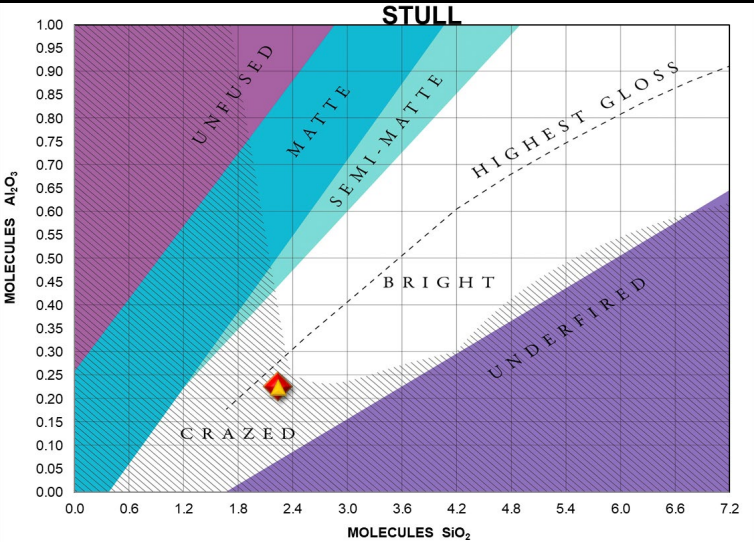
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.91 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 3.56	Collective "Al ₂ O ₃ " 0.36	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.00	CaO 0.67
B ₂ O ₃	Al ₂ O ₃ 0.36	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 9.91 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.24	Collective "Al ₂ O ₃ " 0.23	Na ₂ O 0.05	K ₂ O 0.16	MgO 0.00	CaO 0.42
B ₂ O ₃	Al ₂ O ₃ 0.23	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.34
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04



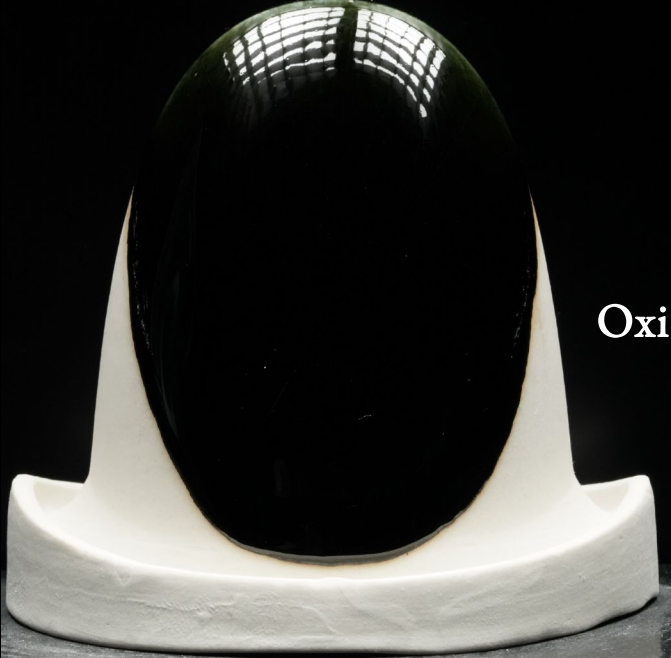
Ceramic
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Absence

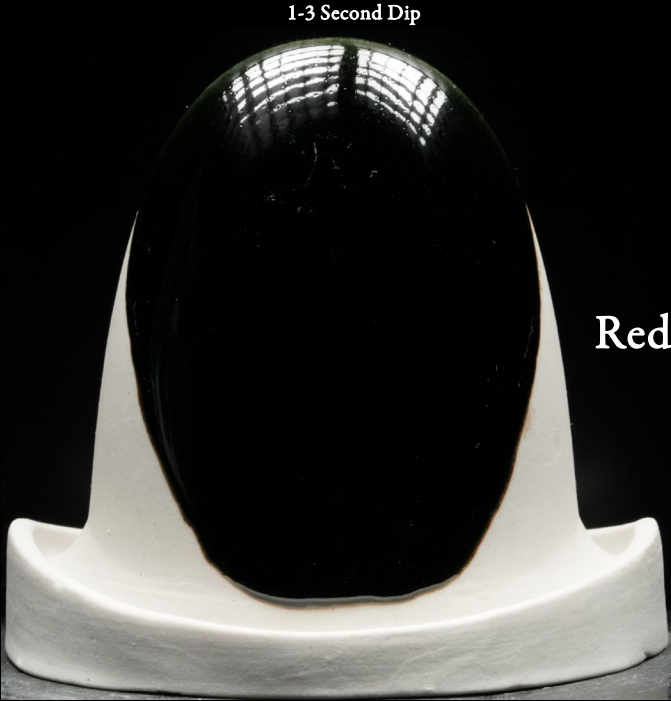
w/o Silica

062422-5

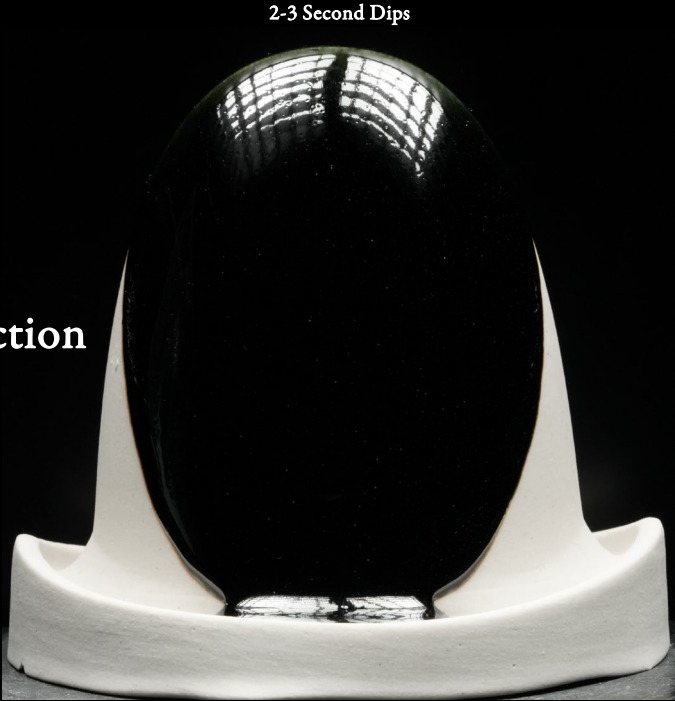
G200 EU	73.34
Whiting	22.28
EPK	4.38
Flint	
Red Iron Oxide	7.83
Cobalt Carbonate	2.01
Water	60



