

Purple Rain- Δ 10

Lab 1-Pick-A-Part



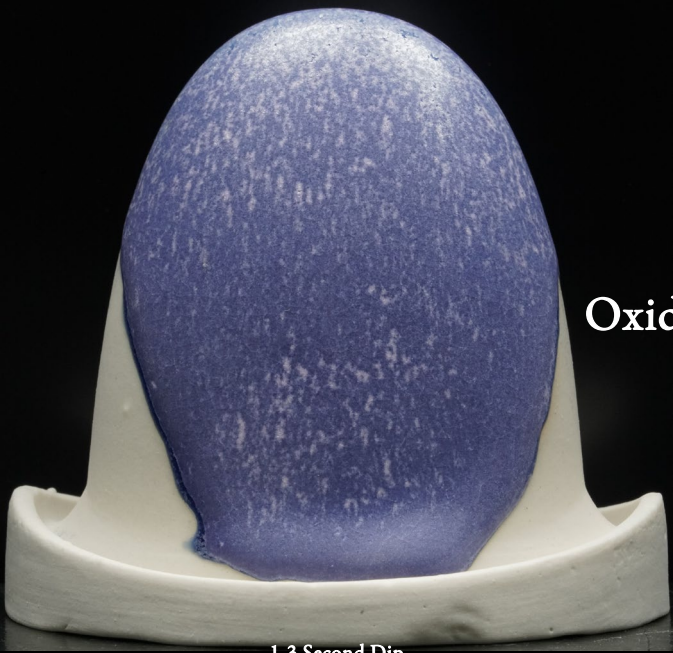
Ceramic
Materials
Workshop

ceramicmaterialsworkshop.com

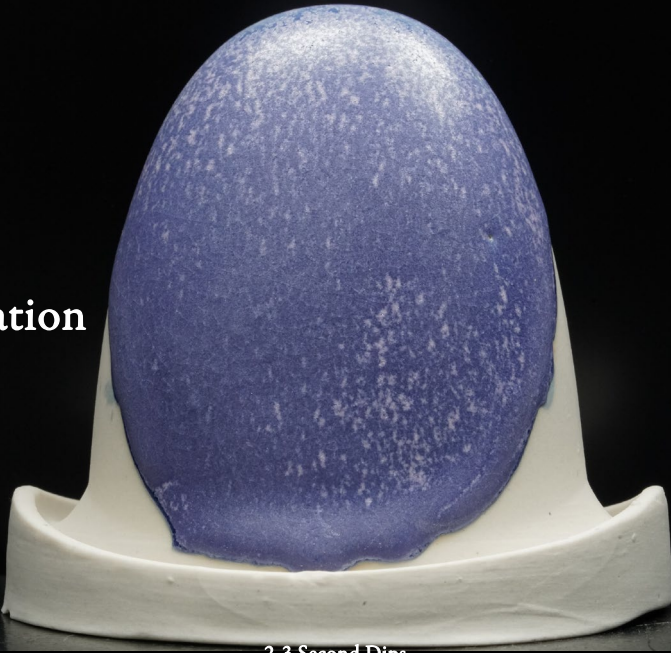
Purple Rain

Original
062722-1

Neph Sy	40.93
Dolomite	30.27
EPK	5.04
Flint	23.76
Cobalt Carbonate	1
Water	60



1-3 Second Dip



2-3 Second Dips

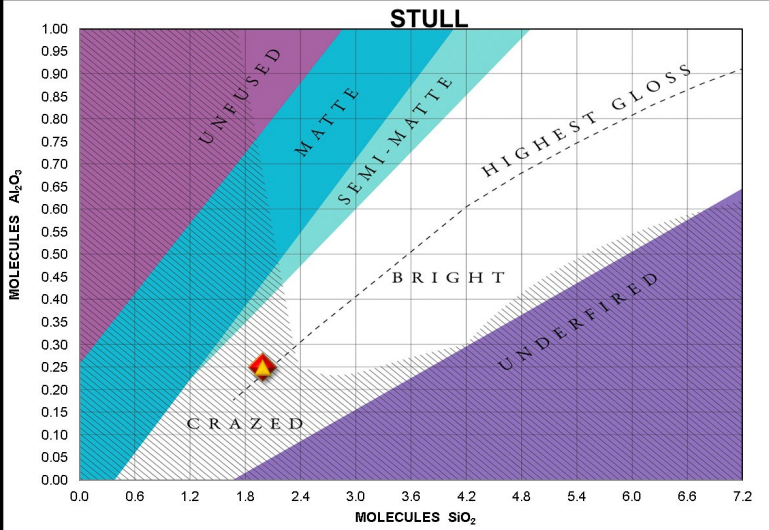


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.93 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.03	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO	SrO	BaO
TiO ₂	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 7.93 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.99	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.25	Li ₂ O	CuO	SrO	BaO
TiO ₂	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



