

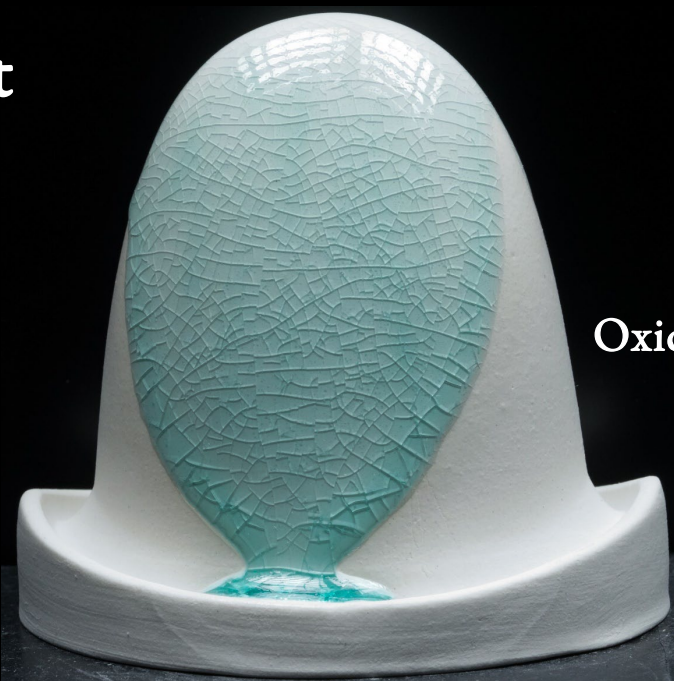
Birdie's Nest- $\Delta 6$

Lab 5b-Color Wheel 2

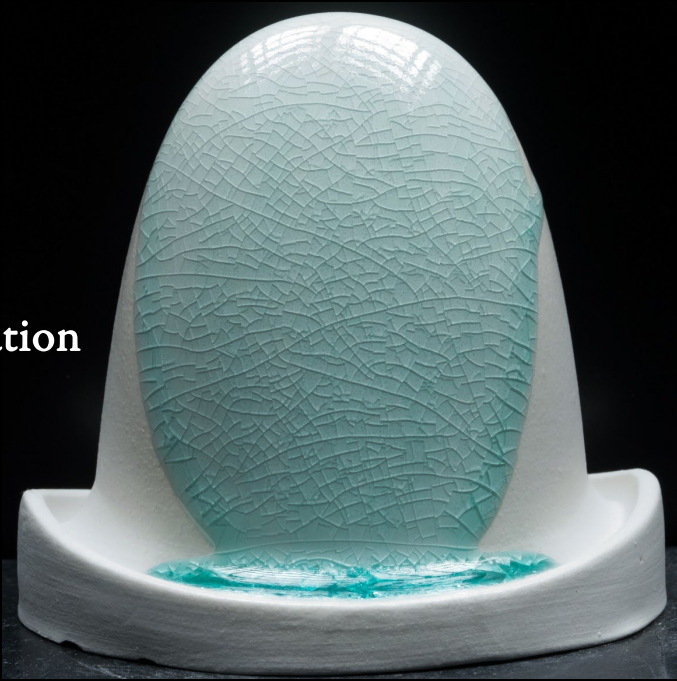
Birdie's Nest

Original
070722-1

Neph Sy	24.36
Dolomite	20.28
EPK	5.92
Flint	17.84
3134	29.59
Bentonite	2.01
Copper Carbonate	0.50
Water	60



1-3 Second Dip



2-3 Second Dips



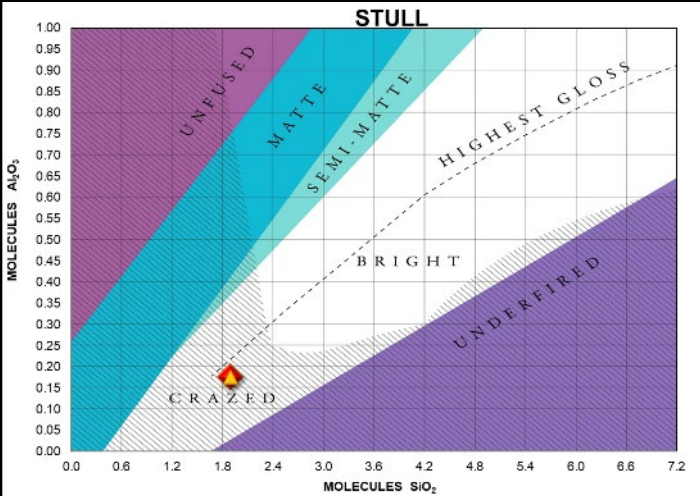
Reduction



Oxidation

UMF

SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 1.91	Collective "Al ₂ O ₃ " 0.18	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.51
B ₂ O ₃ 0.20	Al ₂ O ₃ 0.18	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

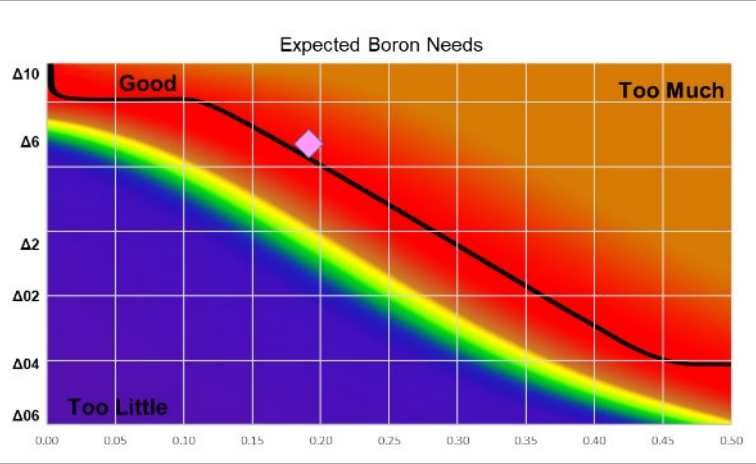
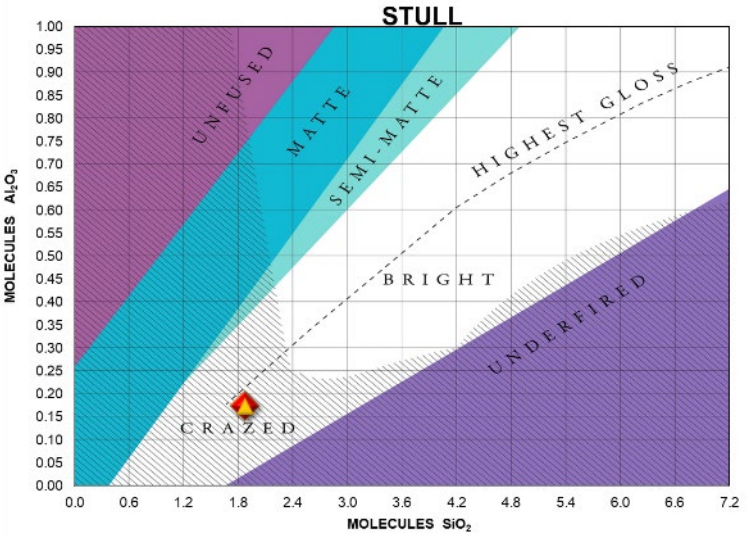
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.24		Alkaline Earths 0.76	
SiO ₂ 1.90	Collective "Al ₂ O ₃ " 0.18	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.51
B ₂ O ₃ 0.19	Al ₂ O ₃ 0.18	Li ₂ O	CuO 0.01	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