Oxidation

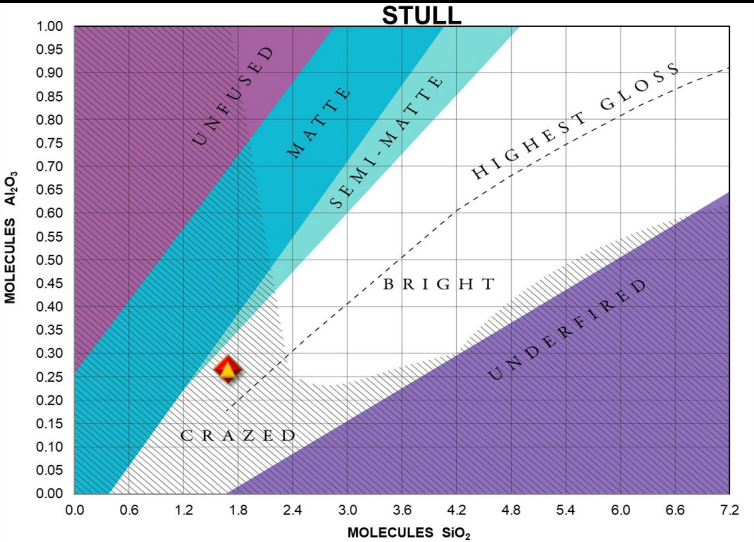


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 6.34 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 2.54	Collective "Al ₂ O ₃ " 0.40	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.00	CaO 0.67
B ₂ O ₃	Al ₂ O ₃ 0.40	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 6.34 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.69	Collective "Al ₂ O ₃ " 0.27	Na ₂ O 0.05	K ₂ O 0.17	MgO 0.00	CaO 0.44
B ₂ O ₃	Al ₂ O ₃ 0.27	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.31
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.03



Ceramic
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Absence

Mapping
Silica 2
062422-24

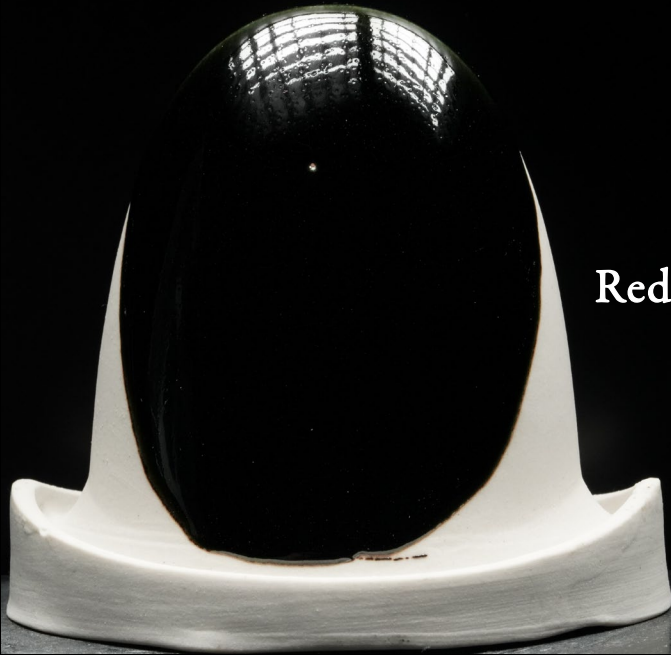
G200 EU	68.00
Whiting	20.66
EPK	4.07
Flint	7.27
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60



1-3 Second Dip



2-3 Second Dips



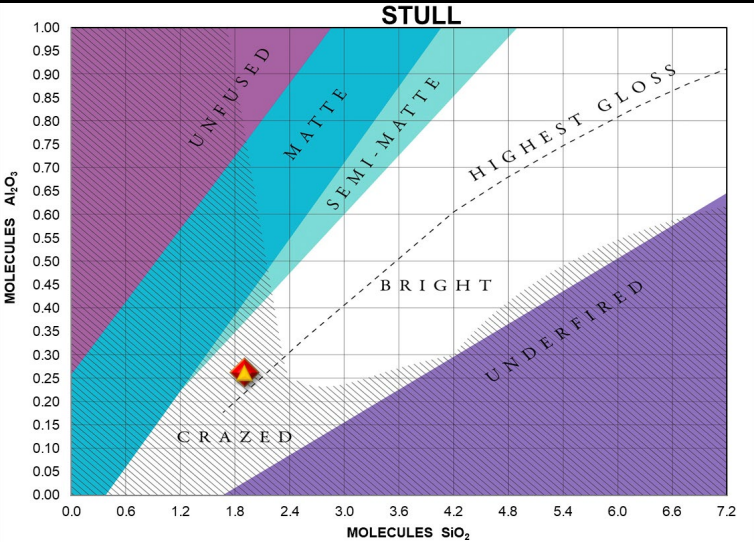
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.25 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 2.91	Collective "Al ₂ O ₃ " 0.40	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.00	CaO 0.67
B ₂ O ₃	Al ₂ O ₃ 0.40	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 7.25 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.90	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.05	K ₂ O 0.16	MgO 0.00	CaO 0.44
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.32
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.03



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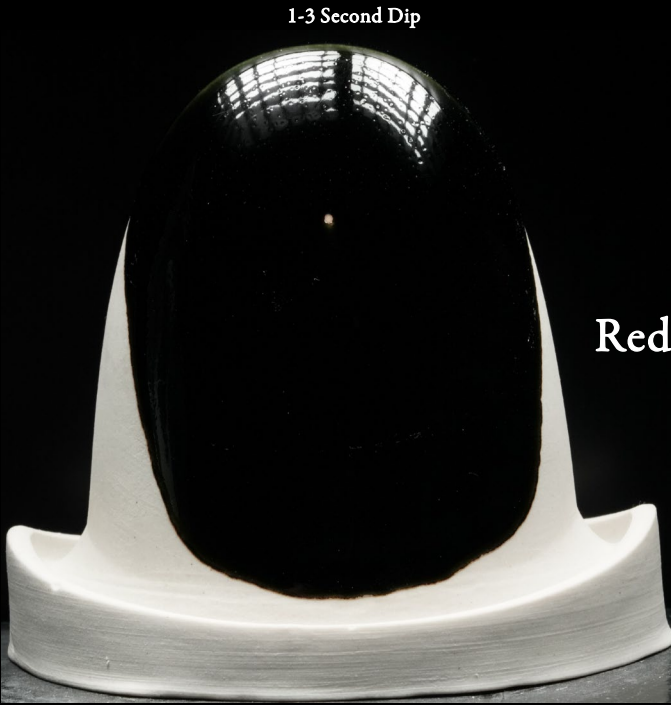
Absence