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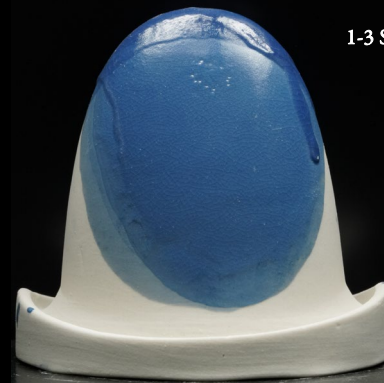
Lab 1-Oxidation



062722-1



062722-2



062722-3



062722-4



062722-5



062722-6

1-3 Second Dip



Original



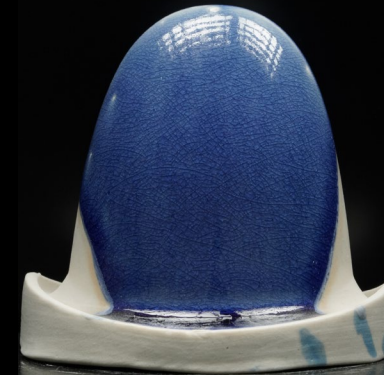
w/o Neph Sy



w/o Dolomite



w/o Kaolin

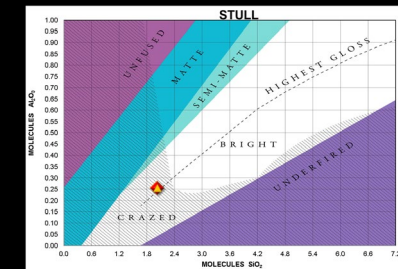
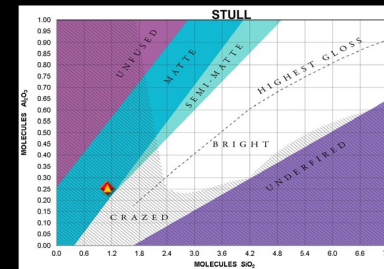
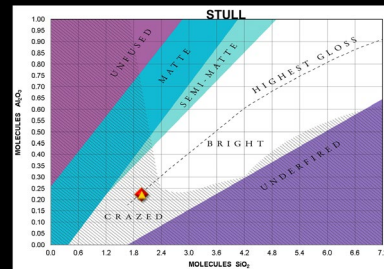
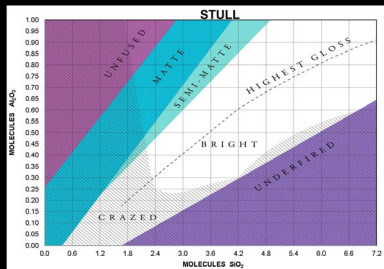
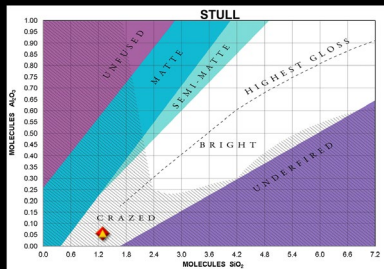
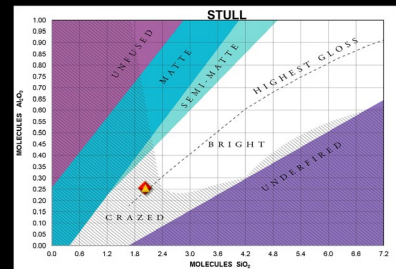


w/o Flint



w/o Colorants

2-3 Second Dips



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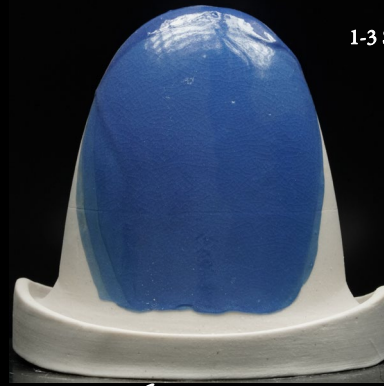
Lab 1-Reduction



