

Absence- Δ 10

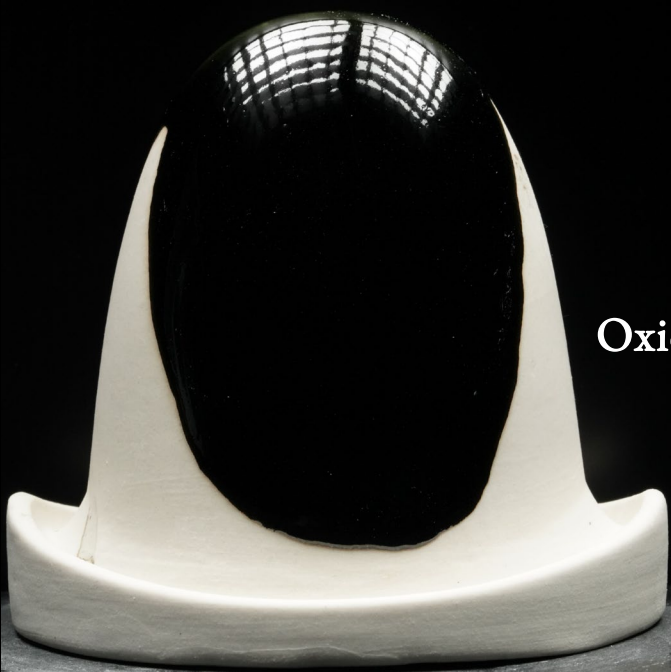
Lab 1-Pick-A-Part

Absence

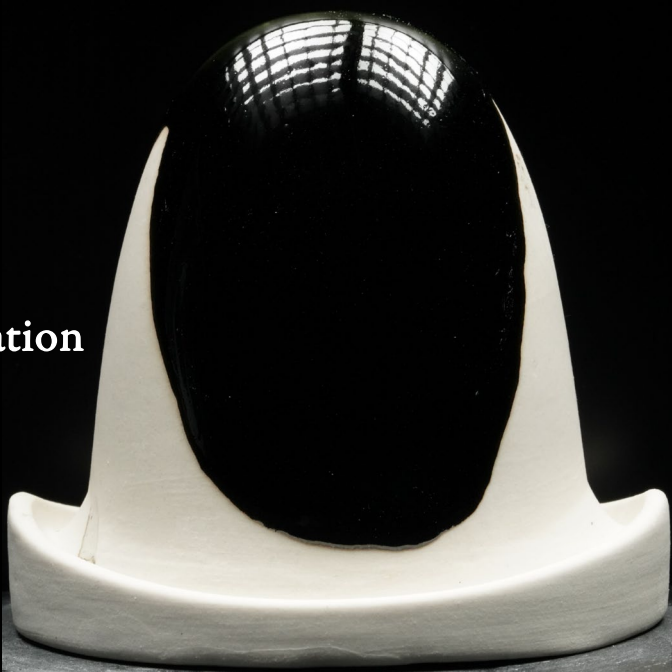
Original

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



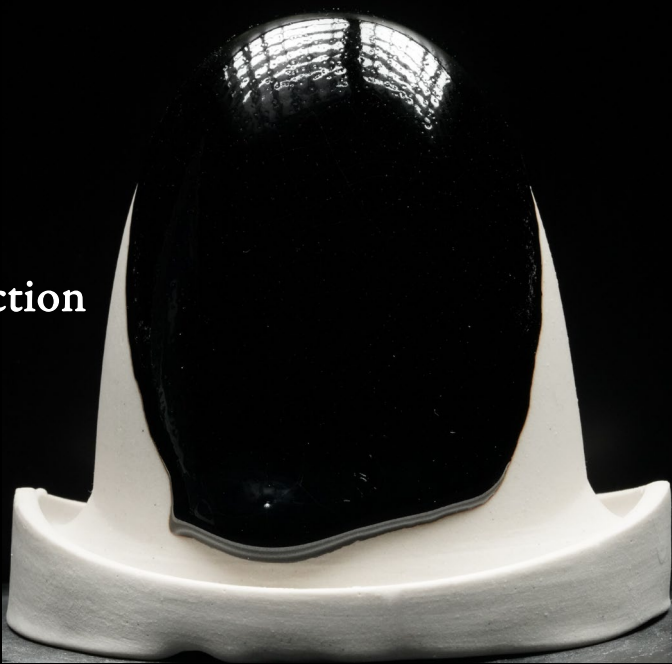
1-3 Second Dip



2-3 Second Dips

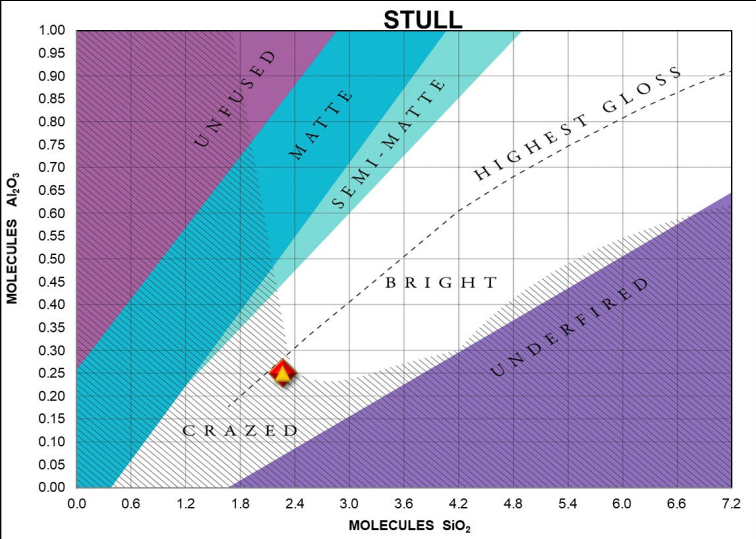


Reduction



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



Ceramic
Materials
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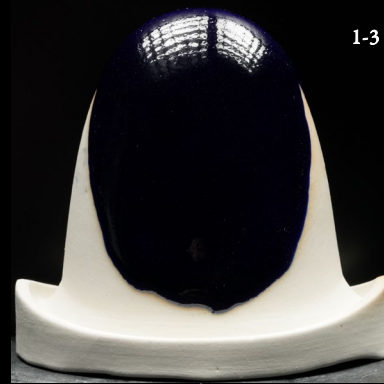
Lab 1-Oxidation



