

Freckles- Δ 6

Lab 5b-Color Wheel 2

Freckles

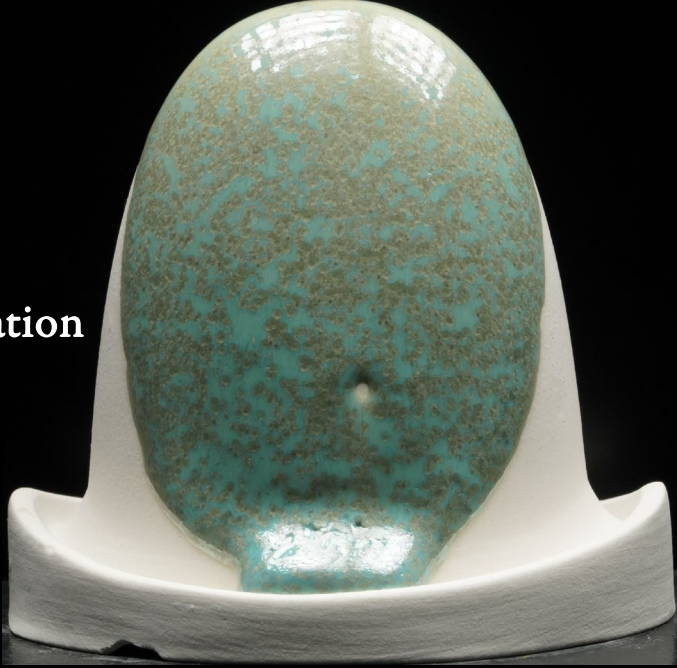
Original

071022-1

Neph Sy	38.96
Whiting	8.99
Zinc Oxide	16.98
EPK	4.99
Flint	27.97
Bentonite	2.11
Copper Carbonate	1.48
Light Rutile	4.00
Water	60



1-3 Second Dip



2-3 Second Dips



1-3 Second Dip



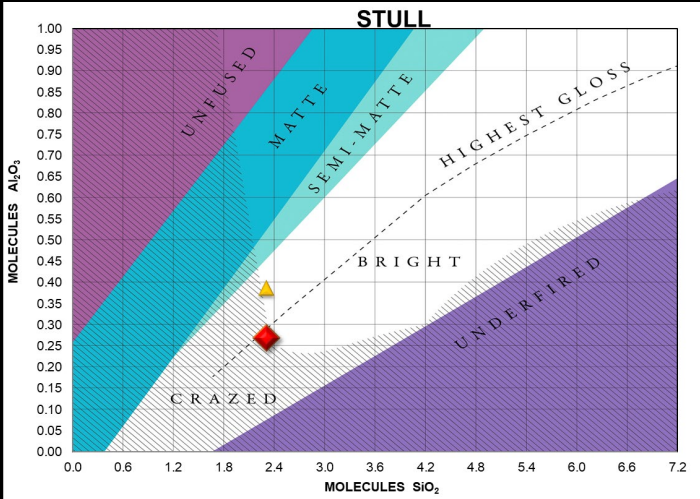
2-3 Second Dips

Oxidation

Reduction

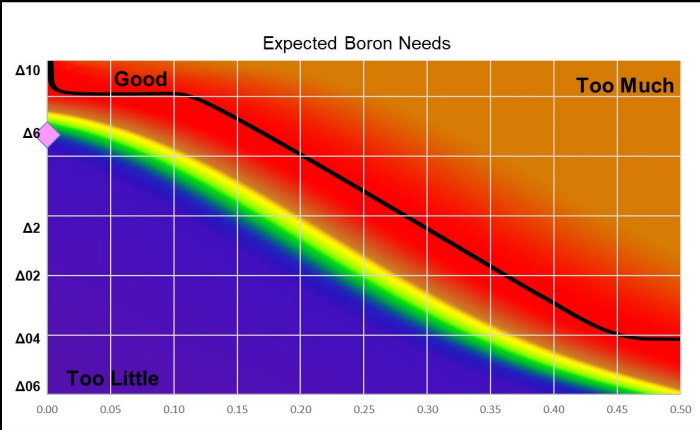
UMF

SiO ₂ :Al ₂ O ₃ Ratio 8.58 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 2.38	Collective "Al ₂ O ₃ " 0.28	Na ₂ O 0.17	K ₂ O 0.05	MgO 0.00	CaO 0.24
B ₂ O ₃	Al ₂ O ₃ 0.28	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.54	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