Mapping
Silica 3
062422-25

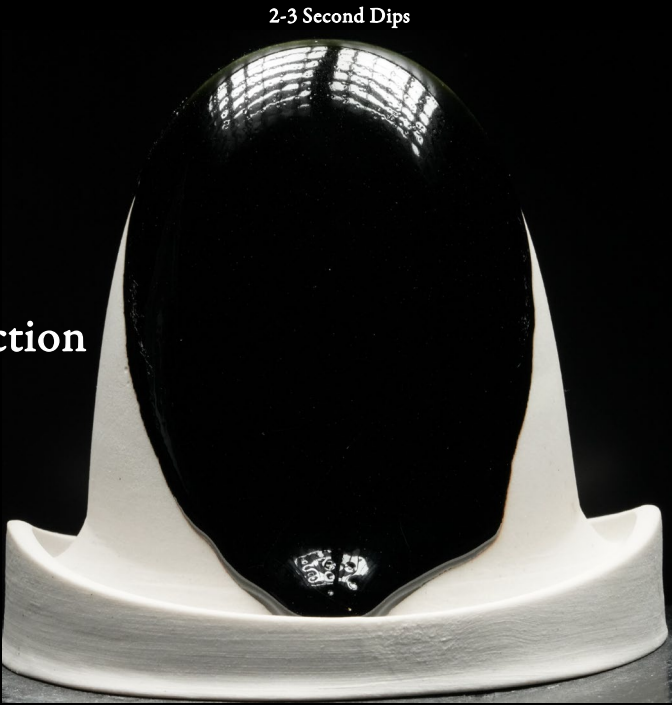
G200 EU	63.39
Whiting	19.26
EPK	3.79
Flint	13.56
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60



Oxidation

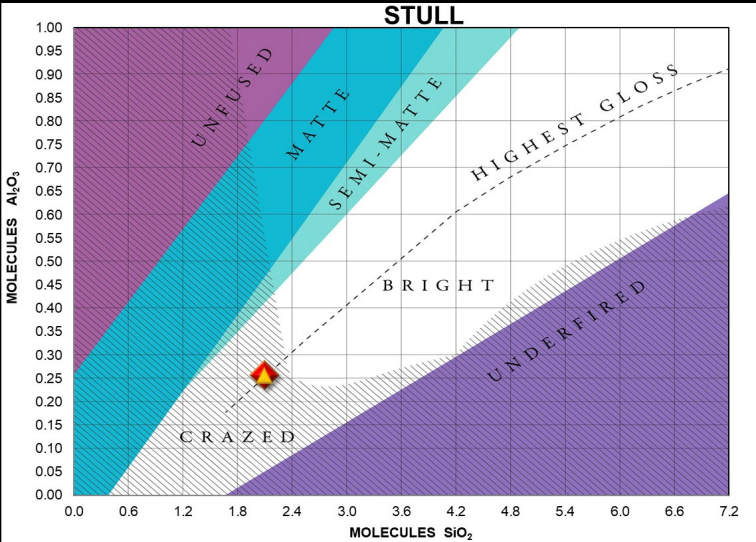


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.16 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 3.28	Collective "Al ₂ O ₃ " 0.40	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.00	CaO 0.67
B ₂ O ₃	Al ₂ O ₃ 0.40	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.01
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 8.16 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.10	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.05	K ₂ O 0.16	MgO 0.00	CaO 0.42
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.33
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04



Ceramic
Materials
Workshop

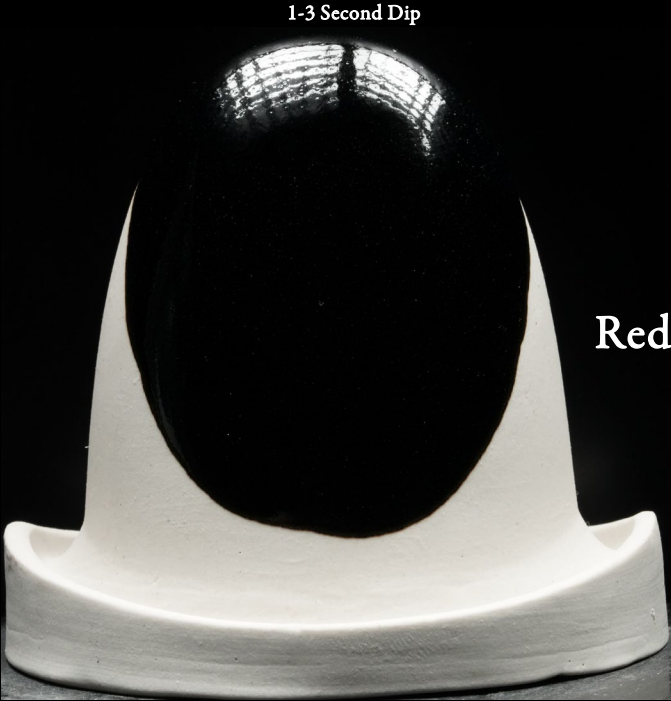
Absence

Mapping
Silica 5
062422-26

G200 EU	55.82
Whiting	16.96
EPK	3.34
Flint	23.88
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60



Oxidation

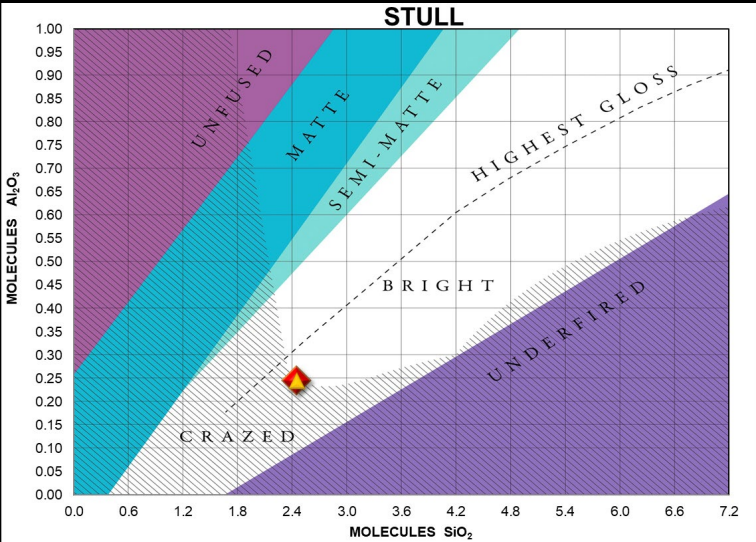


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.96 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 4.03	Collective "Al ₂ O ₃ " 0.40	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.00	CaO 0.67
B ₂ O ₃	Al ₂ O ₃ 0.40	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 9.96 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.45	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.04	K ₂ O 0.15	MgO 0.00	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.25	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.36
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04