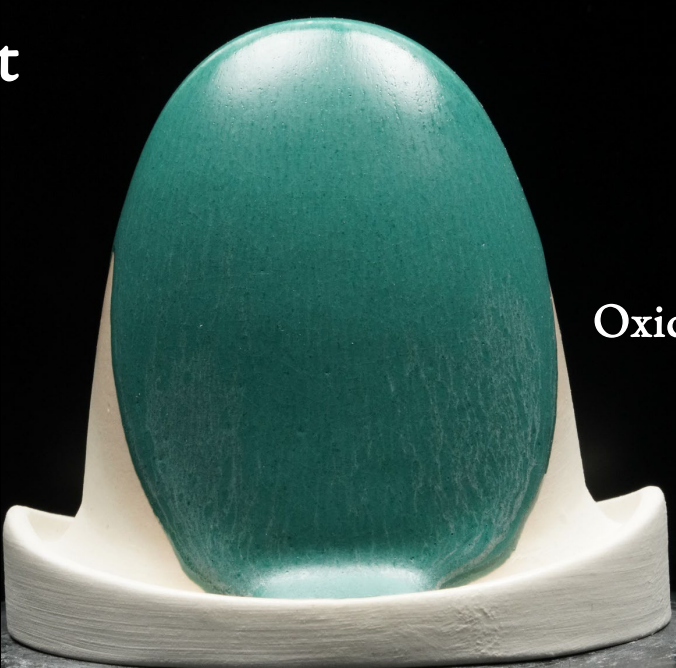
Ceramic
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Birdie's Nest

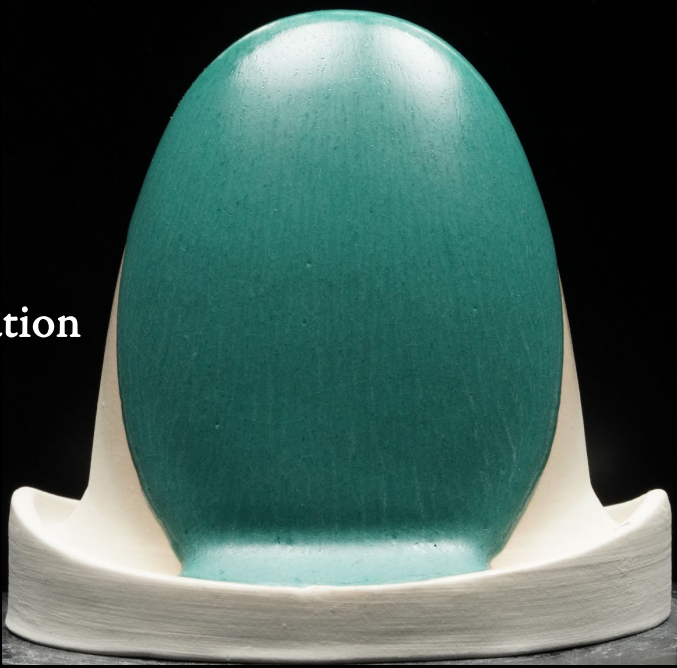
SiO ₂ :Al ₂ O ₃ Ratio 10.78 :1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 1.88	Collective "Al ₂ O ₃ " 0.17	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.50
B ₂ O ₃ 0.19	Al ₂ O ₃ 0.17	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



Neph Sy	23.88
Dolomite	19.89
EPK	5.80
Flint	17.49
3134	29.01
Bentonite	1.97
Cobalt Carbonate	0.98
Chrome Oxide	0.98
Water	180



Oxidation



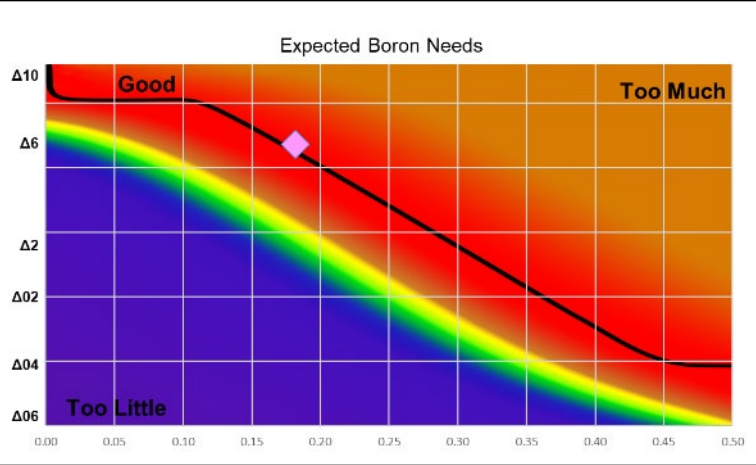
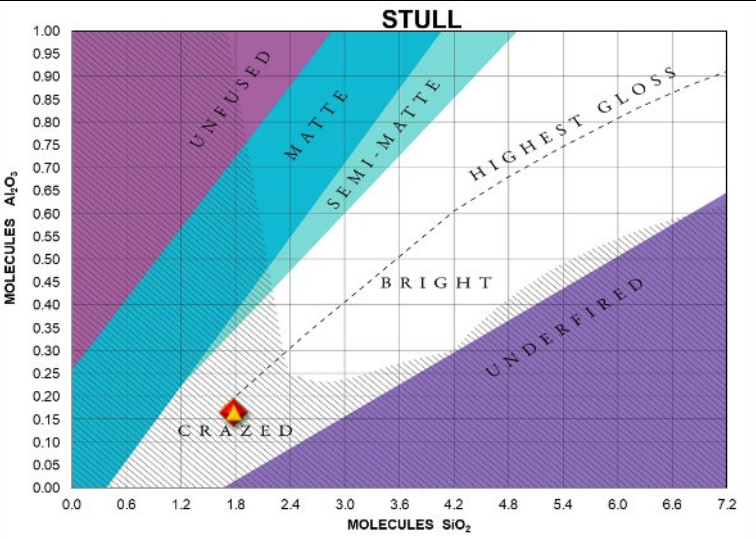
Reduction



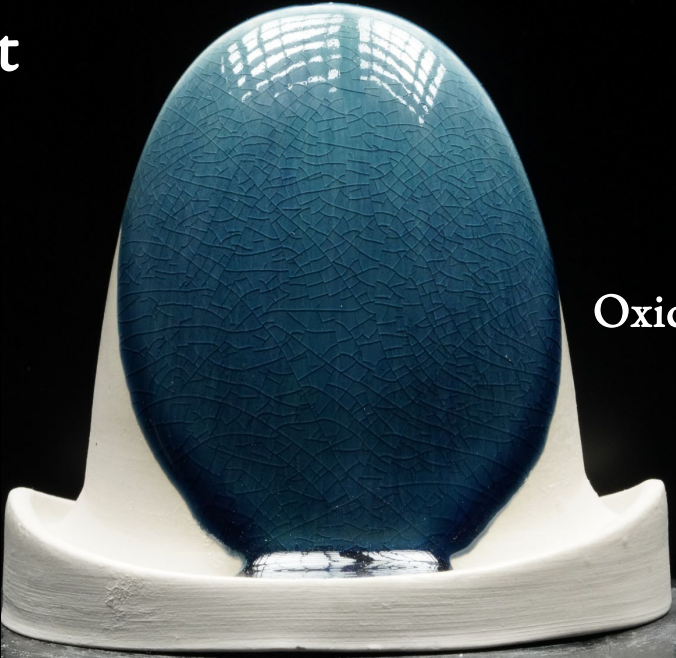
Ceramic
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Birdie's Nest

