

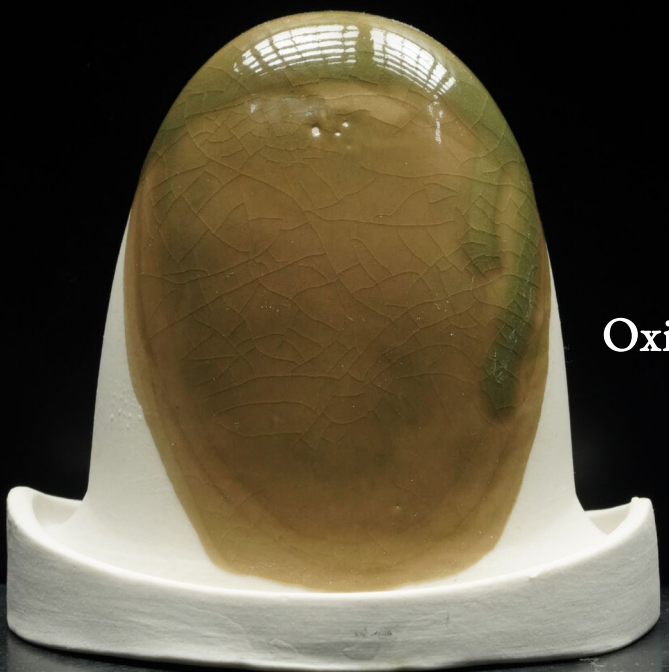
# 4321- $\Delta$ 10

## Lab 5b-Color Wheel 2

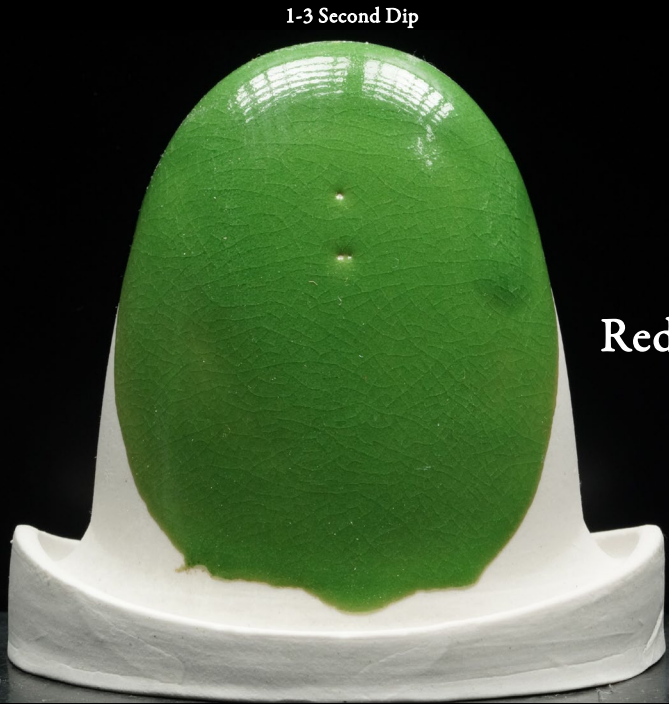
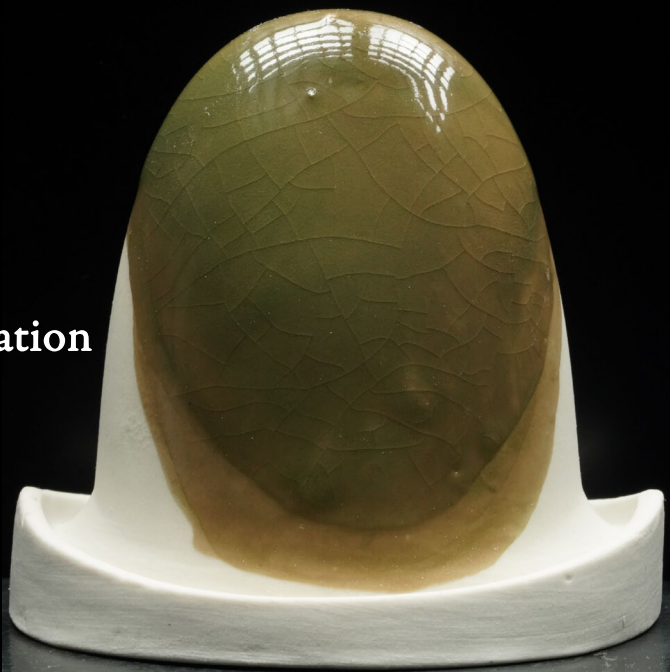
4321