Ceramic
Materials
Workshop

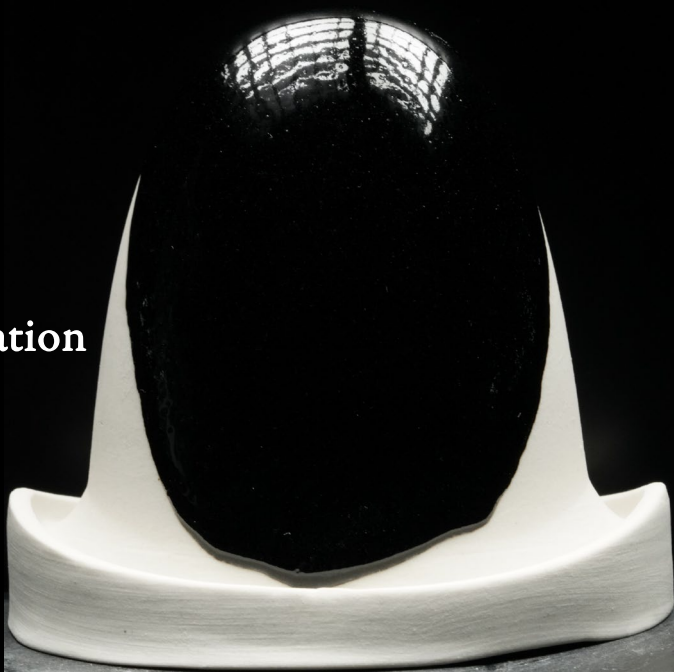
Absence

Mapping
Silica 6
062422-27

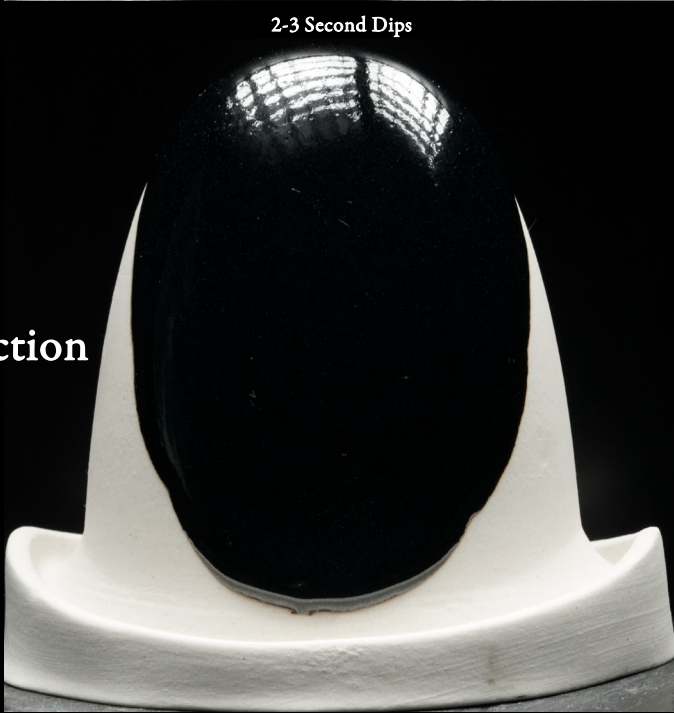
G200 EU	52.68
Whiting	16.00
EPK	3.15
Flint	28.17
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60



Oxidation

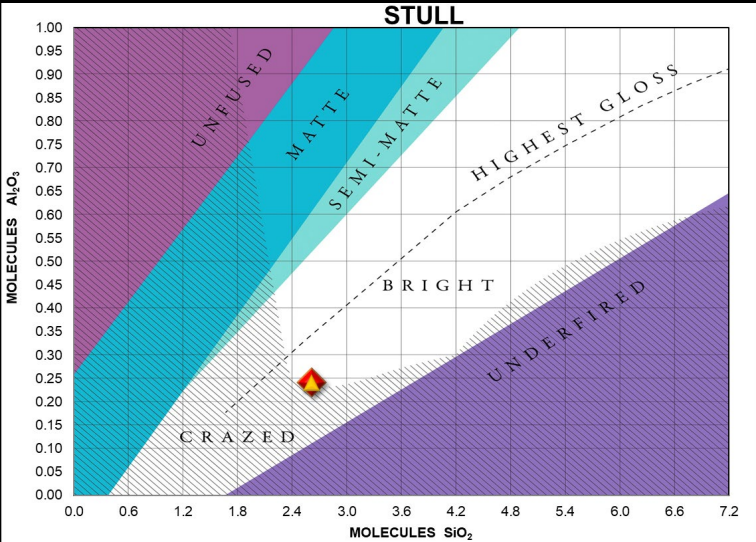


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 10.86 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 4.40	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.01	CaO 0.67
B ₂ O ₃	Al ₂ O ₃ 0.40	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 10.86 : 1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 2.62	Collective "Al ₂ O ₃ " 0.24	Na ₂ O 0.04	K ₂ O 0.15	MgO 0.00	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.24	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.37
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04



Ceramic
Materials
Workshop

Absence

Mapping
Silica 7
062422-28

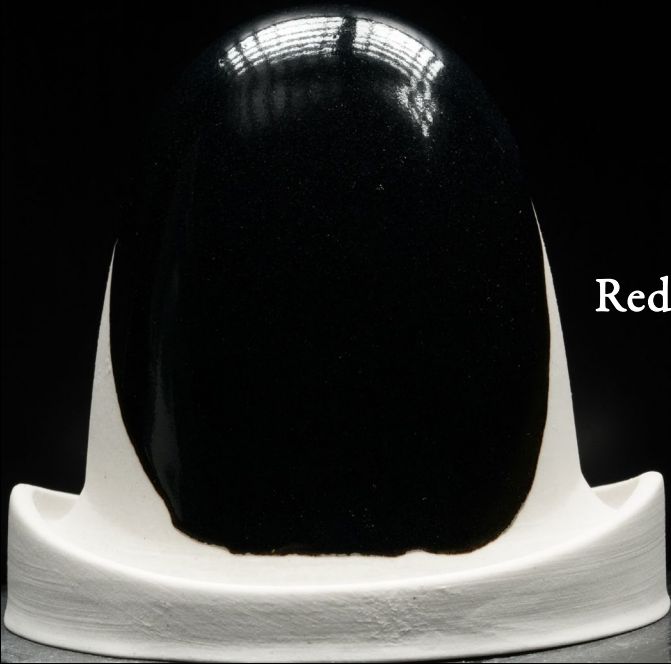
G200 EU	49.87
Whiting	15.15
EPK	2.98
Flint	32.00
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60