062422-1

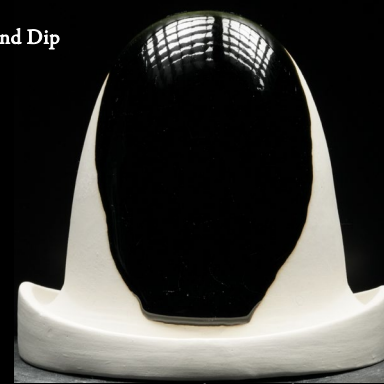


062422-2

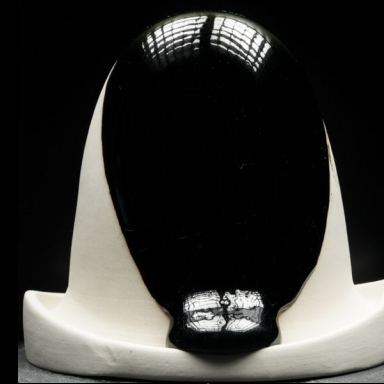


062422-3

1-3 Second Dip



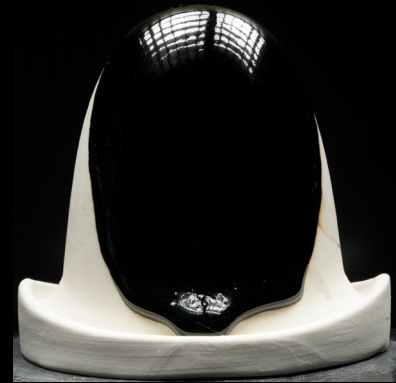
062422-4



062422-5



062422-6



Original

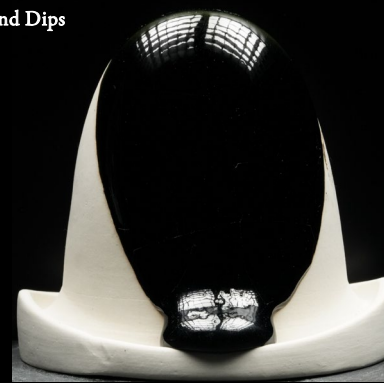


w/o G200 EU



w/o Whiting

2-3 Second Dips



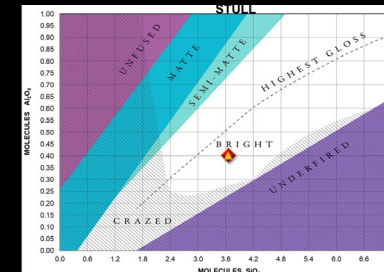
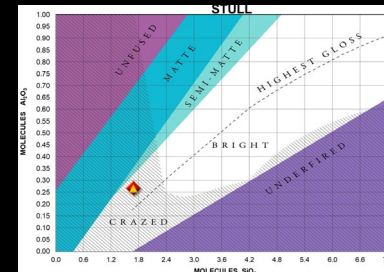
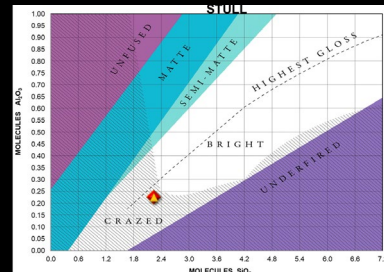
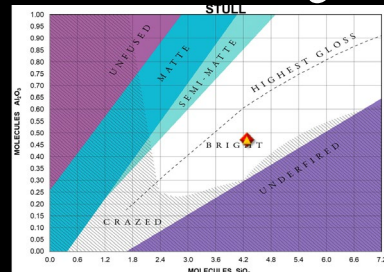
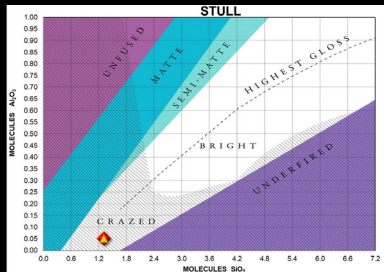
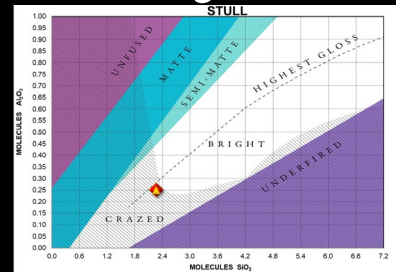
w/o Kaolin



w/o Flint