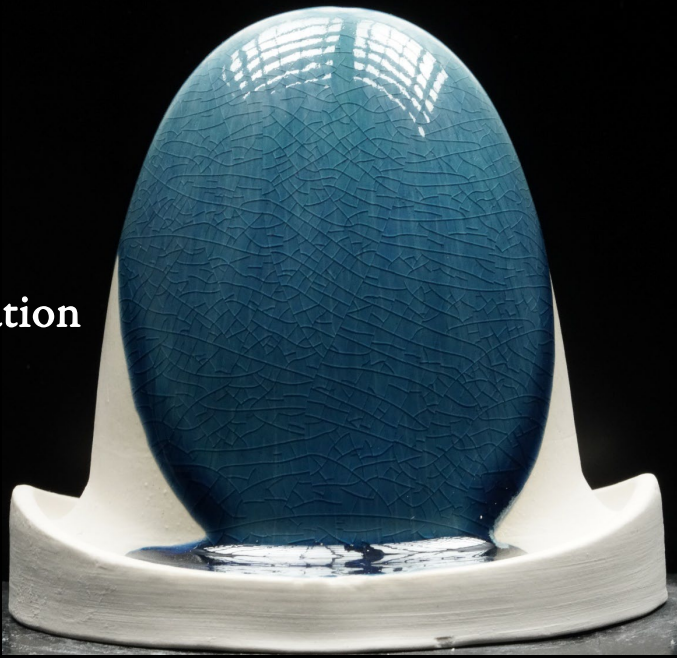
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 1.78	Collective "Al ₂ O ₃ " 0.17	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.48
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



Neph Sy	23.43
Dolomite	19.50
EPK	5.69
Flint	17.15
3134	28.45
Bentonite	1.93
Cobalt Carbonate	0.96
Copper Carbonate	2.88
Water	180



Oxidation



1-3 Second Dip

2-3 Second Dips



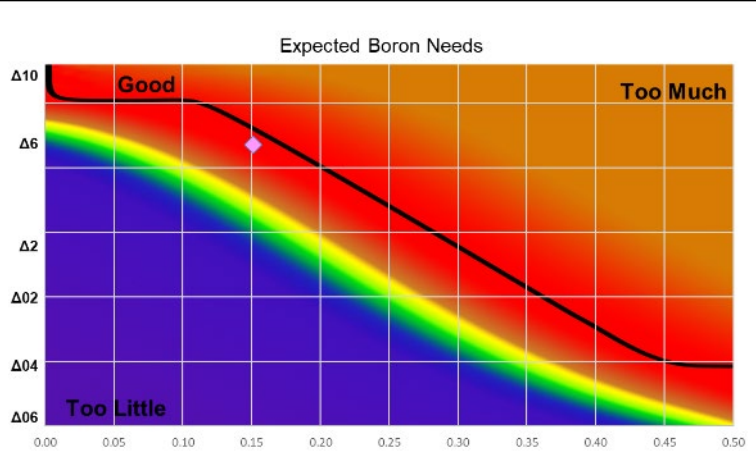
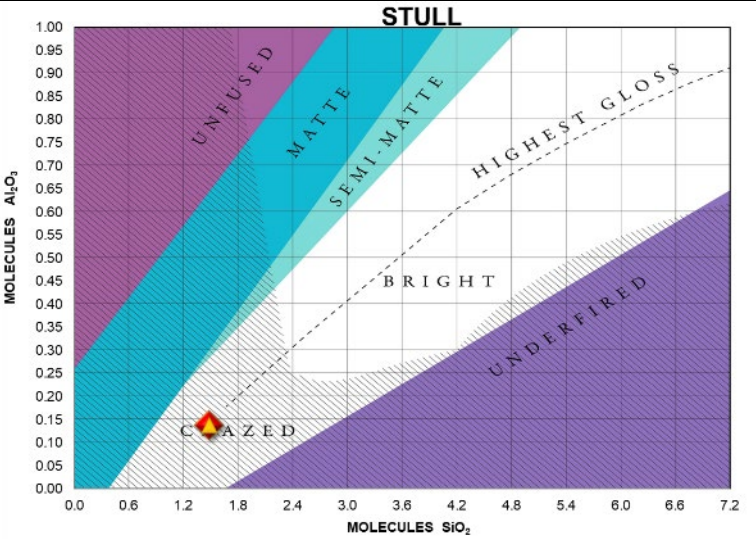
Reduction



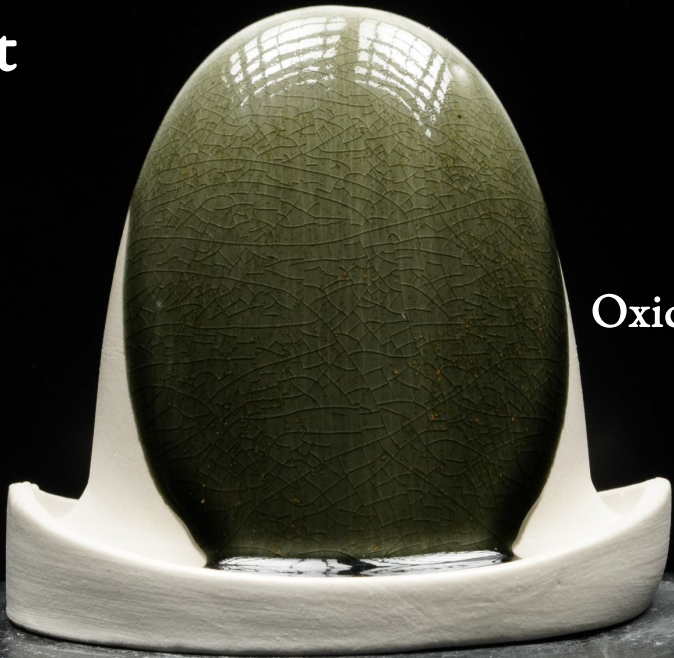
Ceramic
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Birdie's Nest