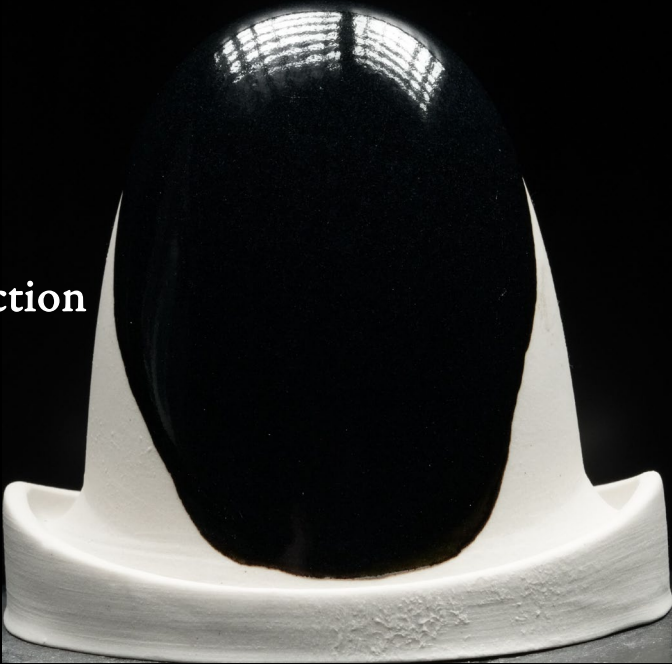
1-3 Second Dip



2-3 Second Dips

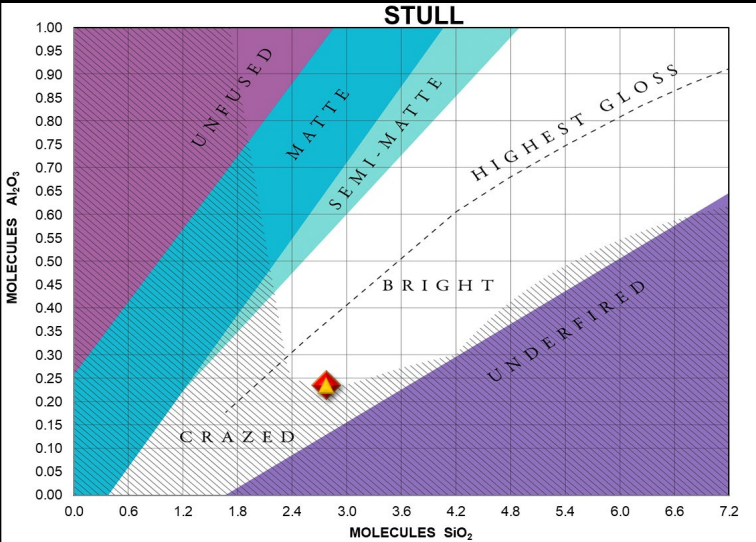


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 11.75 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 4.77	Collective "Al ₂ O ₃ " 0.41	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.01	CaO 0.66
B ₂ O ₃	Al ₂ O ₃ 0.40	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 11.75 : 1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 2.77	Collective "Al ₂ O ₃ " 0.24	Na ₂ O 0.04	K ₂ O 0.14	MgO 0.00	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.24	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.38
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04



Ceramic
Materials
Workshop

Absence

Mapping
Kaolin 3

062422-29

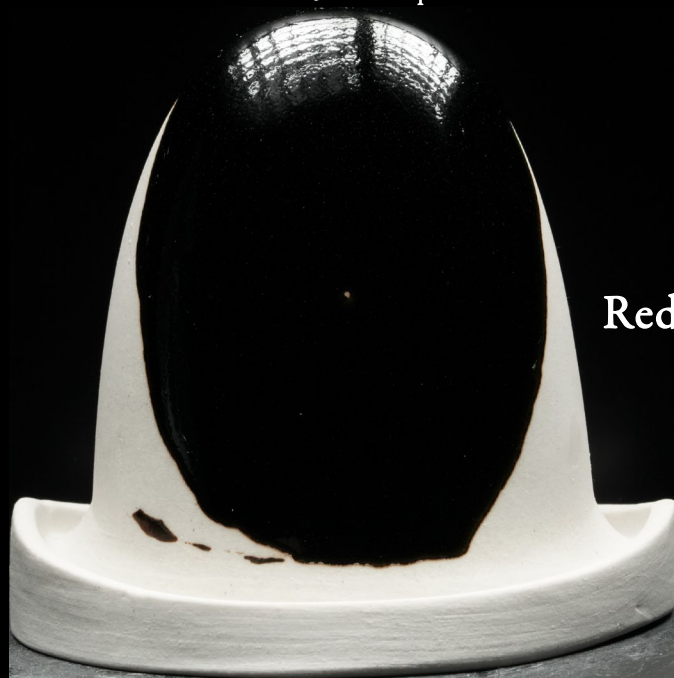
G200 EU	58.24
Whiting	17.69
EPK	5.38
Flint	18.69
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60



1-3 Second Dip



2-3 Second Dips



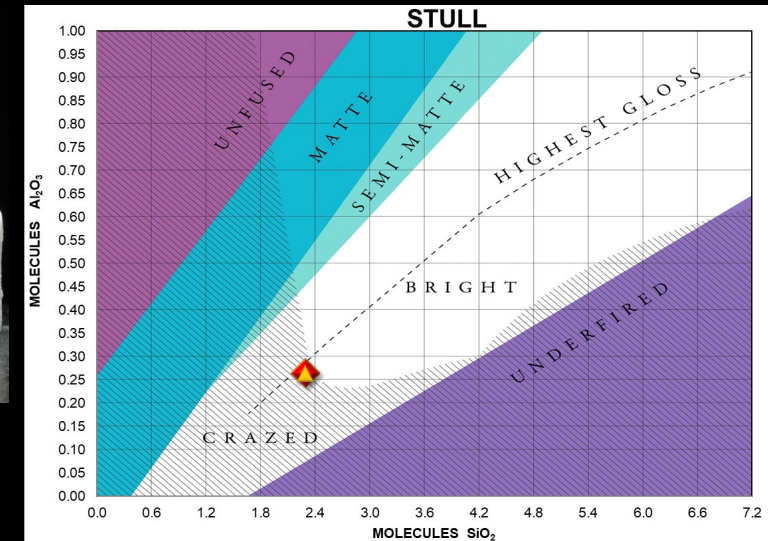
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.68 :1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 3.71	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.01	CaO 0.66
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 8.68 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 2.29	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.04	K ₂ O 0.15	MgO 0.00	CaO 0.41
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.35
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04