w/o Colorants



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Lab 1-Reduction



062422-1

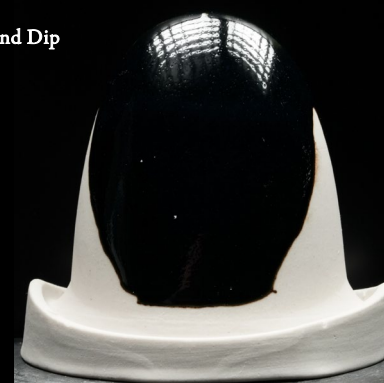


062422-2



062422-3

1-3 Second Dip



062422-4



062422-5



062422-6



Original

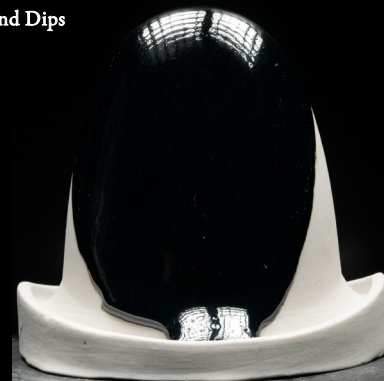


w/o G200 EU



w/o Whiting

2-3 Second Dips



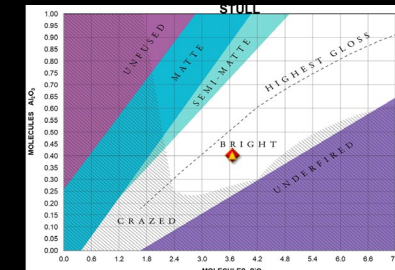
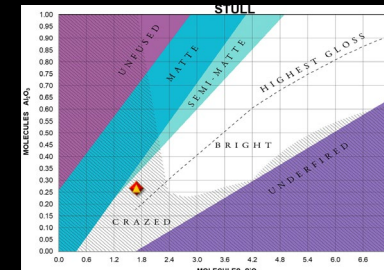
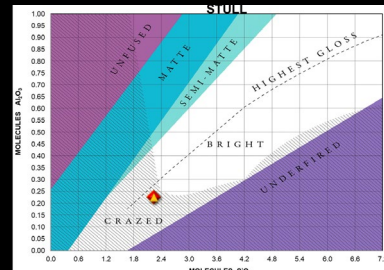
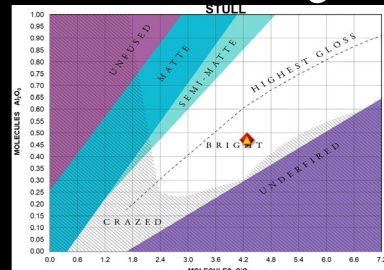
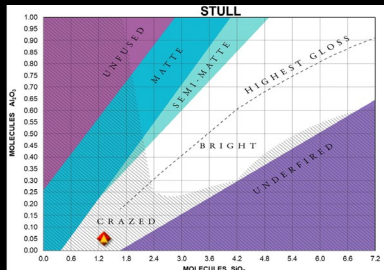
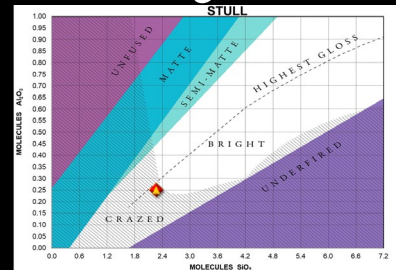
w/o Kaolin