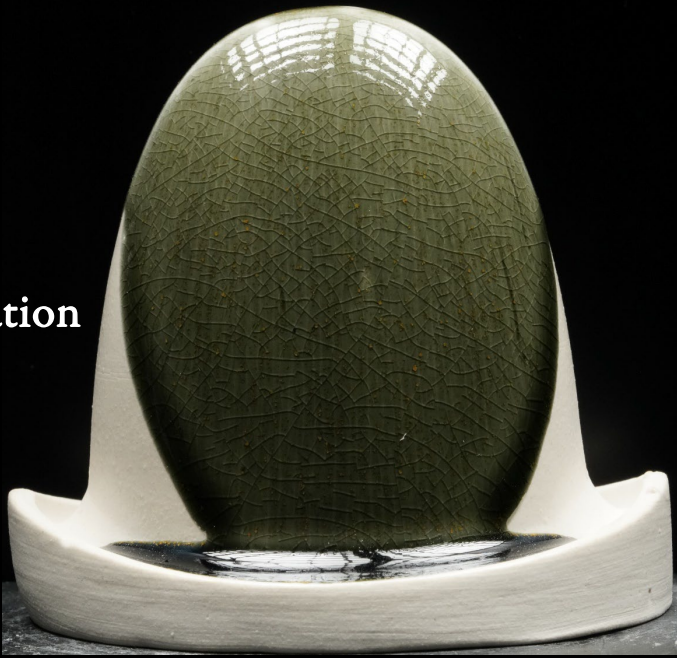
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.18		Alkaline Earths 0.82	
SiO ₂ 1.48	Collective "Al ₂ O ₃ " 0.14	Na ₂ O 0.16	K ₂ O 0.02	MgO 0.20	CaO 0.40
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.14	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.21
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.01



Neph Sy	22.77
Dolomite	18.96
EPK	5.53
Flint	16.67
3134	27.65
Bentonite	1.88
Cobalt Carbonate	0.93
Red Iron Oxide	5.61
Water	180

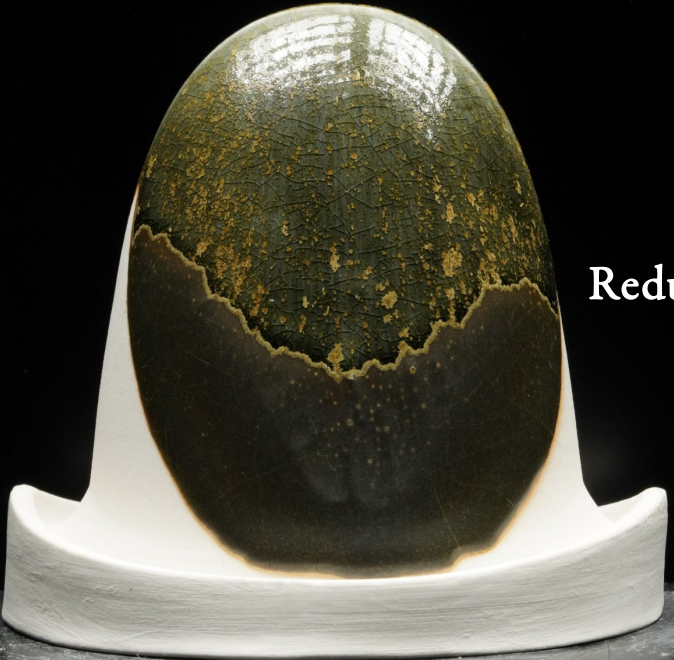


Oxidation



1-3 Second Dip

2-3 Second Dips



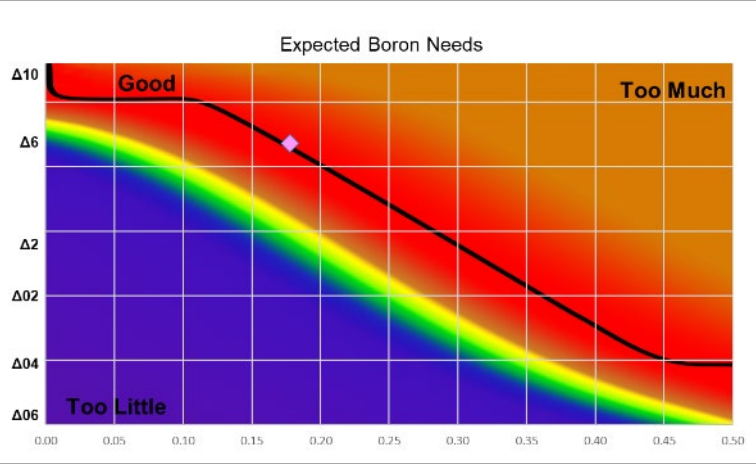
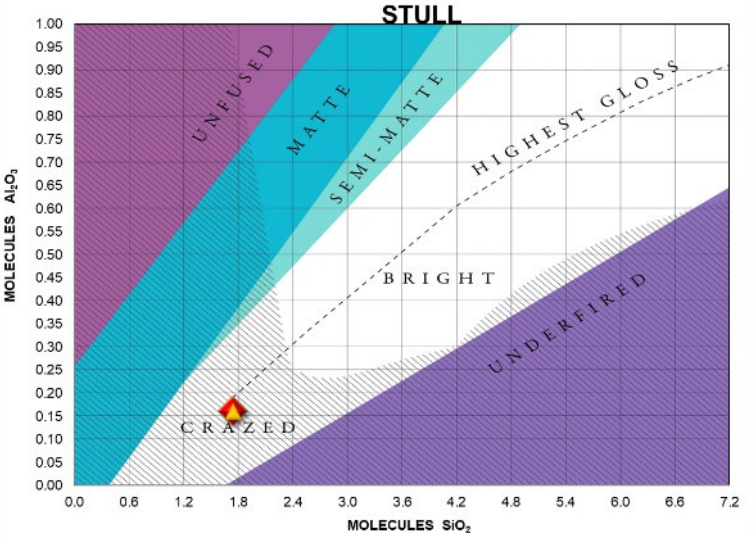
Reduction



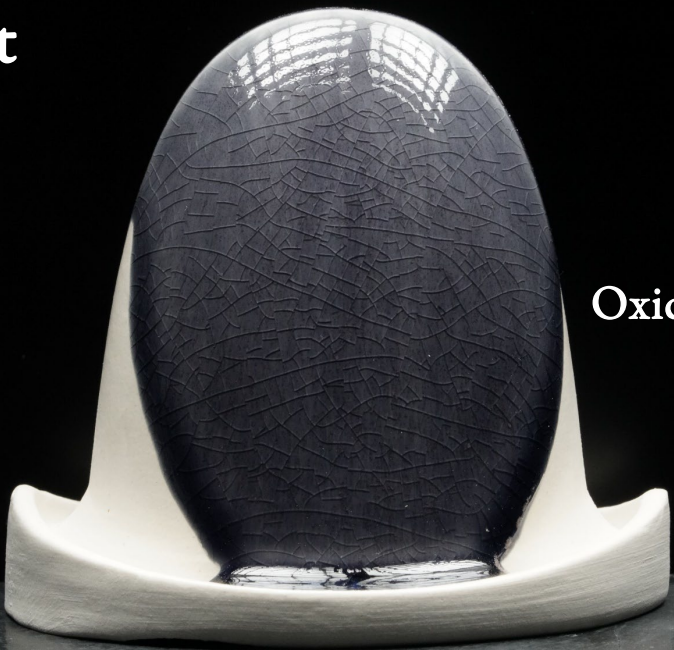
Ceramic
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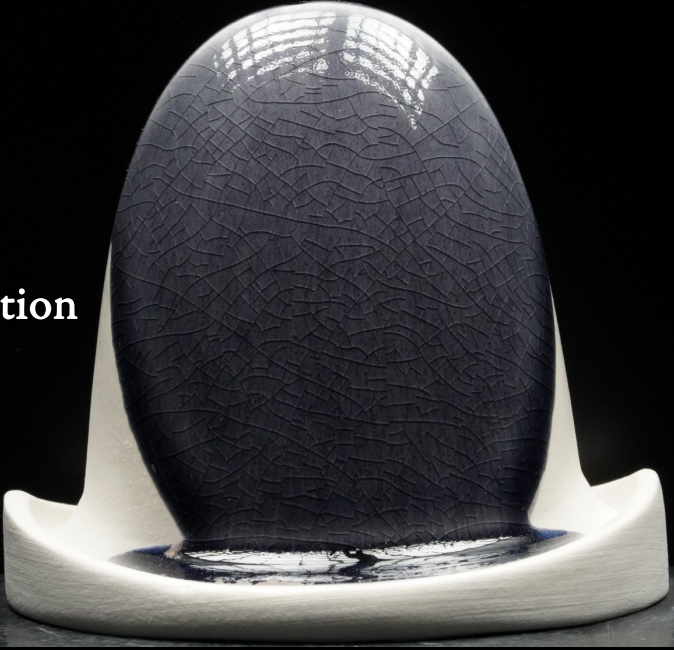
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.74	Collective "Al ₂ O ₃ " 0.16	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.47
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.07	CoO 0.02