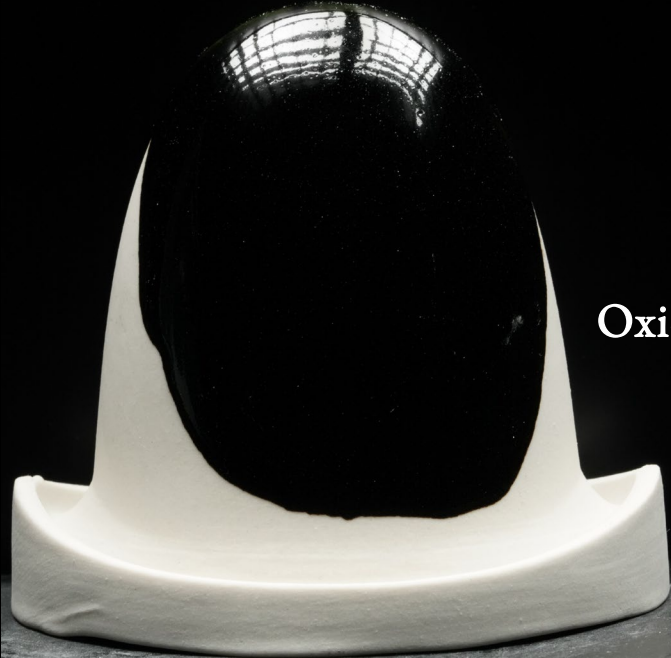


Ceramic
Materials
Workshop

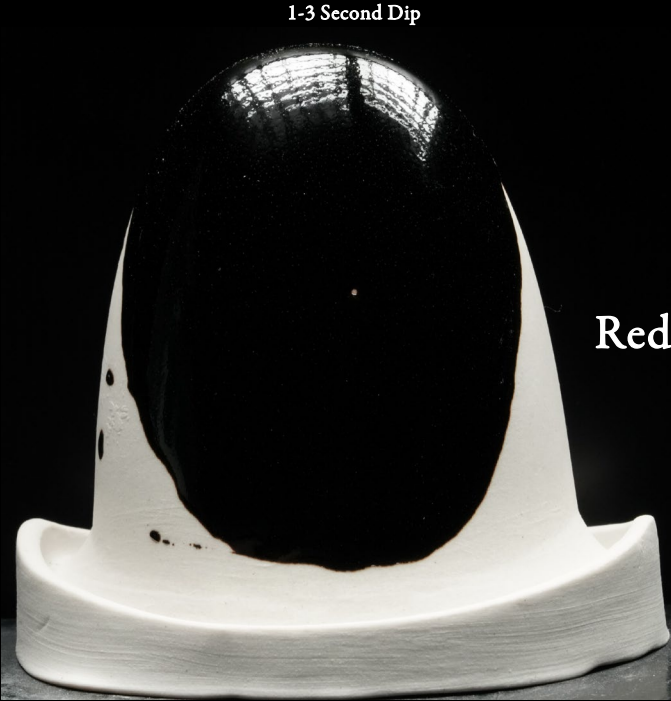
Absence

Mapping
Kaolin 4
062422-30

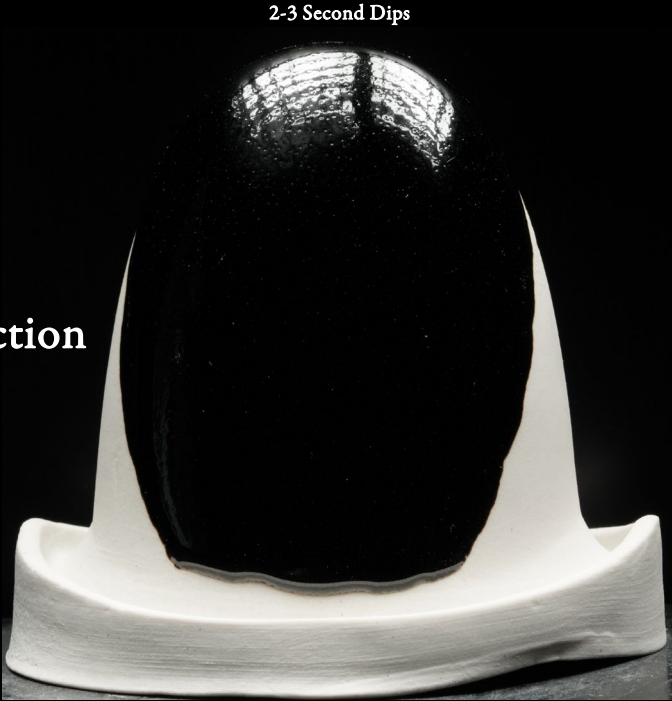
G200 EU	55.26
Whiting	16.79
EPK	10.21
Flint	17.73
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60



Oxidation

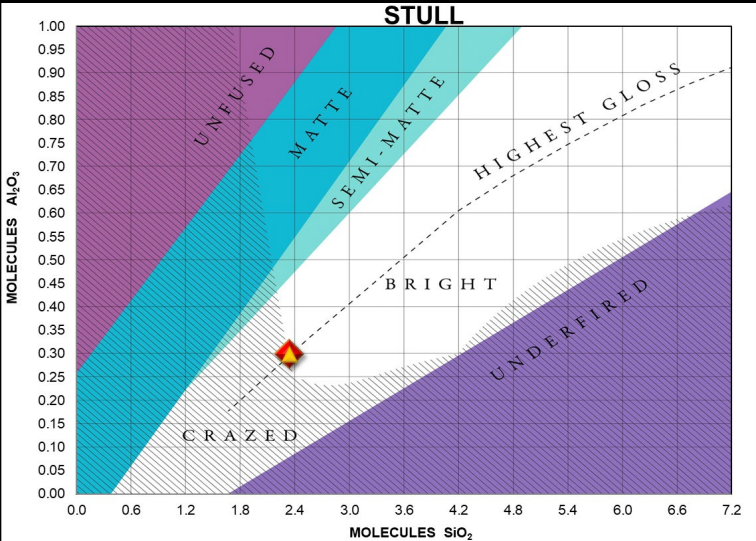


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.80 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 3.85	Collective "Al ₂ O ₃ " 0.49	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.01	CaO 0.66
B ₂ O ₃	Al ₂ O ₃ 0.49	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 7.80 : 1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 2.34	Collective "Al ₂ O ₃ " 0.30	Na ₂ O 0.04	K ₂ O 0.15	MgO 0.00	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.30	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.36
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04