Original  
062322-1

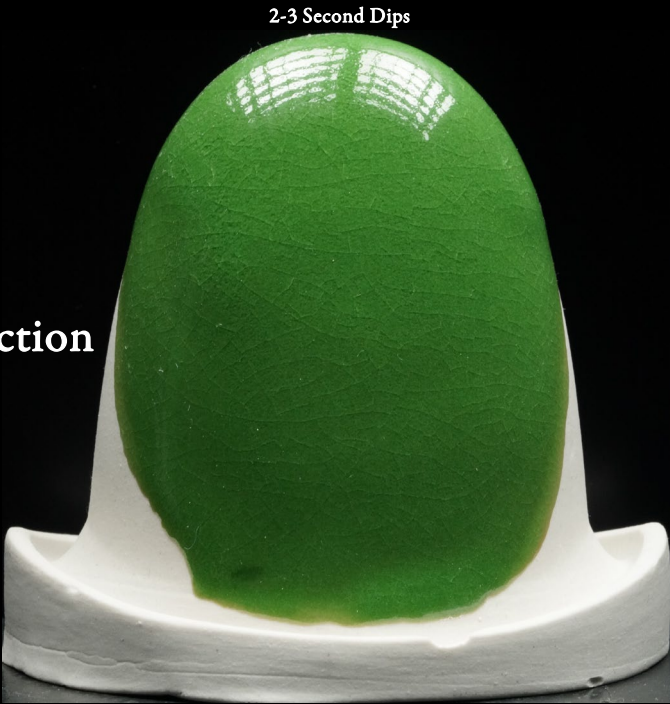
Neph Sy	40.00
Whiting	20.00
EPK	10.00
Flint	30.00
Chrome Oxide	1.00
Water	60



Oxidation

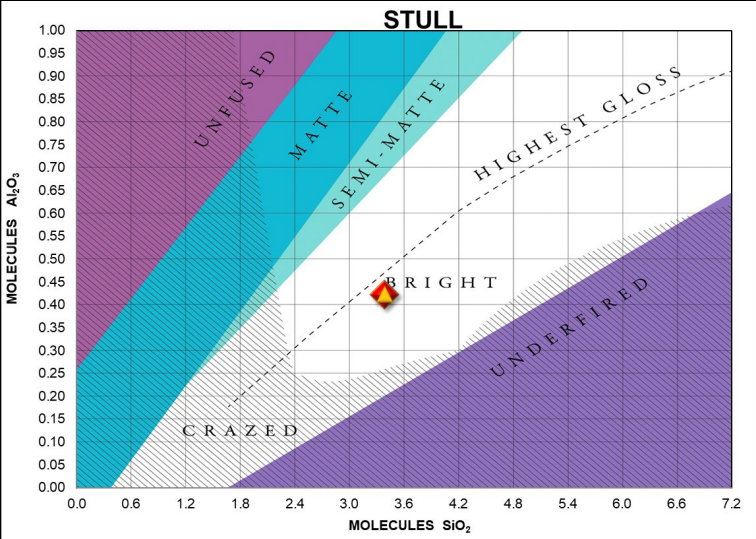


Reduction



UMF

SiO <sub>2</sub> :Al <sub>2</sub> O <sub>3</sub> Ratio 7.99 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO <sub>2</sub> 3.39	Collective "Al <sub>2</sub> O <sub>3</sub> " 0.42	Na <sub>2</sub> O 0.23	K <sub>2</sub> O 0.07	MgO 0.00	CaO 0.70
B <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub> 0.42	Li <sub>2</sub> O	CuO	SrO	BaO
TiO <sub>2</sub> 0.00	NiO	Bi <sub>2</sub> O <sub>3</sub>	SnO <sub>2</sub>	ZnO	FeO 0.01
Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>		MnO <sub>2</sub>	CoO