062722-1



062722-2



062722-3



062722-4



062722-5



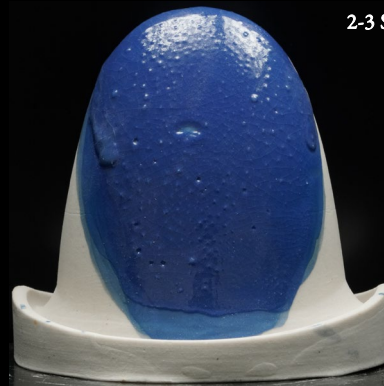
062722-6



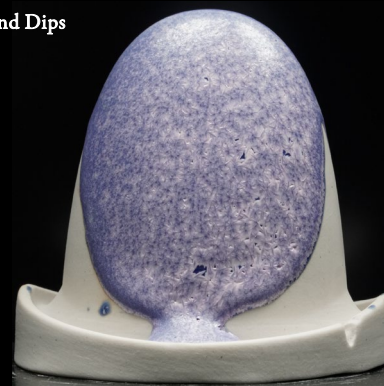
Original



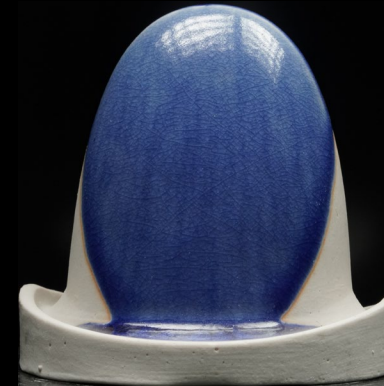
w/o Neph Sy



w/o Dolomite



w/o Kaolin



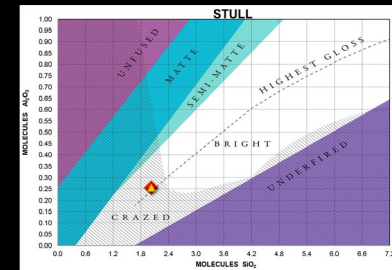
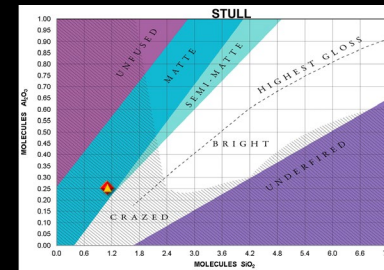
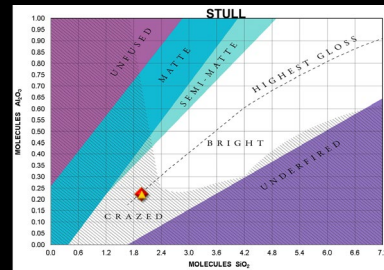
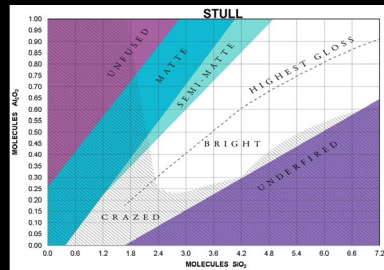
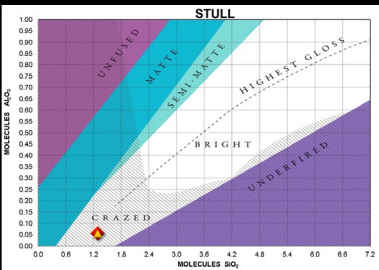
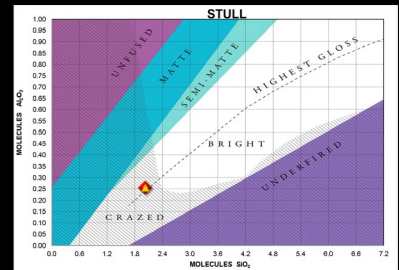
w/o Flint



w/o Colorants

1-3 Second Dip

2-3 Second Dips



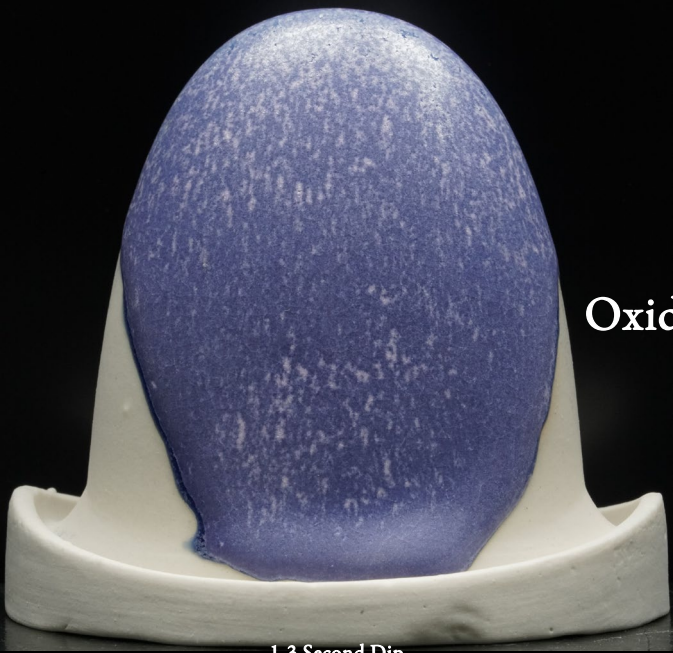
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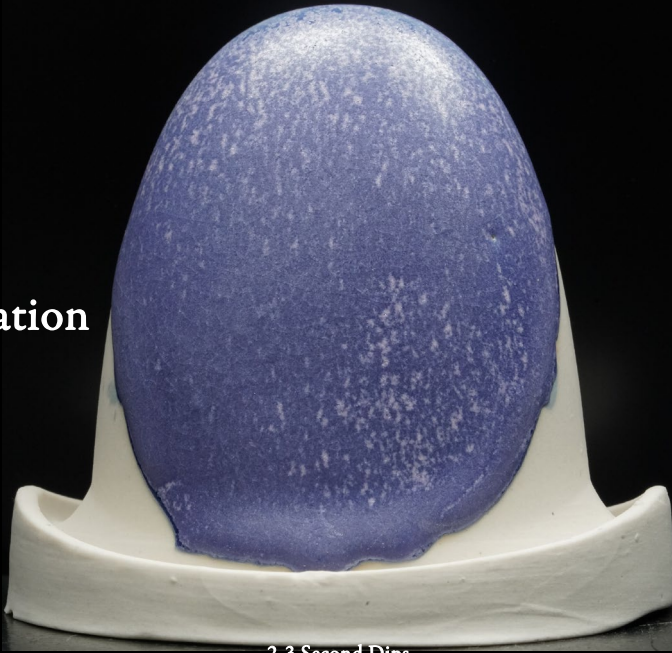
Purple Rain