Neph Sy	23.43
Dolomite	19.50
EPK	5.69
Flint	17.15
3134	28.45
Bentonite	1.93
Cobalt Carbonate	0.96
Manganese Dioxide	2.88
Water	180



Oxidation



1-3 Second Dip

2-3 Second Dips



Reduction



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Birdie's Nest

Neph Sy	23.54
Dolomite	19.60
EPK	5.72
Flint	17.23
3134	28.59
Bentonite	1.94
Cobalt Carbonate	0.97
Nickel Carb (Green)	2.42
Water	180



1-3 Second Dip



2-3 Second Dips

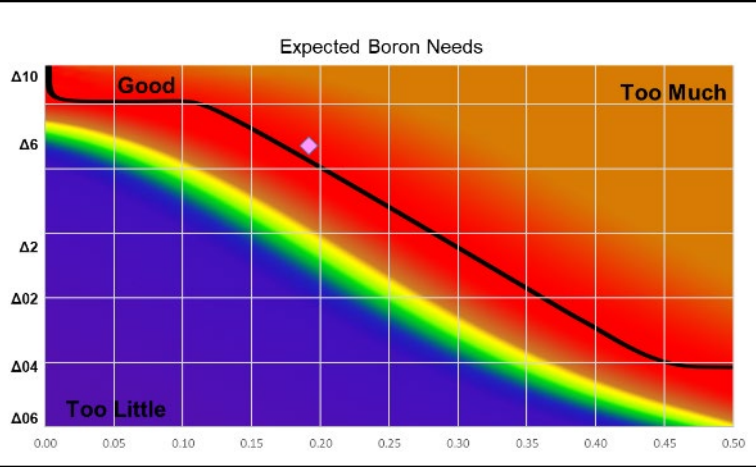
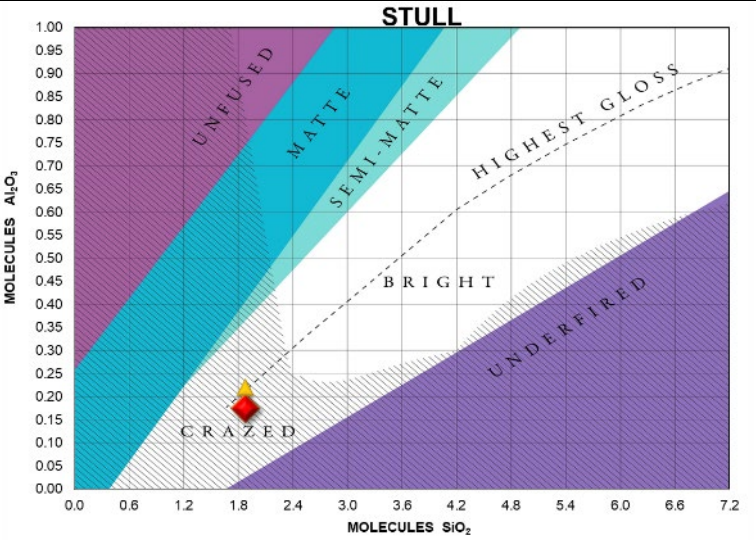


Reduction



Oxidation

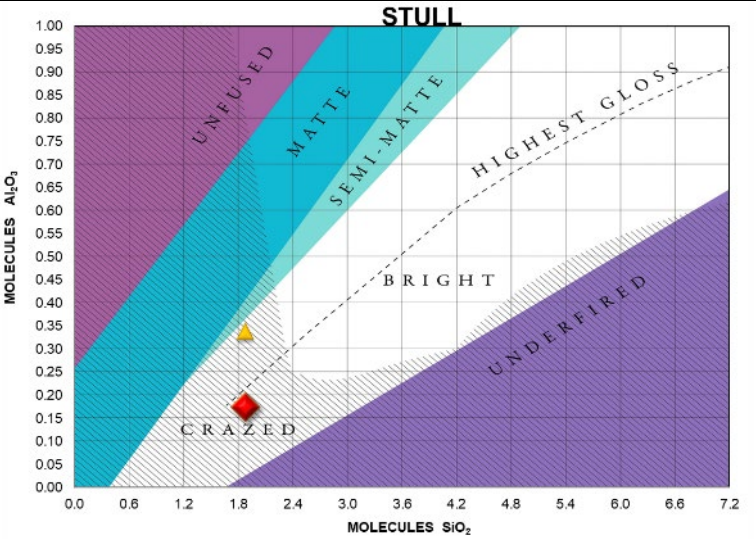
SiO ₂ :Al ₂ O ₃ Ratio 8.50 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 1.88	Collective "Al ₂ O ₃ " 0.22	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.50
B ₂ O ₃ 0.19	Al ₂ O ₃ 0.17	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.05	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



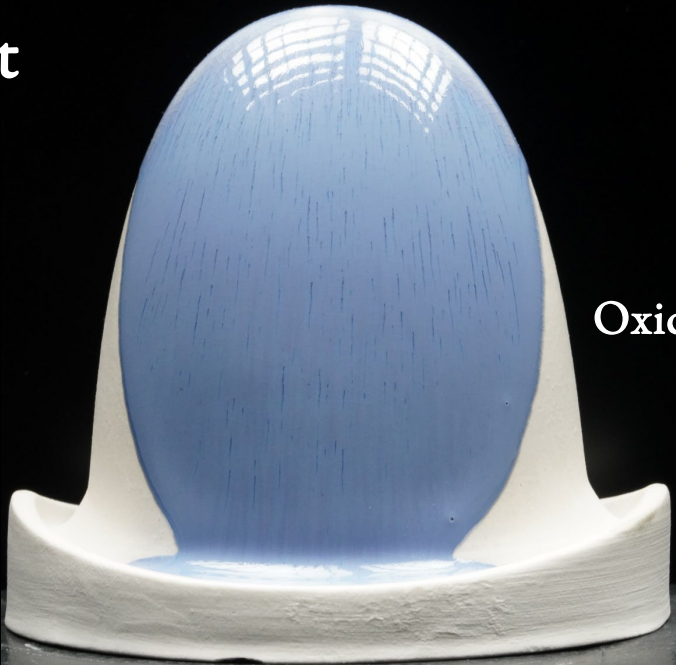
Ceramic
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Birdie's Nest