EUMF

SiO <sub>2</sub> :Al <sub>2</sub> O <sub>3</sub> Ratio 7.99 : 1		Alkali Metals 0.29		Alkaline Earths 0.71	
SiO <sub>2</sub> 3.39	Collective "Al <sub>2</sub> O <sub>3</sub> " 0.42	Na <sub>2</sub> O 0.23	K <sub>2</sub> O 0.07	MgO 0.00	CaO 0.70
B <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub> 0.42	Li <sub>2</sub> O	CuO	SrO	BaO
TiO <sub>2</sub> 0.00	NiO	Bi <sub>2</sub> O <sub>3</sub>	SnO <sub>2</sub>	ZnO	FeO 0.01
Cr <sub>2</sub> O <sub>3</sub> 0.02	ZrO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>		MnO <sub>2</sub>	CoO



Ceramic  
Materials  
Workshop



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

Chrome Oxide 1%

Copper Carbonate 3%

Red Iron Oxide 6%

Manganese Dioxide 3%

Reduction

Oxidation

Nickel Carbonate 2.5%

Titanium Dioxide 6%

Tin Oxide 5%

Zirconium Silicate 10%

Reduction

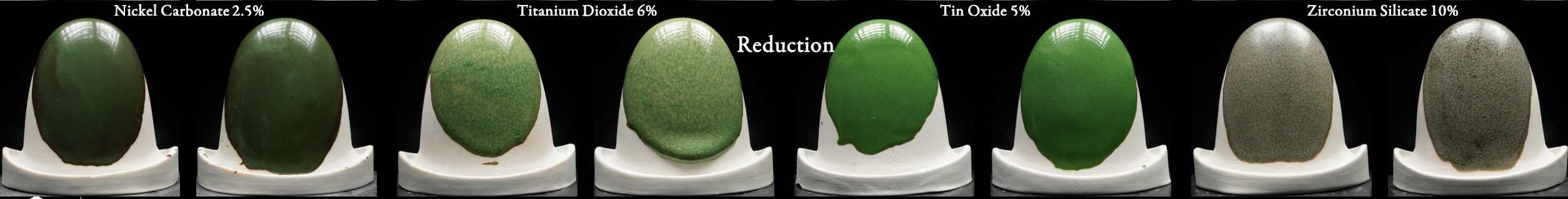
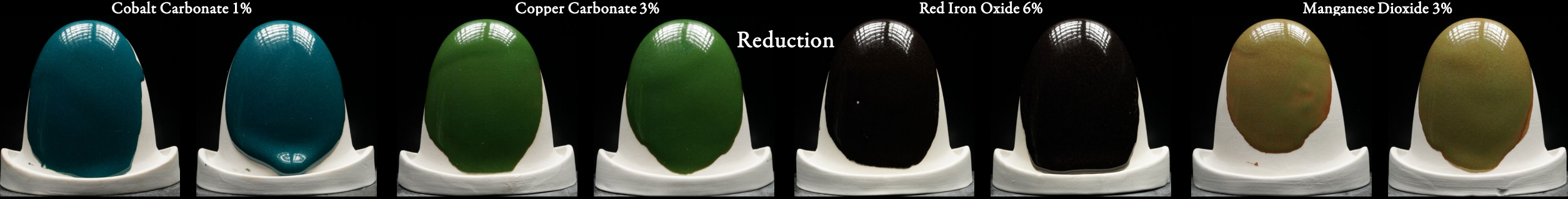
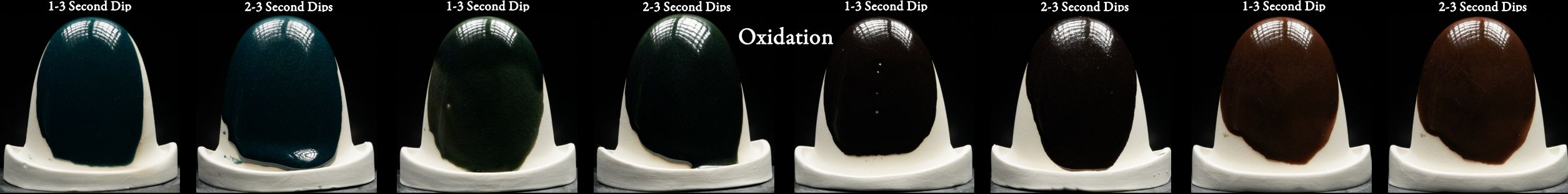


Ceramic  
Materials  
Workshop

# Cobalt Carbonate 1%

[ceramicmaterialsworkshop.com](http://ceramicmaterialsworkshop.com)





Ceramic  
Materials  
Workshop

# Chrome Oxide 1%

[ceramicmaterialsworkshop.com](http://ceramicmaterialsworkshop.com)