Original
062722-1

Neph Sy	40.93
Dolomite	30.27
EPK	5.04
Flint	23.76
Cobalt Carbonate	1
Water	60



1-3 Second Dip



2-3 Second Dips

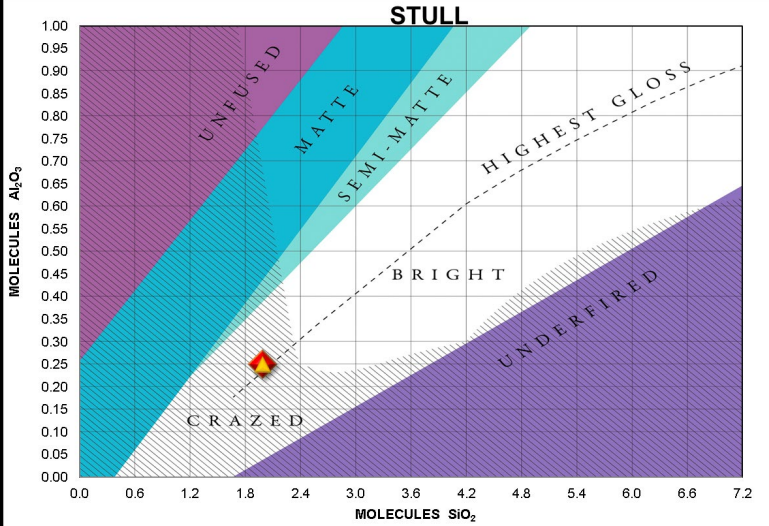


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.93 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.03	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.26	Li ₂ O	CuO	SrO	BaO
TiO ₂	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 7.93 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.99	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.38	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.25	Li ₂ O	CuO	SrO	BaO
TiO ₂	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02

Purple Rain

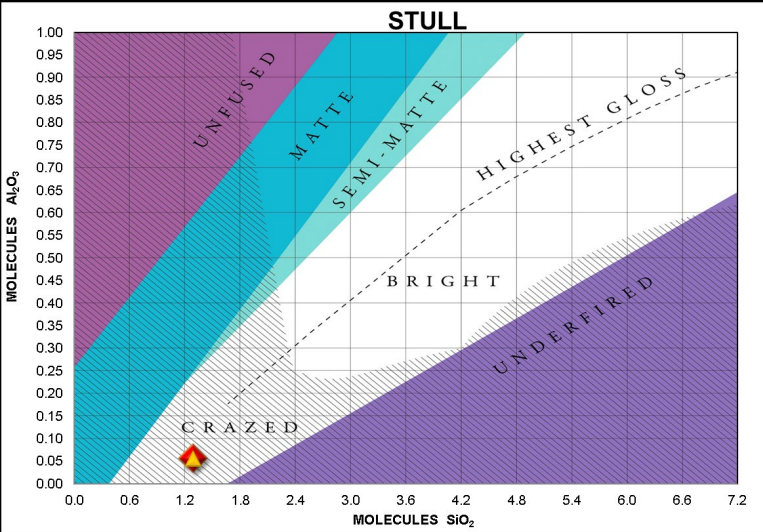
w/o Alkali Metal
062722-2

Neph Sy	
Dolomite	51.24
EPK	8.54
Flint	40.22
Cobalt Carbonate	1.00
Water	60



UMF

SiO ₂ :Al ₂ O ₃ Ratio 22.79 :1		Alkali Metals 0.00		Alkaline Earths 1.00	
SiO ₂ 1.31	Collective "Al ₂ O ₃ " 0.06	Na ₂ O	K ₂ O 0.00	MgO 0.50	CaO 0.50
B ₂ O ₃	Al ₂ O ₃ 0.06	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 22.79 :1		Alkali Metals 0.00		Alkaline Earths 1.00	
SiO ₂ 1.29	Collective "Al ₂ O ₃ " 0.06	Na ₂ O	K ₂ O 0.00	MgO 0.49	CaO 0.49
B ₂ O ₃	Al ₂ O ₃ 0.06	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 0.01