w/o Flint



w/o Colorants



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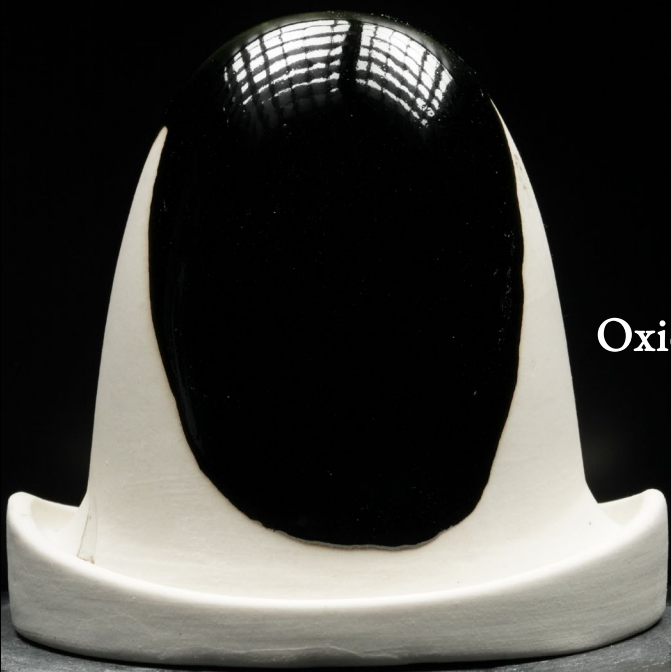
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Absence