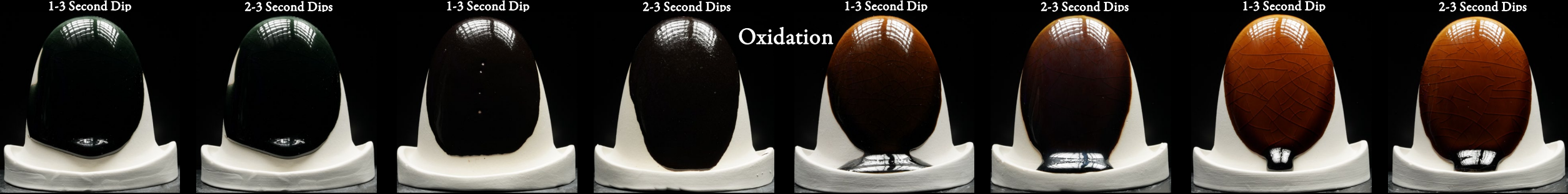


Ceramic  
Materials  
Workshop

# Copper Carbonate 3%

[ceramicmaterialsworkshop.com](http://ceramicmaterialsworkshop.com)





Ceramic  
Materials  
Workshop

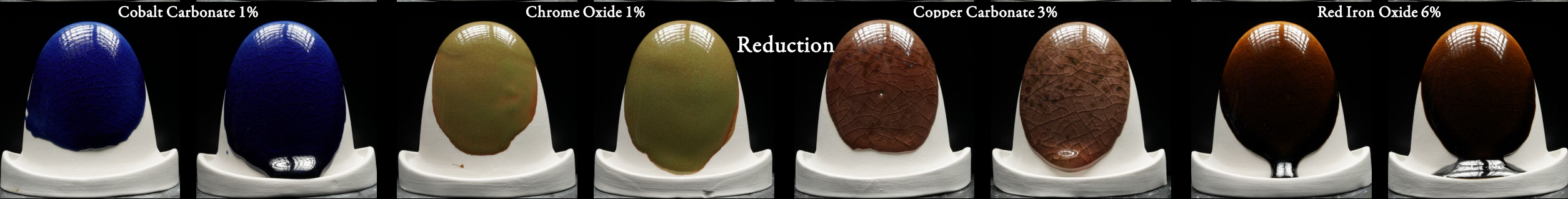
# Red Iron Oxide 6%

[ceramicmaterialsworkshop.com](http://ceramicmaterialsworkshop.com)





Oxidation



Reduction



Oxidation



Reduction



Ceramic  
Materials  
Workshop

# Manganese Dioxide 3%

[ceramicmaterialsworkshop.com](http://ceramicmaterialsworkshop.com)



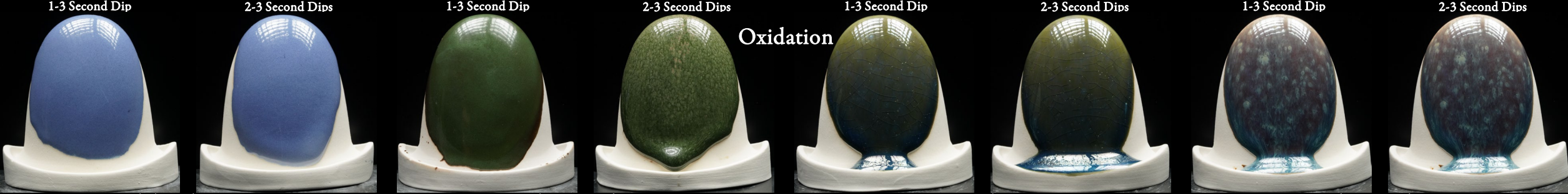


Ceramic  
Materials  
Workshop

# Nickel Carbonate 2.5%

[ceramicmaterialsworkshop.com](http://ceramicmaterialsworkshop.com)





Ceramic  
Materials  
Workshop

# Titanium Dioxide 6%

[ceramicmaterialsworkshop.com](http://ceramicmaterialsworkshop.com)





Ceramic  
Materials  
Workshop

# Tin Oxide 5%

[ceramicmaterialsworkshop.com](http://ceramicmaterialsworkshop.com)





Ceramic  
Materials  
Workshop

# Zirconium Silicate 10%

[ceramicmaterialsworkshop.com](http://ceramicmaterialsworkshop.com)