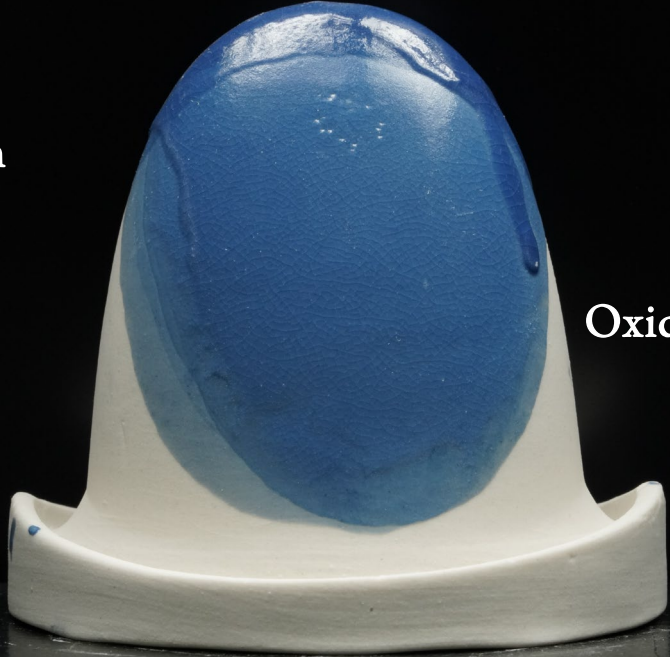
Ceramic
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Workshop