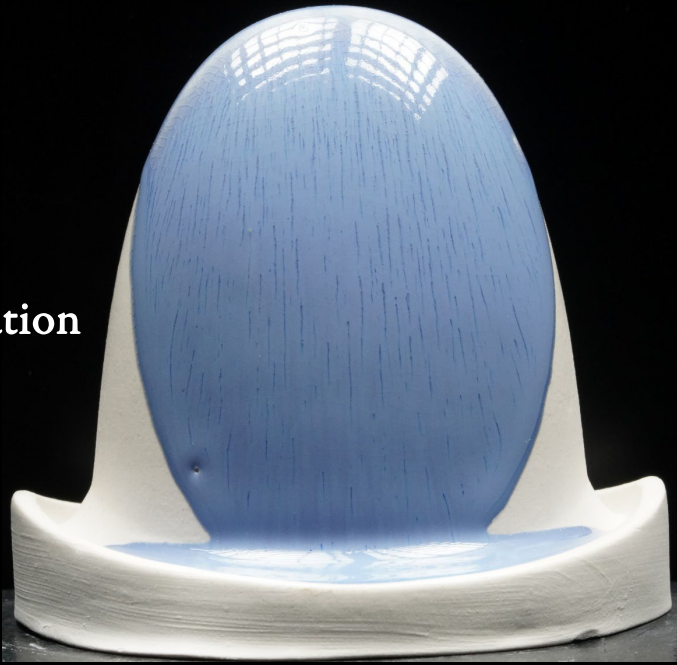
SiO ₂ :Al ₂ O ₃ Ratio 5.55 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 1.88	Collective "Al ₂ O ₃ " 0.34	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.50
B ₂ O ₃ 0.19	Al ₂ O ₃ 0.17	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.17	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02



Neph Sy	22.77
Dolomite	18.96
EPK	5.53
Flint	16.67
3134	27.65
Bentonite	1.88
Cobalt Carbonate	0.93
Titanium Dioxide	5.61
Water	180