EUMF

SiO ₂ :Al ₂ O ₃ Ratio 5.95 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 2.31	Collective "Al ₂ O ₃ " 0.39	Na ₂ O 0.16	K ₂ O 0.05	MgO 0.00	CaO 0.23
B ₂ O ₃	Al ₂ O ₃ 0.27	Li ₂ O	CuO 0.03	SrO	BaO
TiO ₂ 0.12	NiO	Bi ₂ O ₃	SnO ₂	ZnO 0.52	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



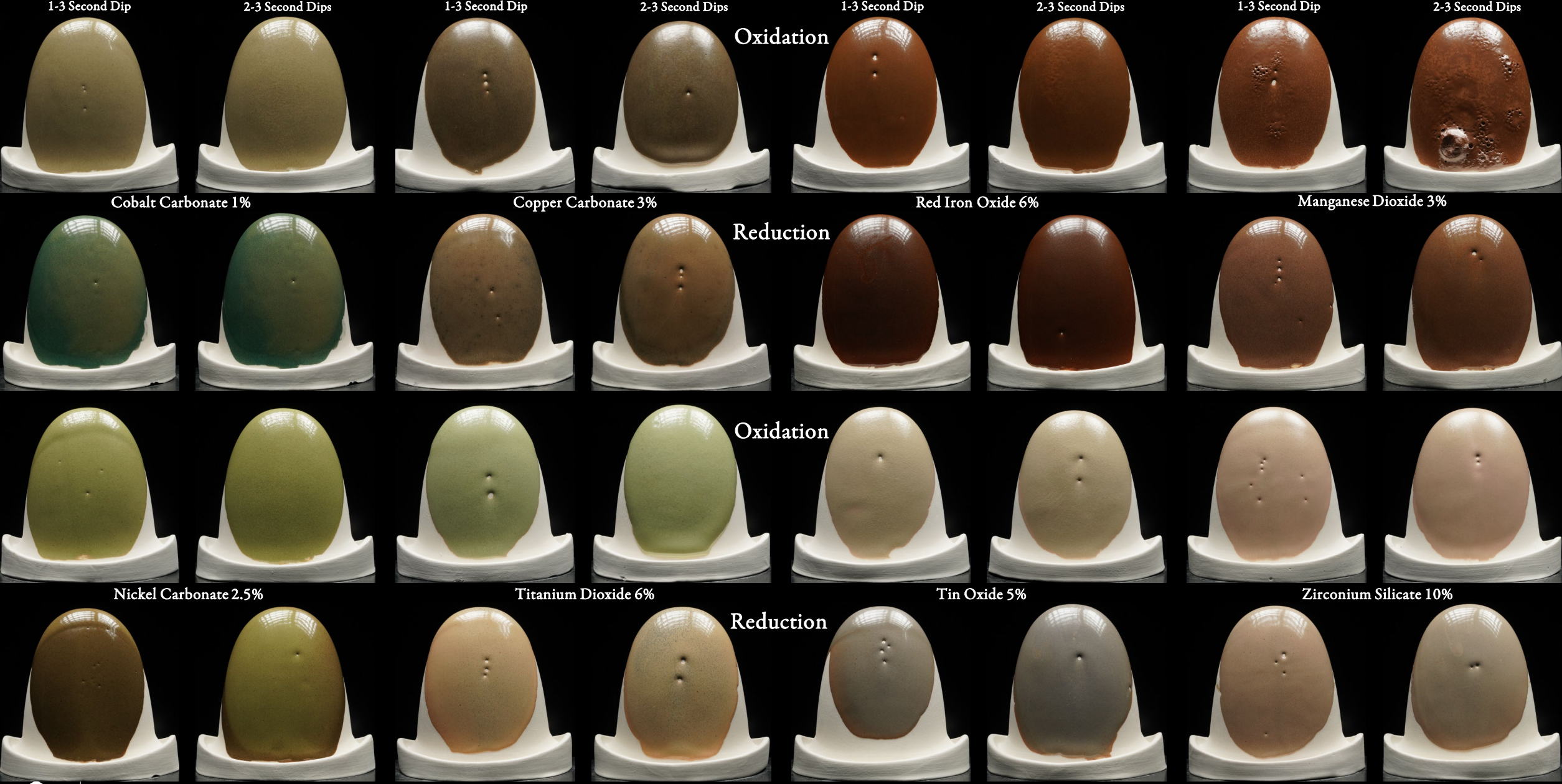
Ceramic
Materials
Workshop



Ceramic
Materials
Workshop

Cobalt Carbonate 1% (+4% Light Rutile)

ceramicmaterialsworkshop.com



Ceramic
Materials
Workshop

Chrome Oxide 1% (+4% Light Rutile)

ceramicmaterialsworkshop.com

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

Oxidation

Chrome Oxide 1%

Cobalt Carbonate 1%

Red Iron Oxide 6%

Manganese Dioxide 3%

Reduction

Oxidation

Nickel Carbonate 2.5%

Titanium Dioxide 6%

Tin Oxide 5%

Zirconium Silicate 10%

Reduction



Ceramic
Materials
Workshop

Copper Carbonate 3% (+4% Light Rutile)

ceramicmaterialsworkshop.com

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

Oxidation

Cobalt Carbonate 1%

Chrome Oxide 1%

Copper Carbonate 3%

Manganese Dioxide 3%

Reduction

Nickel Carbonate 2.5%

Titanium Dioxide 6%

Tin Oxide 5%

Zirconium Silicate 10%

Oxidation

Reduction



Ceramic
Materials
Workshop

Red Iron Oxide 6% (+4% Light Rutile)

ceramicmaterialsworkshop.com

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

Oxidation

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

Cobalt Carbonate 1%

Chrome Oxide 1%

Copper Carbonate 3%

Red Iron Oxide 6%

Reduction

Oxidation

Nickel Carbonate 2.5%