Purple Rain

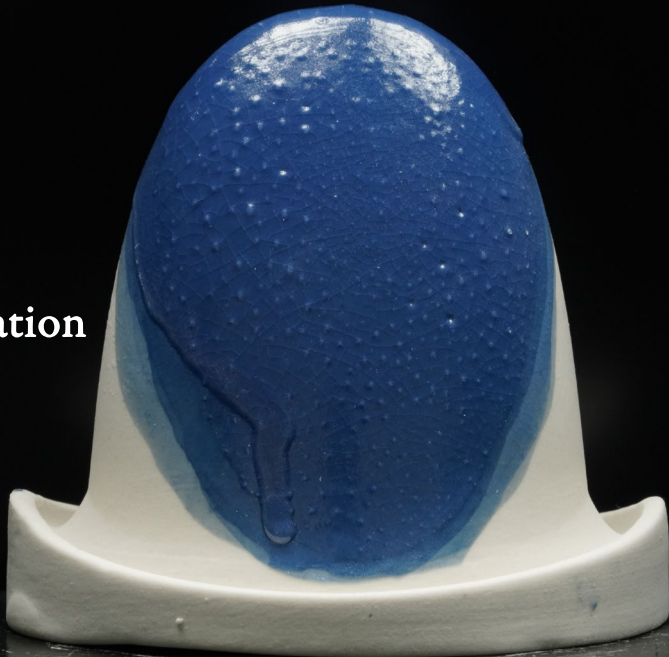
w/o Alkaline Earth

062722-3

Neph Sy	58.69
Dolomite	
EPK	7.23
Flint	34.07
Cobalt Carbonate	1
Water	60



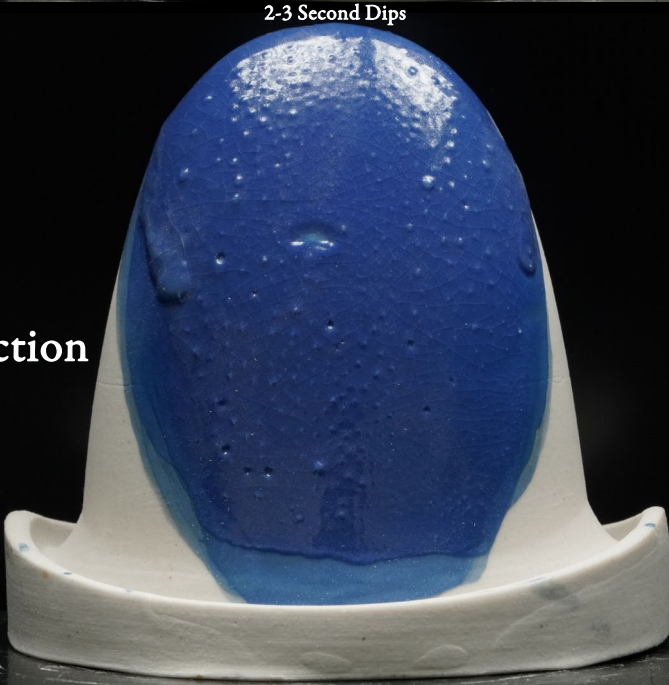
Oxidation



2-3 Second Dips

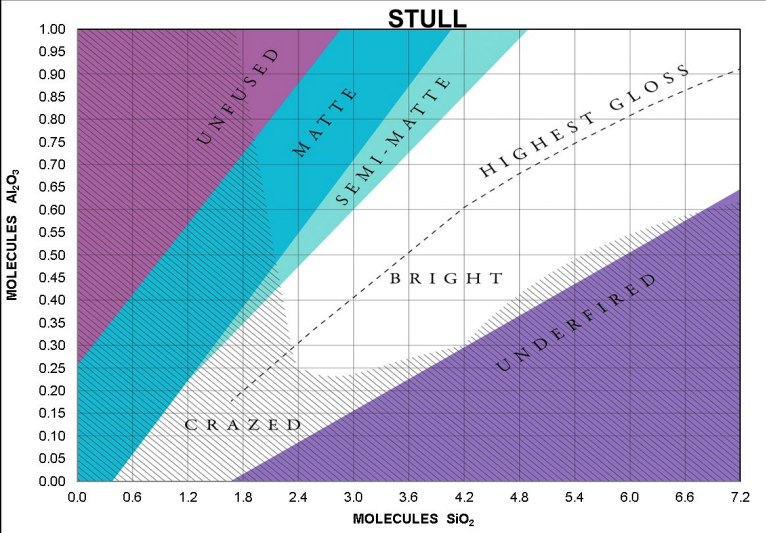


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.93 : 1		Alkali Metals 0.95		Alkaline Earths 0.05	
SiO ₂ 9.28	Collective "Al ₂ O ₃ " 1.17	Na ₂ O 0.74	K ₂ O 0.21	MgO 0.01	CaO 0.03
B ₂ O ₃	Al ₂ O ₃ 1.17	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 7.93 : 1		Alkali Metals 0.89		Alkaline Earths 0.11	
SiO ₂ 8.72	Collective "Al ₂ O ₃ " 1.10	Na ₂ O 0.69	K ₂ O 0.20	MgO 0.01	CaO 0.03
B ₂ O ₃	Al ₂ O ₃ 1.10	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 0.06