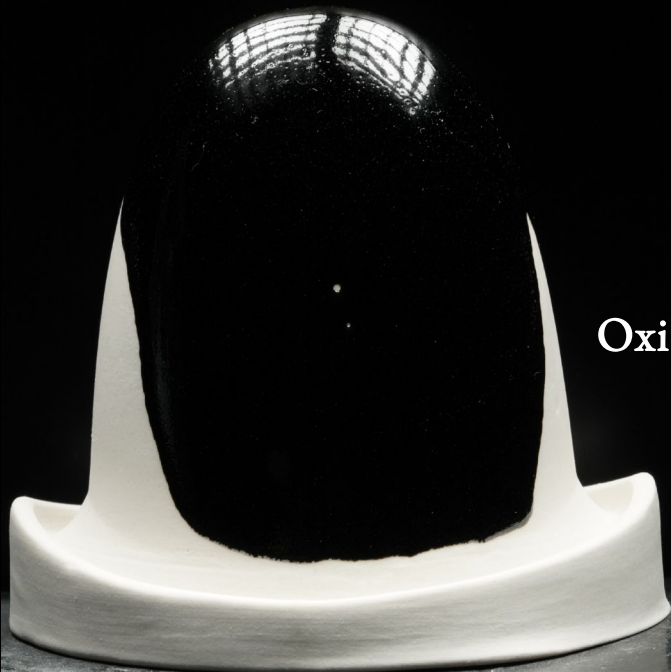


Ceramic
Materials
Workshop

Absence

Mapping
Kaolin 5
062422-31

G200 EU	52.58
Whiting	15.97
EPK	14.57
Flint	16.87
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60

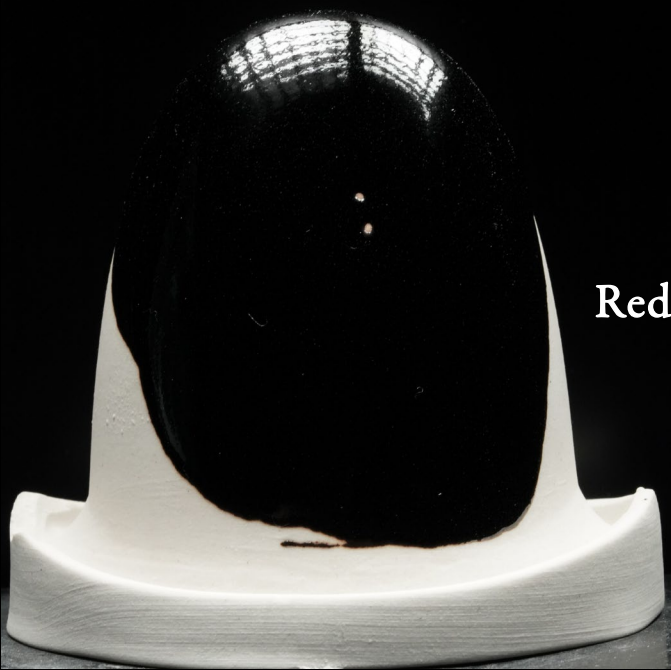


Oxidation

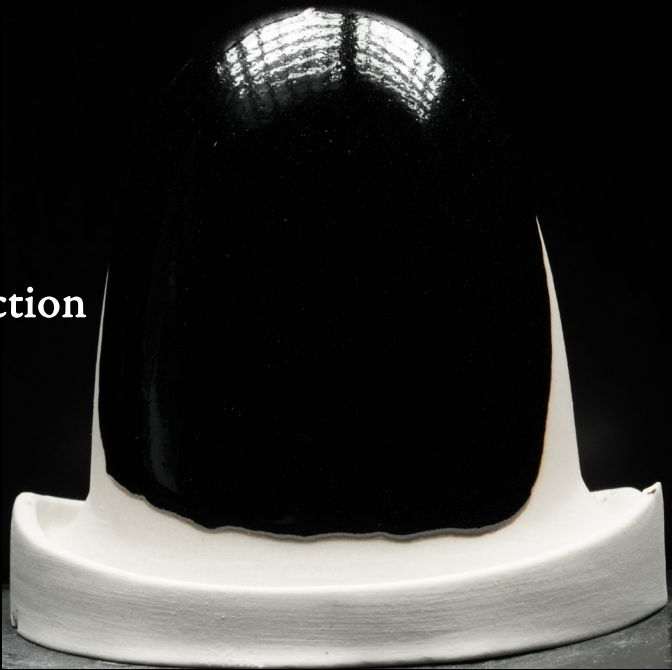


1-3 Second Dip

2-3 Second Dips

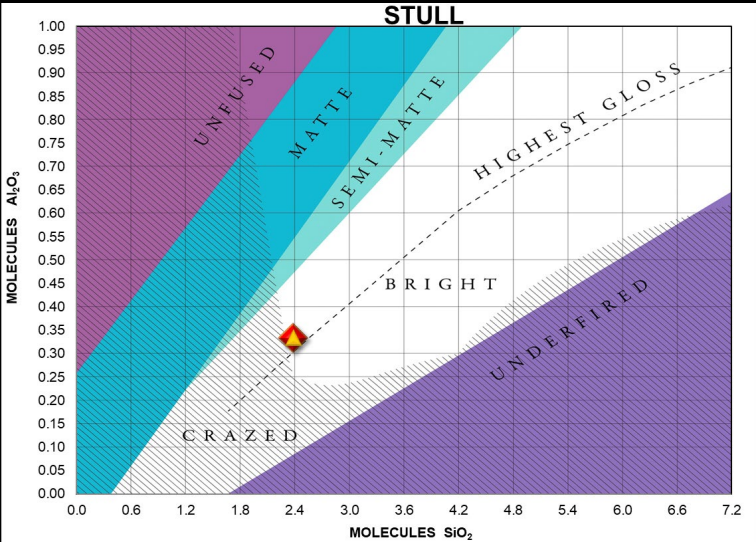


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.13 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 4.00	Collective "Al ₂ O ₃ " 0.56	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.01	CaO 0.66
B ₂ O ₃	Al ₂ O ₃ 0.56	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 7.13 : 1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 2.38	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.04	K ₂ O 0.15	MgO 0.00	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.33	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.37
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04



Ceramic
Materials
Workshop

Absence

Mapping
Kaolin 6
062422-32

G200 EU	50.15
Whiting	15.23
EPK	18.52
Flint	16.09
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60



1-3 Second Dip



2-3 Second Dips

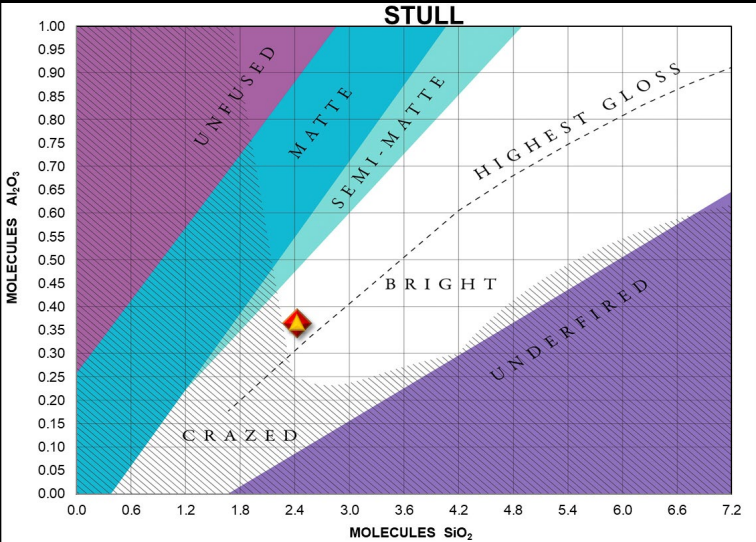


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 6.61 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 4.14	Collective "Al ₂ O ₃ " 0.63	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.01	CaO 0.66
B ₂ O ₃	Al ₂ O ₃ 0.62	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 6.61 : 1		Alkali Metals 0.19		Alkaline Earths 0.81	
SiO ₂ 2.43	Collective "Al ₂ O ₃ " 0.37	Na ₂ O 0.04	K ₂ O 0.15	MgO 0.00	CaO 0.38
B ₂ O ₃	Al ₂ O ₃ 0.36	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.38
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04