Titanium Dioxide 6%

Tin Oxide 5%

Zirconium Silicate 10%

Reduction



Ceramic
Materials
Workshop

Manganese Dioxide 3% (+4% Light Rutile)

ceramicmaterialsworkshop.com

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

Oxidation

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

Cobalt Carbonate 1%

Chrome Oxide 1%

Copper Carbonate 3%

Red Iron Oxide 6%

Reduction

Oxidation

Manganese Dioxide 3%

Titanium Dioxide 6%

Tin Oxide 5%

Zirconium Silicate 10%

Reduction



Ceramic
Materials
Workshop

Nickel Carbonate 2.5% (+4% Light Rutile)

ceramicmaterialsworkshop.com



Ceramic
Materials
Workshop

Titanium Dioxide 6% (+4% Light Rutile)

ceramicmaterialsworkshop.com

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

Oxidation

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

Cobalt Carbonate 1%

Chrome Oxide 1%

Copper Carbonate 3%

Red Iron Oxide 6%

Reduction

Manganese Dioxide 3%

Nickel Carbonate 2.5%

Titanium Dioxide 6%

Zirconium Silicate 10%

Oxidation

Reduction



Ceramic
Materials
Workshop

Tin Oxide 5% (+4% Light Rutile)

ceramicmaterialsworkshop.com

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

Oxidation

1-3 Second Dip

2-3 Second Dips

1-3 Second Dip

2-3 Second Dips

Cobalt Carbonate 1%

Chrome Oxide 1%

Copper Carbonate 3%

Red Iron Oxide 6%

Reduction

Manganese Dioxide 3%

Nickel Carbonate 2.5%

Titanium Dioxide 6%

Tin Oxide 5%

Reduction



Ceramic
Materials
Workshop

Zirconium Silicate 10% (+4% Light Rutile)

ceramicmaterialsworkshop.com