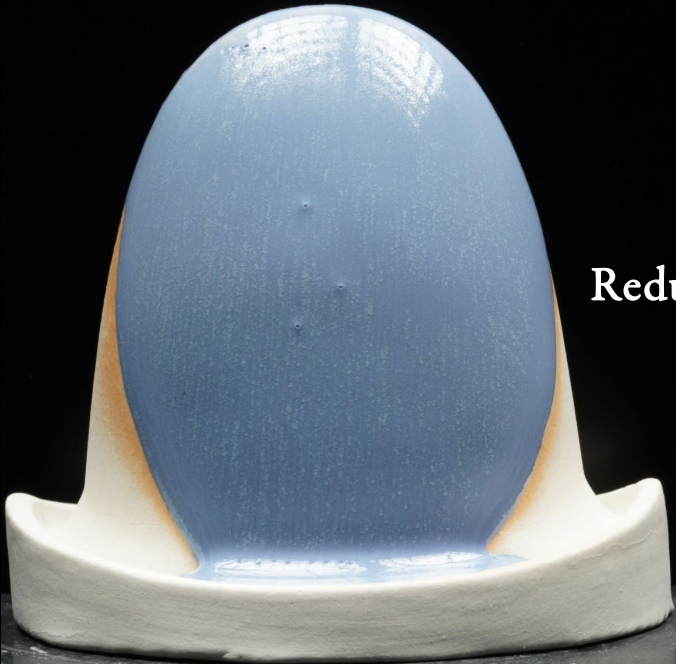


Oxidation

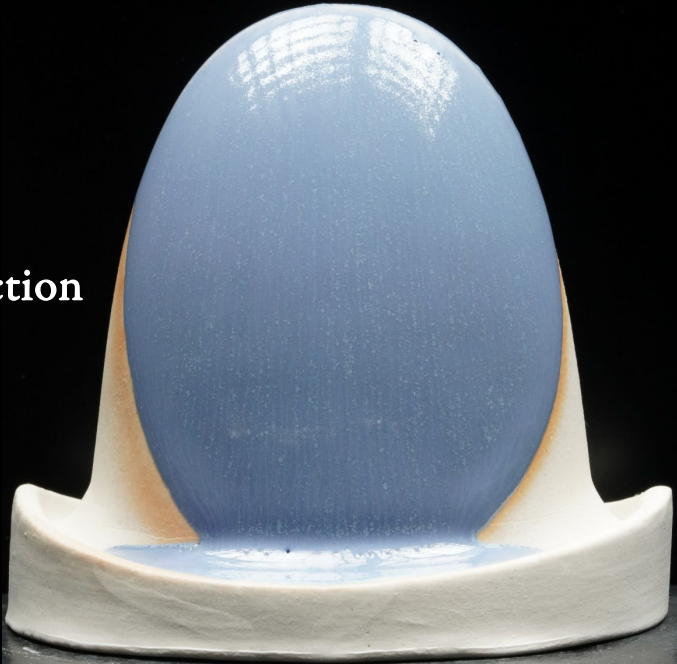


1-3 Second Dip

2-3 Second Dips



Reduction

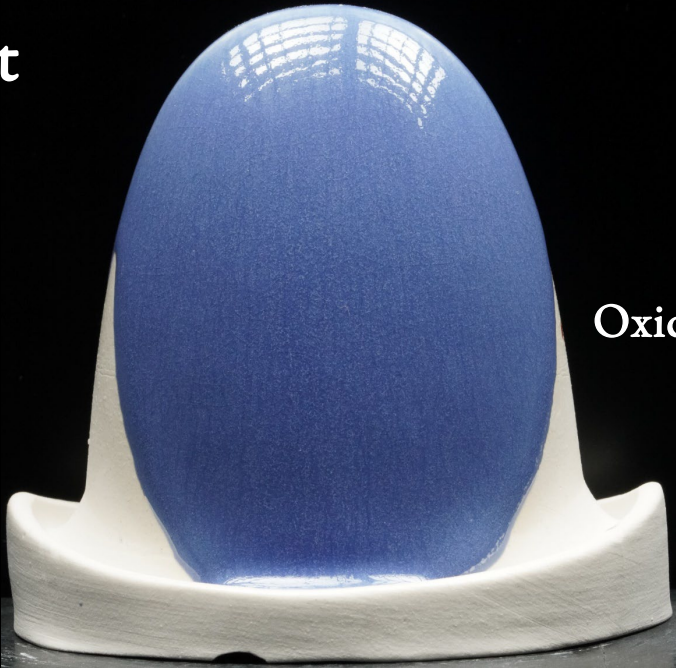


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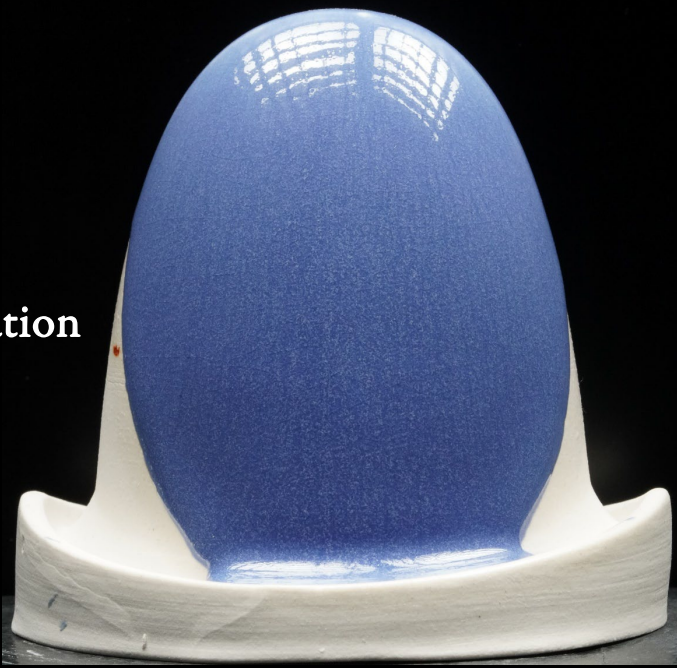
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.28		Alkaline Earths 0.72	
SiO ₂ 1.75	Collective "Al ₂ O ₃ " 0.16	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.47
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂ 0.07	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.02

Neph Sy	22.98
Dolomite	19.14
EPK	5.58
Flint	16.83
3134	27.91
Bentonite	1.90
Cobalt Carbonate	0.94
Tin Oxide	4.72
Water	180



Oxidation

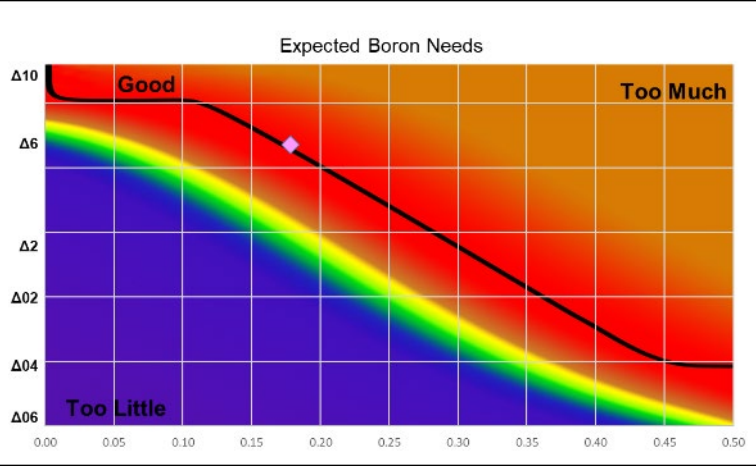
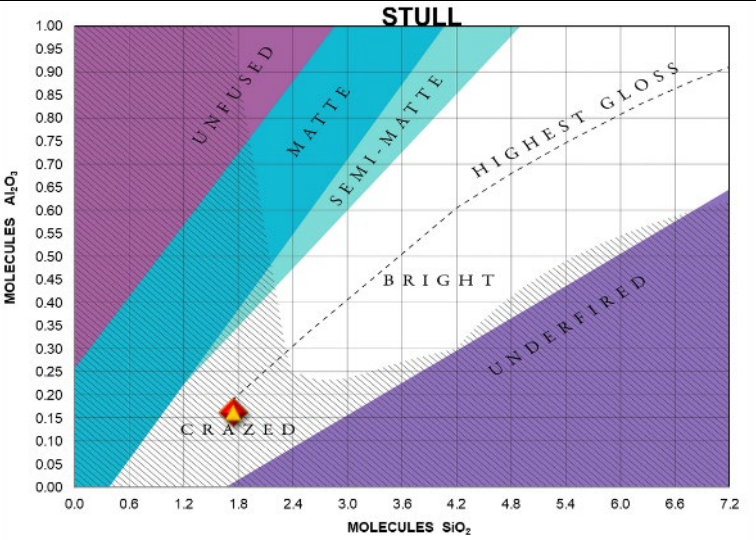
1-3 Second Dip



2-3 Second Dips



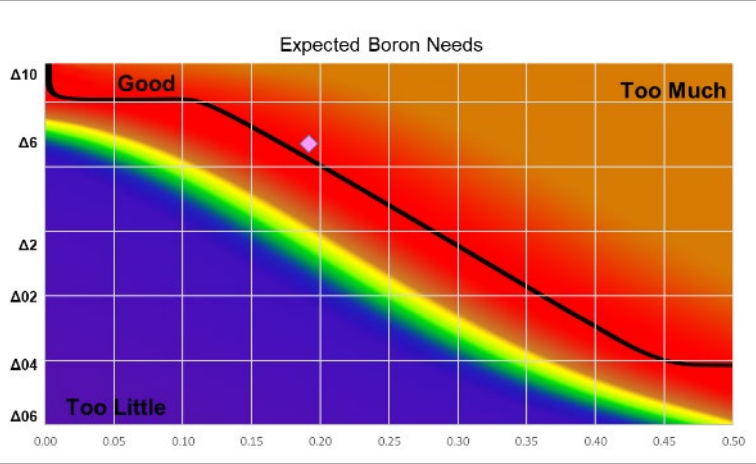
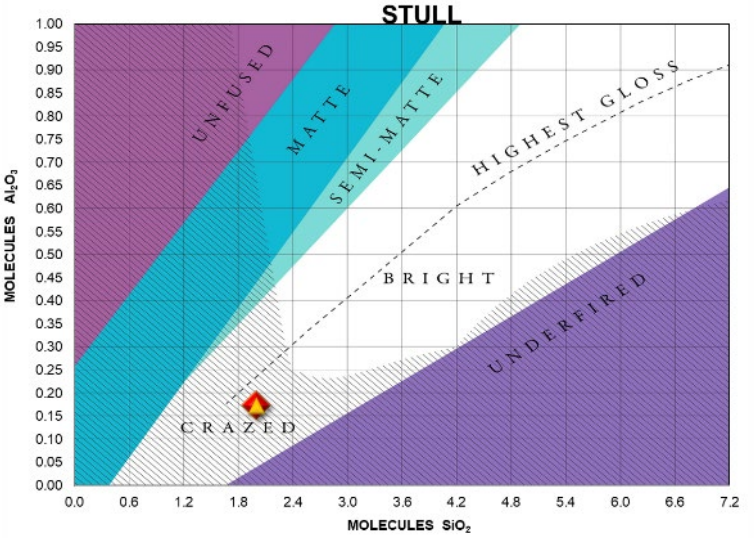
Reduction