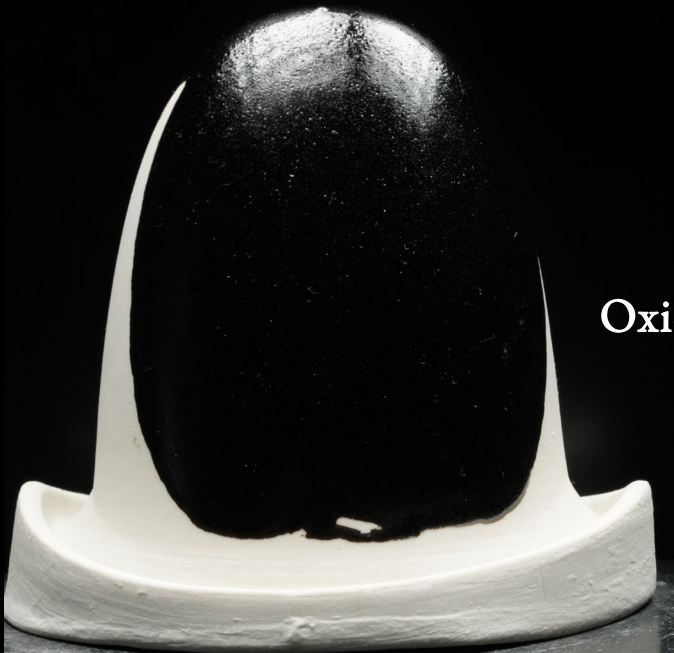


Ceramic
Materials
Workshop

Absence

Mapping
Kaolin 7
062422-33

G200 EU	47.93
Whiting	14.56
EPK	22.13
Flint	15.38
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60



1-3 Second Dip



2-3 Second Dips

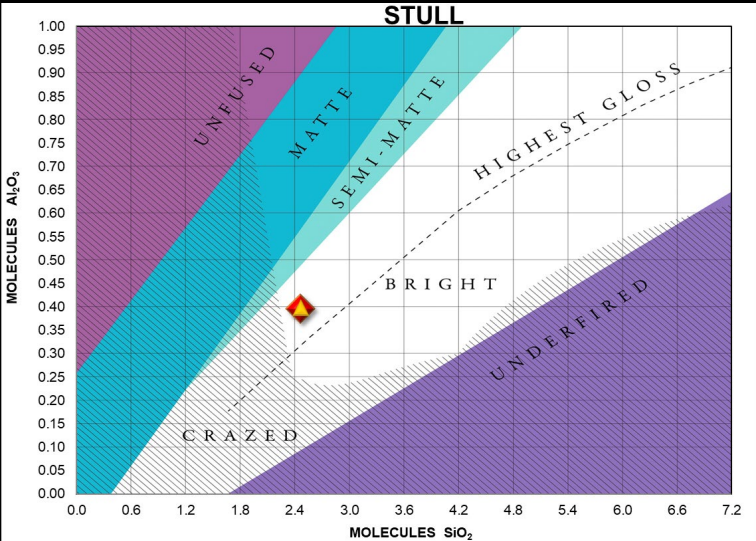


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 6.19 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 4.28	Collective "Al ₂ O ₃ " 0.69	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.01	CaO 0.65
B ₂ O ₃	Al ₂ O ₃ 0.69	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.02
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 6.19 : 1		Alkali Metals 0.18		Alkaline Earths 0.82	
SiO ₂ 2.47	Collective "Al ₂ O ₃ " 0.40	Na ₂ O 0.04	K ₂ O 0.14	MgO 0.00	CaO 0.38
B ₂ O ₃	Al ₂ O ₃ 0.40	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.39
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04



Ceramic
Materials
Workshop

Absence

Mapping
Kaolin 8
062422-34

G200 EU	45.89
Whiting	13.94
EPK	25.43
Flint	14.73
Red Iron Oxide	7.62
Cobalt Carbonate	1.96
Water	60



1-3 Second Dip



2-3 Second Dips



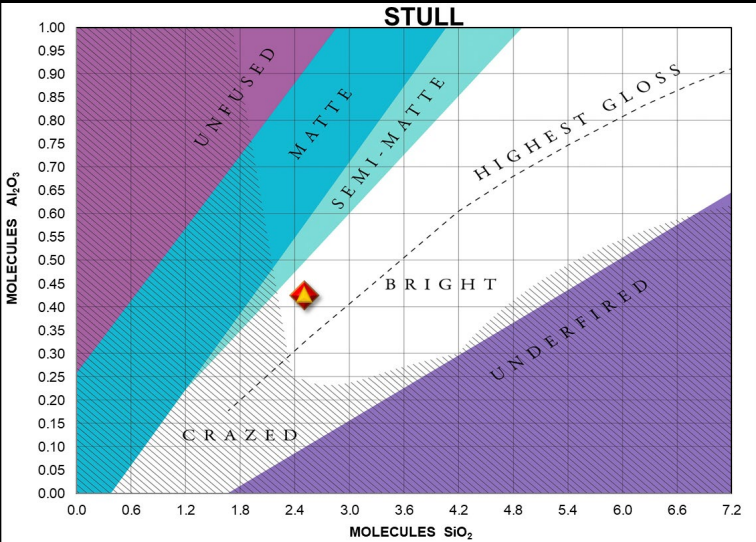
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 5.84 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 4.42	Collective "Al ₂ O ₃ " 0.76	Na ₂ O 0.07	K ₂ O 0.25	MgO 0.01	CaO 0.65
B ₂ O ₃	Al ₂ O ₃ 0.75	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 5.84 : 1		Alkali Metals 0.18		Alkaline Earths 0.82	
SiO ₂ 2.50	Collective "Al ₂ O ₃ " 0.43	Na ₂ O 0.04	K ₂ O 0.14	MgO 0.01	CaO 0.37
B ₂ O ₃	Al ₂ O ₃ 0.43	Li ₂ O	CuO	SrO	BaO
TiO ₂	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.40
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.04



Ceramic
Materials
Workshop