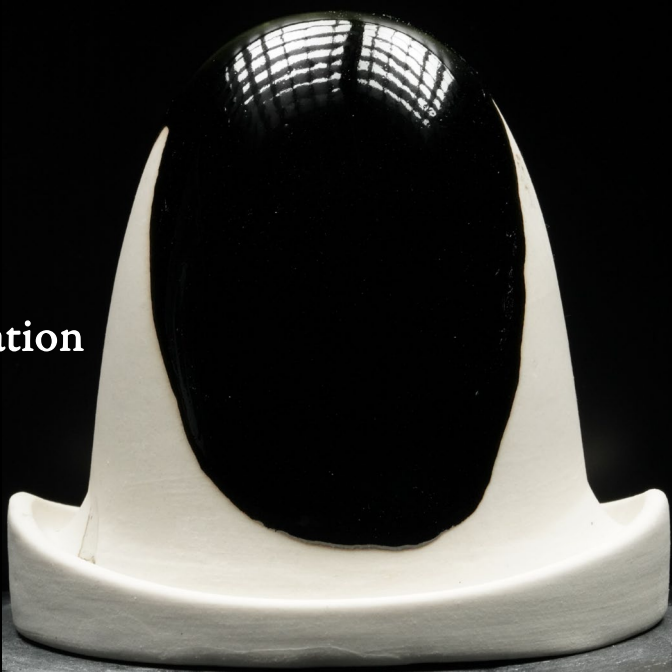
Original

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



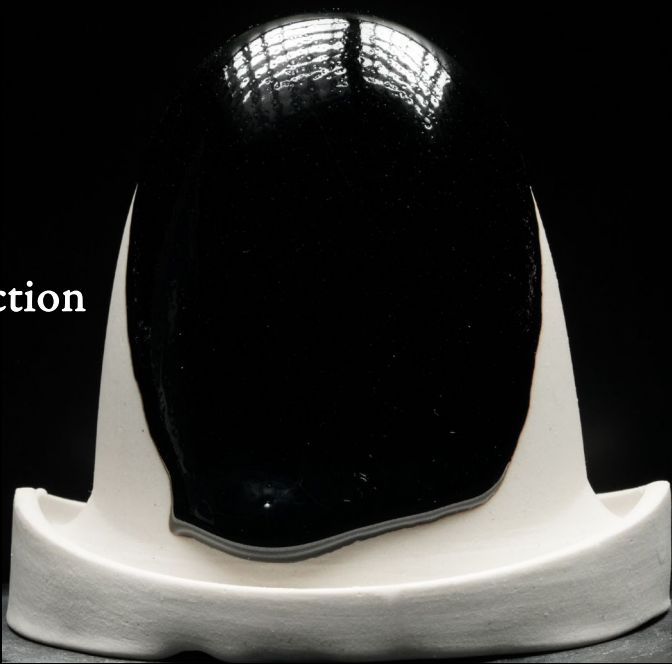
1-3 Second Dip



2-3 Second Dips

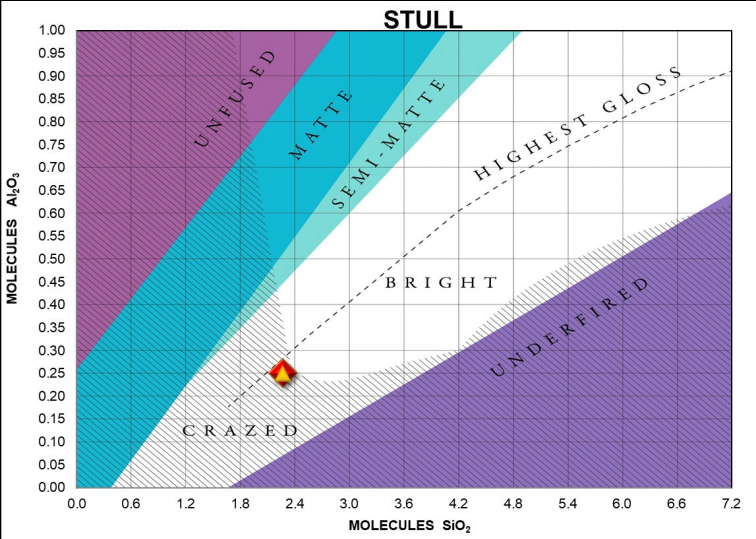


Reduction



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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Absence

w/o Alkali Metal
062422-2

G200 EU	
Whiting	44.39
EPK	8.74
Flint	46.88
Red Iron Oxide	8.66
Cobalt Carbonate	2.23
Water	60



Oxidation

1-3 Second Dip



2-3 Second Dips

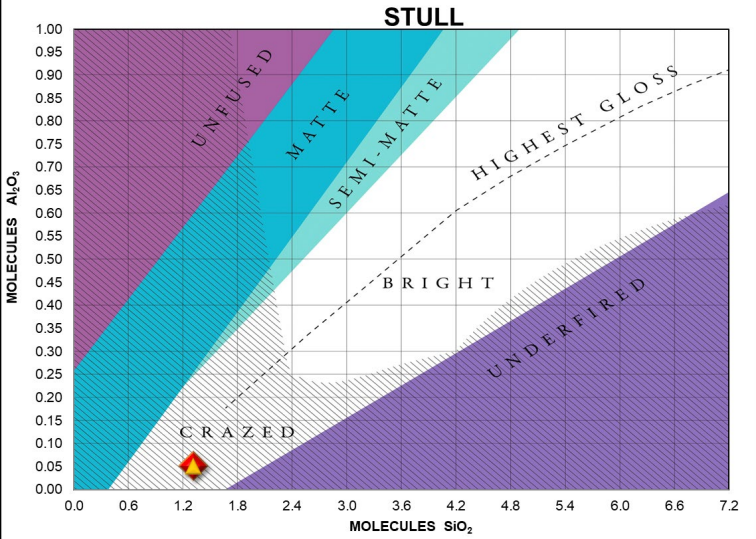


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 25.39 : 1		Alkali Metals 0.00		Alkaline Earths 1.00	
SiO ₂ 1.88	Collective "Al ₂ O ₃ " 0.07	Na ₂ O	K ₂ O 0.00	MgO 0.00	CaO 0.99
B ₂ O ₃	Al ₂ O ₃ 0.07	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 25.39 : 1		Alkali Metals 0.00		Alkaline Earths 1.00	
SiO ₂ 1.32	Collective "Al ₂ O ₃ " 0.05	Na ₂ O	K ₂ O 0.00	MgO 0.00	CaO 0.70
B ₂ O ₃	Al ₂ O ₃ 0.05	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.27
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.03



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Absence

w/o Alkaline Earth

062422-3

G200 EU	72.43
Whiting	
EPK	4.33
Flint	23.24
Red Iron Oxide	7.69
Cobalt Carbonate	1.98
Water	60