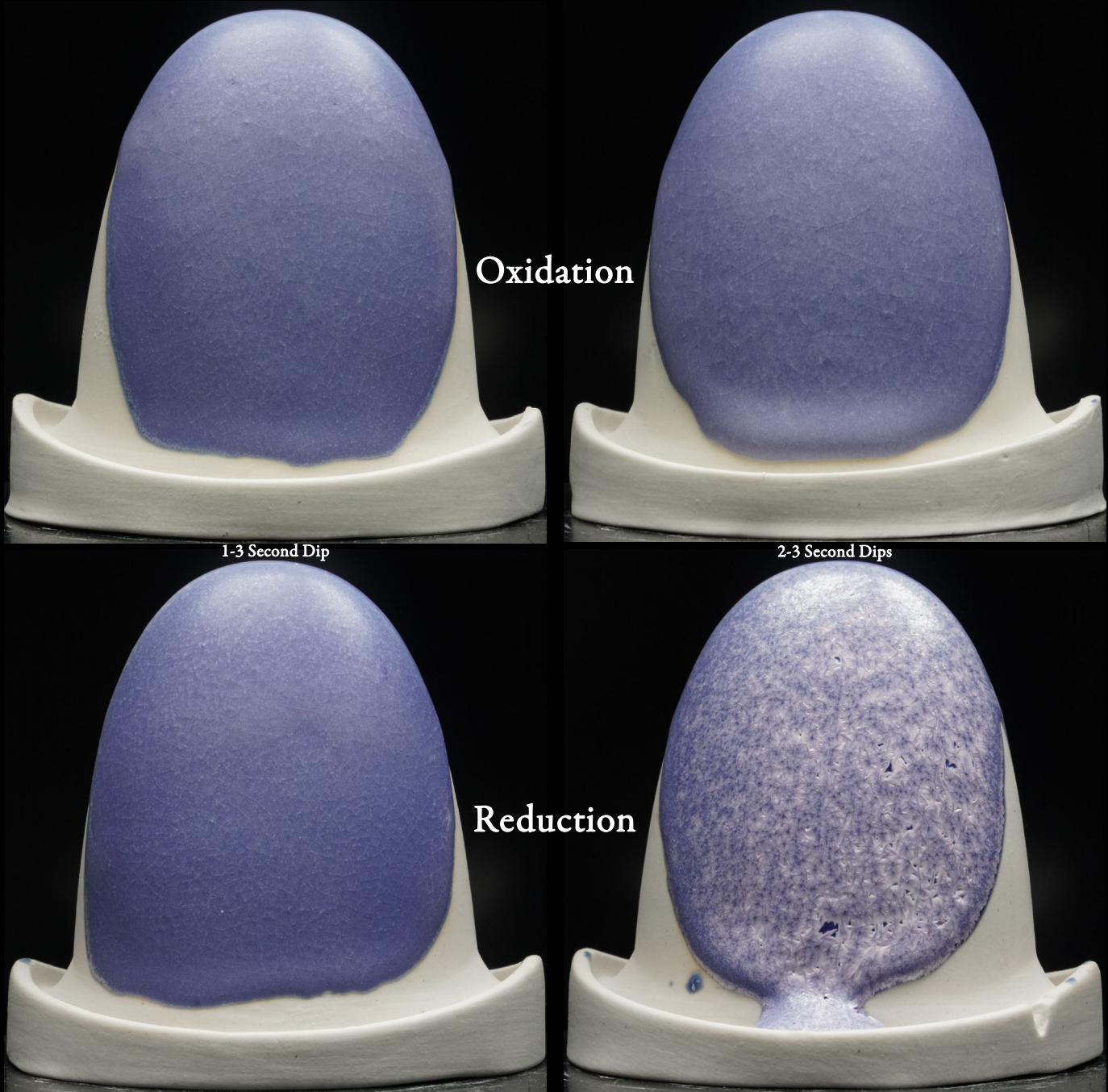


Ceramic
Materials
Workshop

Purple Rain

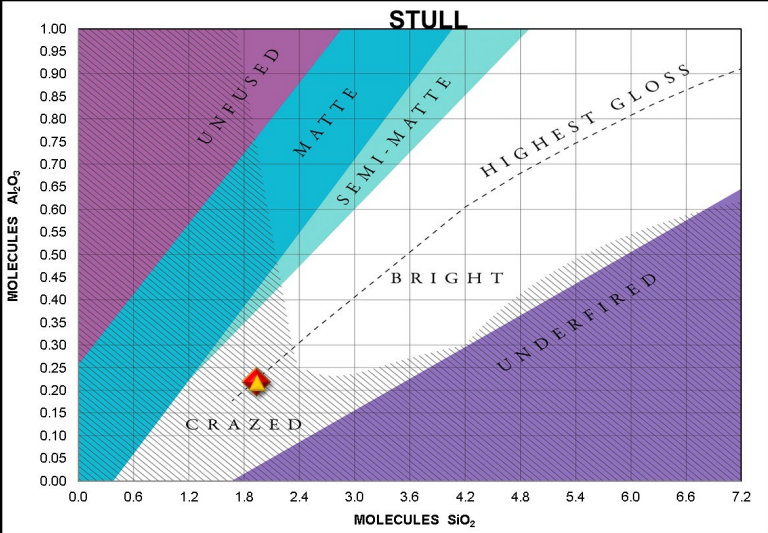
w/o Kaolin
062722-4

Neph Sy	43.10
Dolomite	31.87
EPK	
Flint	25.02
Bentonite	2.00
Cobalt Carbonate	1.02
Water	60



UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.88 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.98	Collective "Al ₂ O ₃ " 0.22	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
B ₂ O ₃	Al ₂ O ₃ 0.22	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 8.88 : 1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.94	Collective "Al ₂ O ₃ " 0.22	Na ₂ O 0.16	K ₂ O 0.04	MgO 0.39	CaO 0.39
B ₂ O ₃	Al ₂ O ₃ 0.22	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 0.02

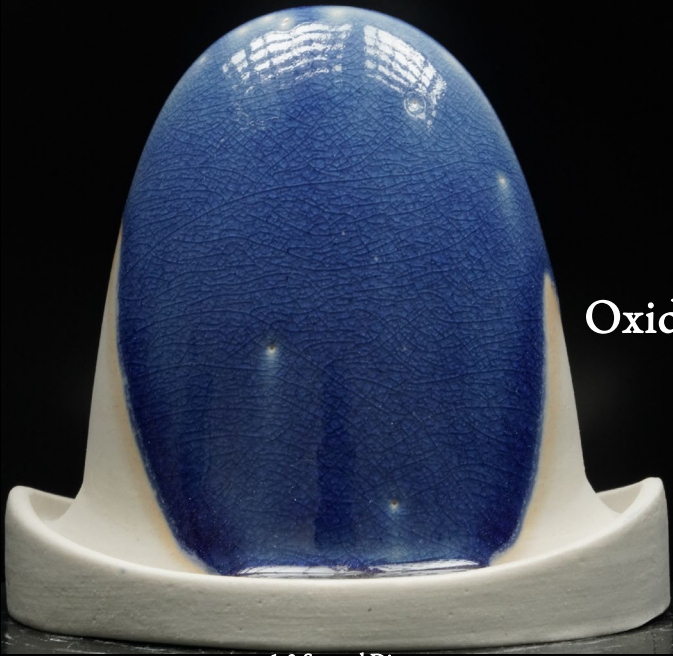


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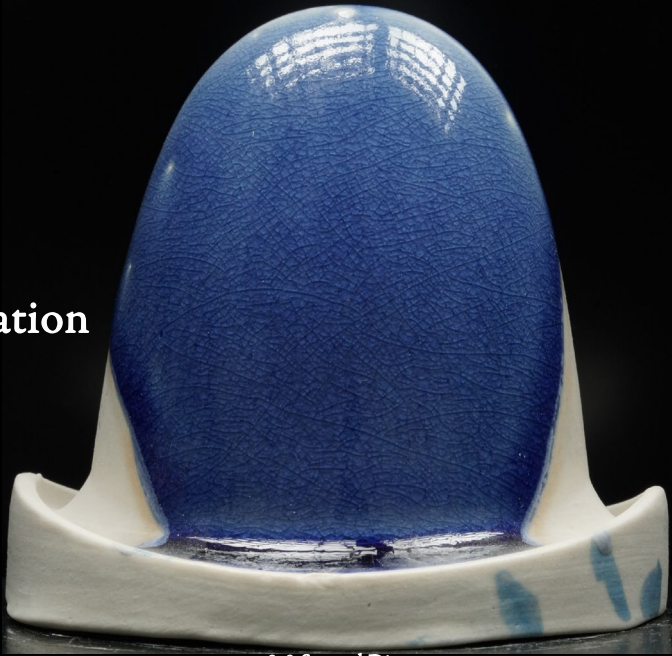
Purple Rain

w/o Silica
062722-5

Neph Sy	53.68
Dolomite	39.70
EPK	6.62
Flint	
Cobalt Carbonate	1
Water	60



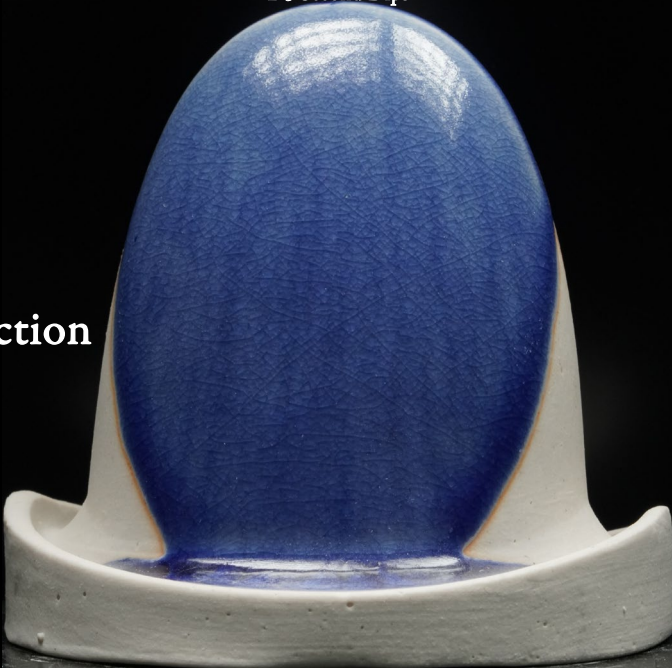
Oxidation



2-3 Second Dips

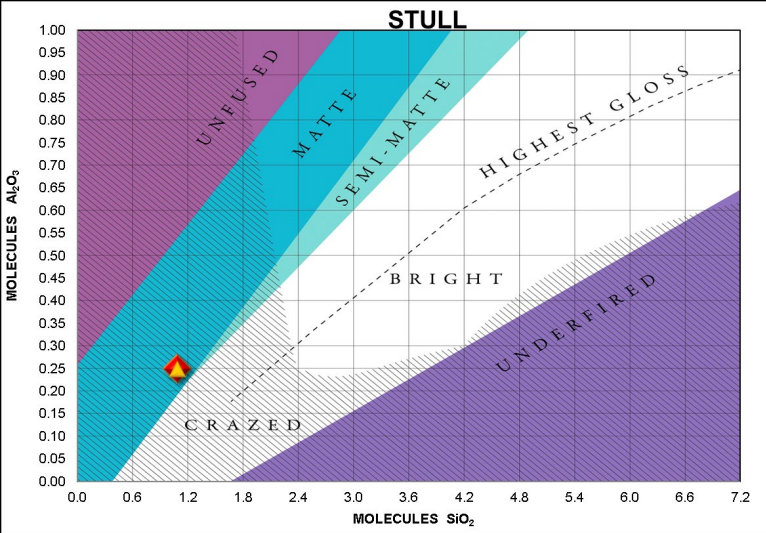


Reduction



UMF

SiO ₂ :Al ₂ O ₃ Ratio 4.35 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.10	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	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 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 4.35 :1		Alkali Metals 0.20		Alkaline Earths 0.80	
SiO ₂ 1.09	Collective "Al ₂ O ₃ " 0.25	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.39
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 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



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Purple Rain

w/o Colorants
062722-6

Neph Sy	40.93
Dolomite	30.27
EPK	5.04
Flint	23.76
Cobalt Carbonate	
Water	60



1-3 Second Dip



2-3 Second Dips

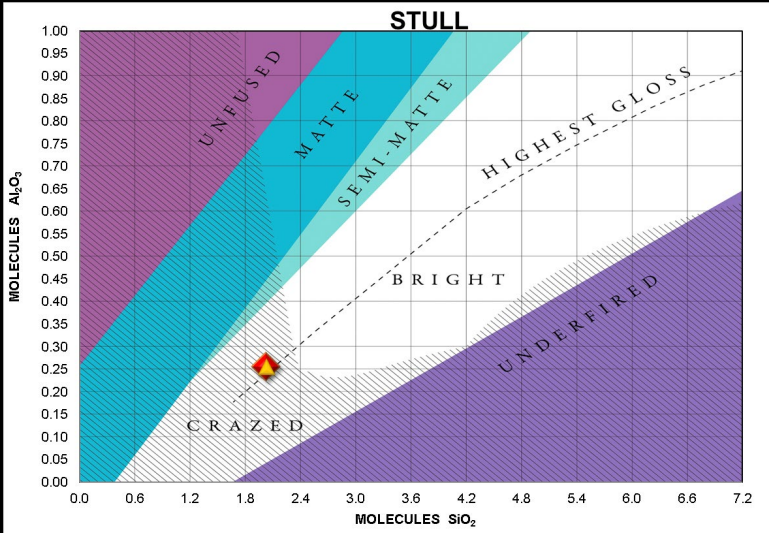


Reduction

Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 7.93 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.03	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
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 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 7.93 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 2.03	Collective "Al ₂ O ₃ " 0.26	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.39	CaO 0.40
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 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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