1-3 Second Dip



2-3 Second Dips



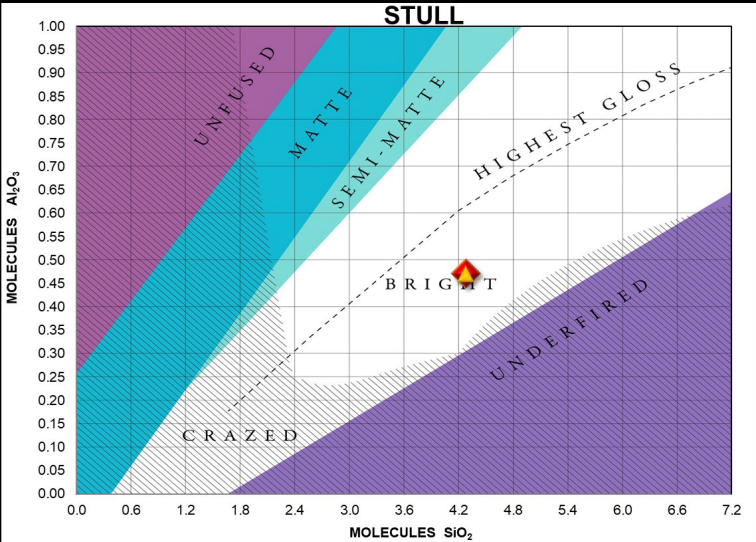
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 9.07 : 1		Alkali Metals 0.91		Alkaline Earths 0.09	
SiO ₂ 10.34	Collective "Al ₂ O ₃ " 1.14	Na ₂ O 0.20	K ₂ O 0.71	MgO 0.01	CaO 0.05
B ₂ O ₃	Al ₂ O ₃ 1.14	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 9.07 : 1		Alkali Metals 0.38		Alkaline Earths 0.62	
SiO ₂ 4.28	Collective "Al ₂ O ₃ " 0.47	Na ₂ O 0.08	K ₂ O 0.29	MgO 0.01	CaO 0.02
B ₂ O ₃	Al ₂ O ₃ 0.47	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.54
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.06



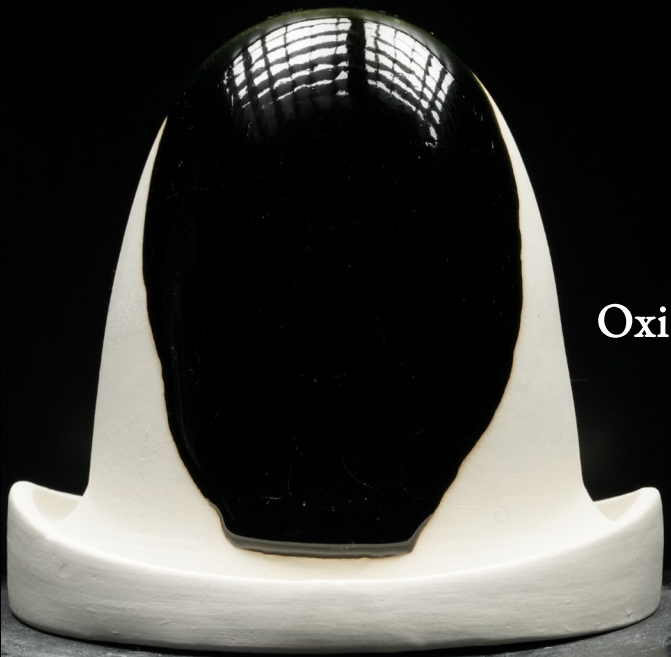
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Absence

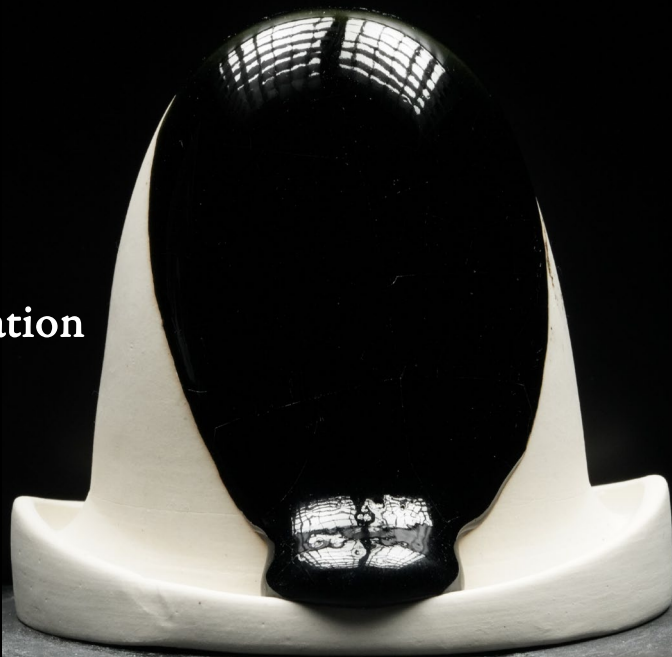
w/o Kaolin

062422-4

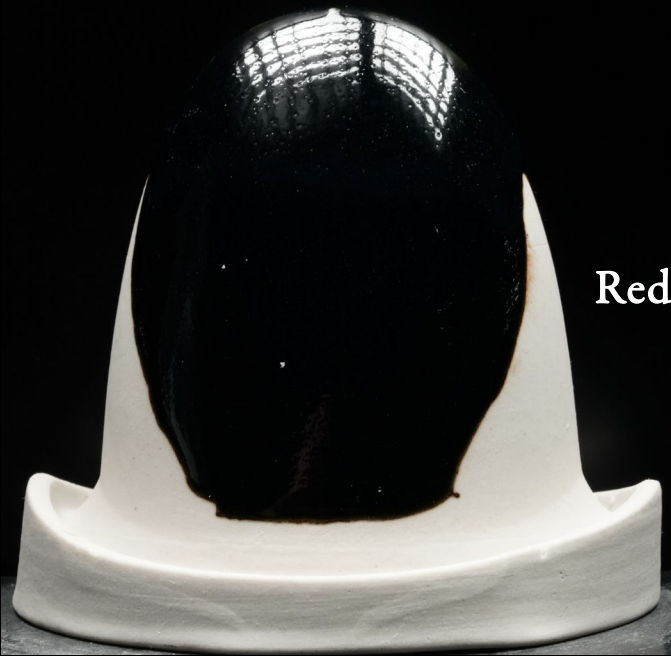
G200 EU	61.55
Whiting	18.70
EPK	
Flint	19.75
Red Iron Oxide	7.70
Cobalt Carbonate	1.98
Water	60



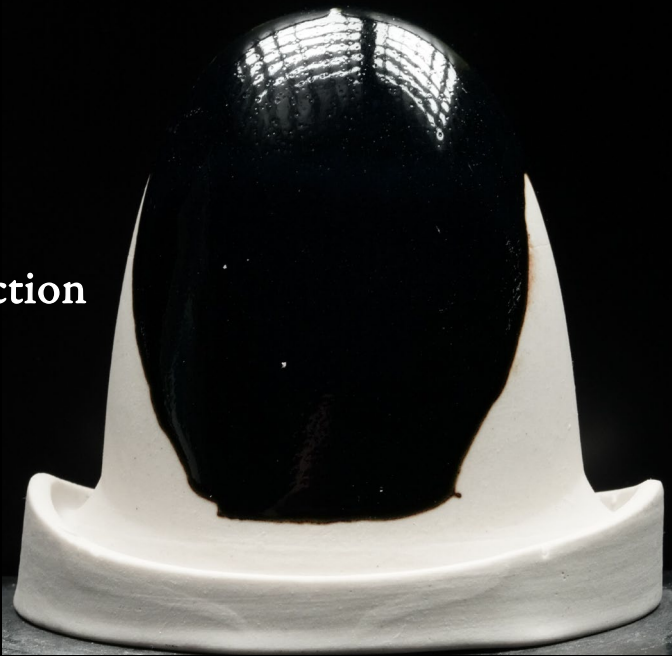
1-3 Second Dip



2-3 Second Dips



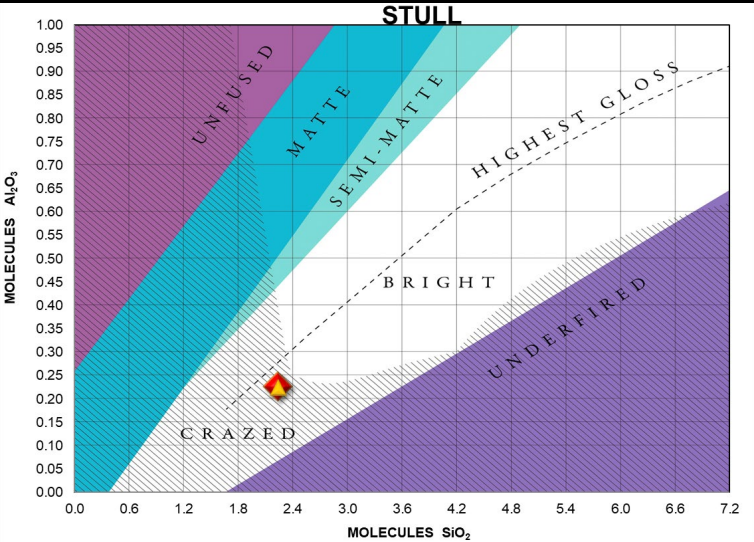
Reduction



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



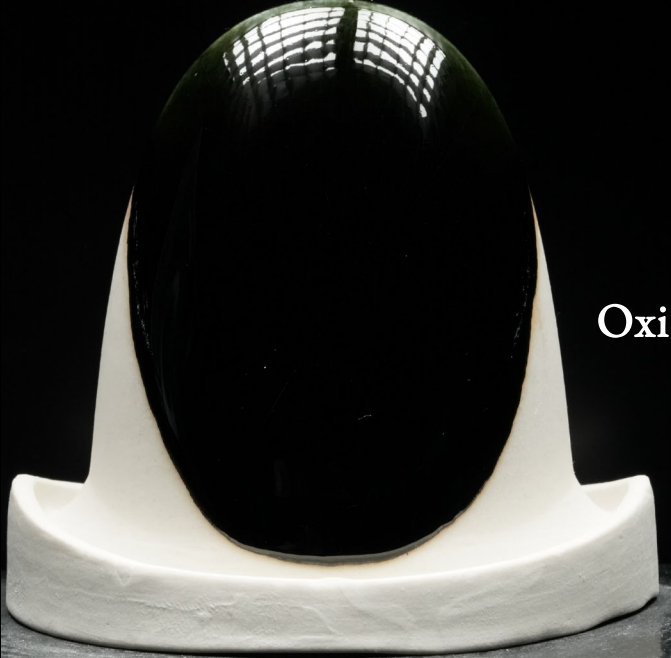
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Absence

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



2-3 Second Dips

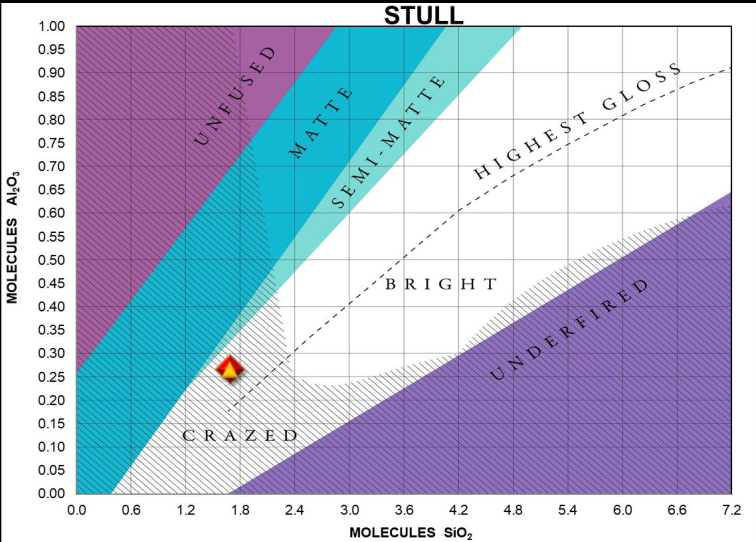


Reduction



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
Materials
Workshop

Absence

w/o Colorants

062422-6

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



1-3 Second Dip



2-3 Second Dips

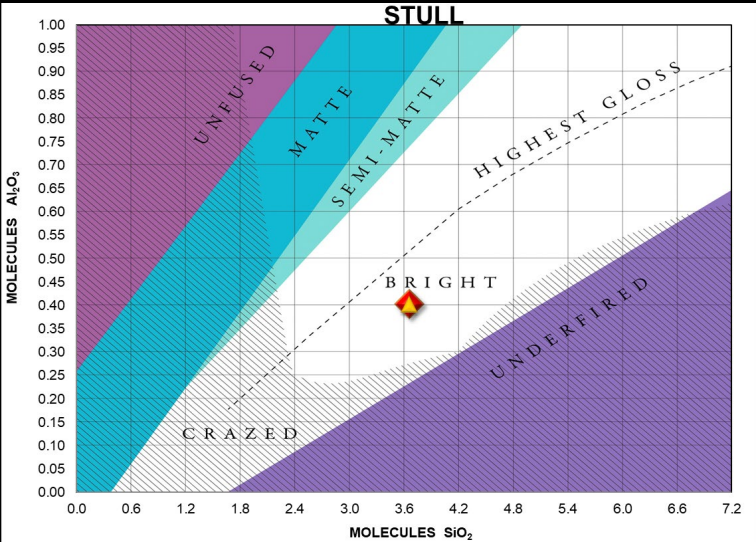


Oxidation

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 0.32		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



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