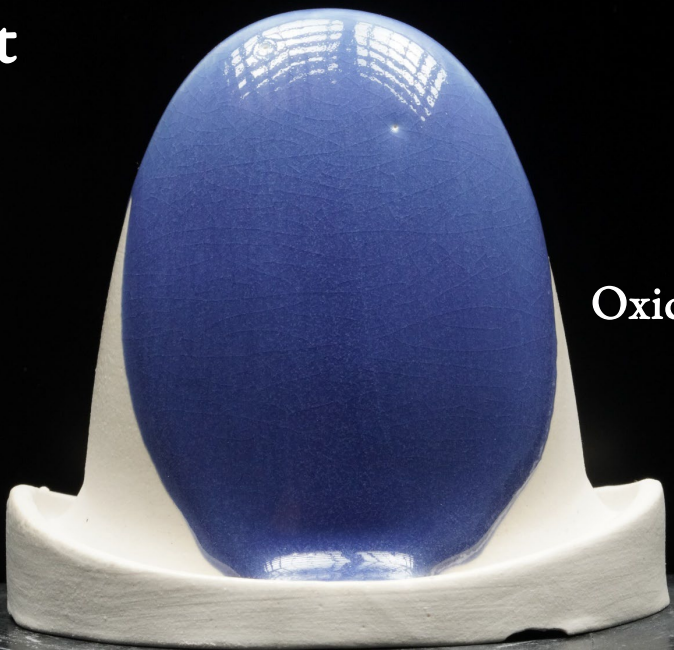
Ceramic
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Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 11.47 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.00	Collective "Al ₂ O ₃ " 0.17	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.50
B ₂ O ₃ 0.19	Al ₂ O ₃ 0.17	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

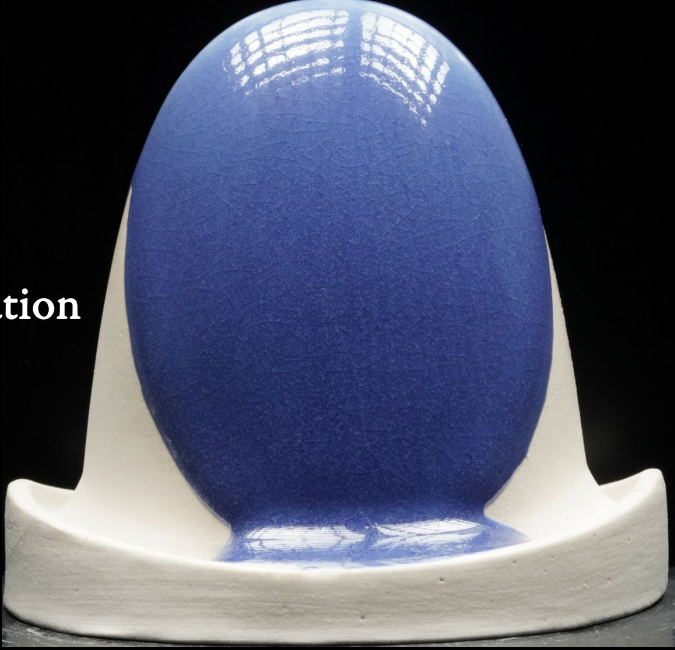


Neph Sy	21.95
Dolomite	18.27
EPK	5.33
Flint	16.07
3134	26.65
Bentonite	1.81
Cobalt Carbonate	0.90
Ultrox (Zircopax)	9.01
Water	180

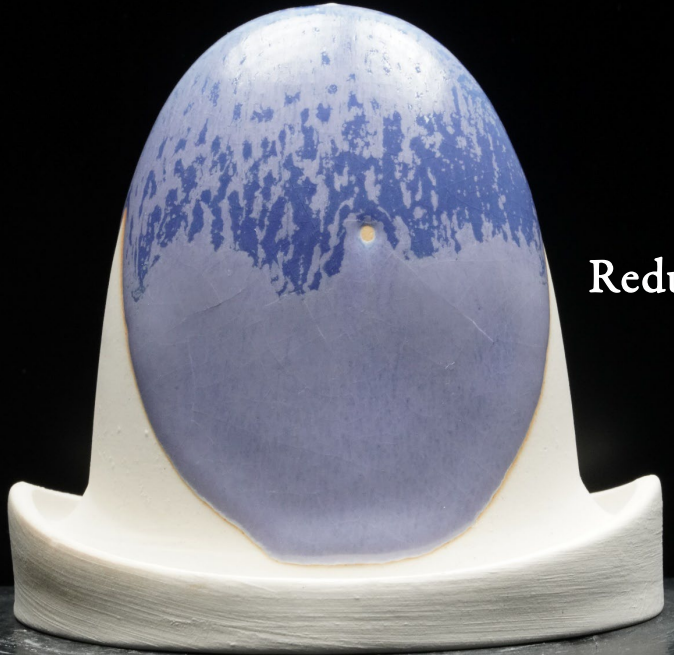


Oxidation

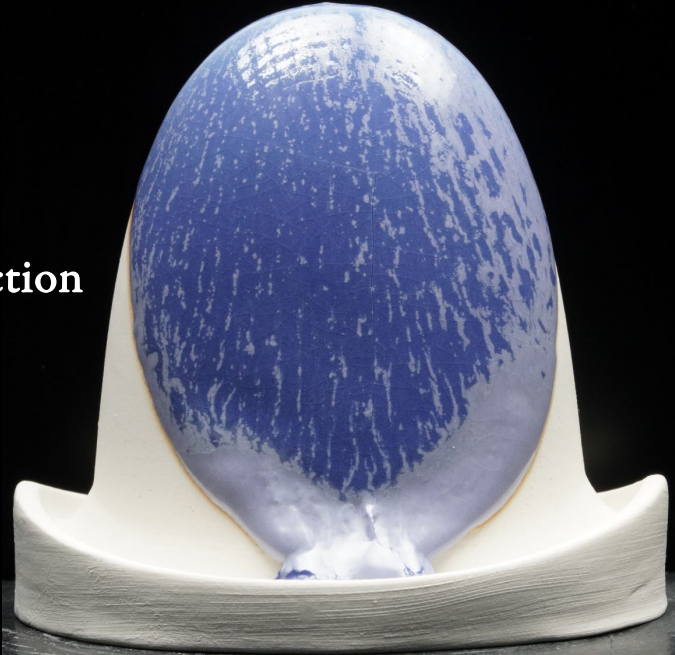
1-3 Second Dip



2-3 Second Dips



Reduction



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Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 10.78 :1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 1.81	Collective "Al ₂ O ₃ " 0.17	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.24	CaO 0.49
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.17	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

Neph Sy	23.43
Dolomite	19.50
EPK	5.69
Flint	17.15
3134	28.45
Bentonite	1.93
Chrome Oxide	0.96
Copper Carbonate	2.88
Water	120



1-3 Second Dip

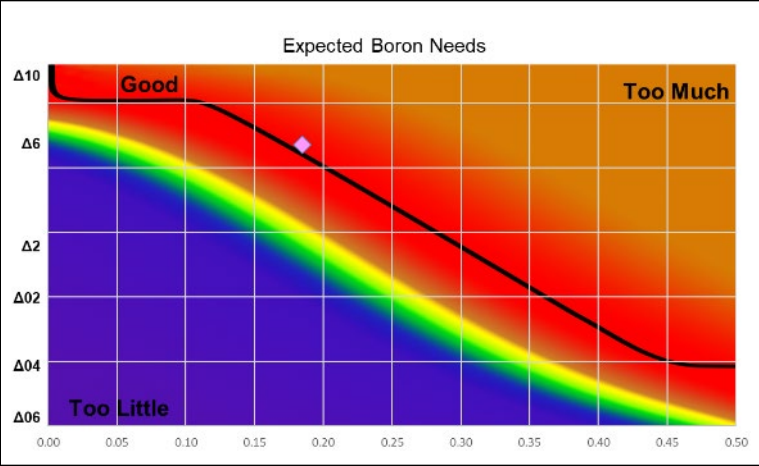
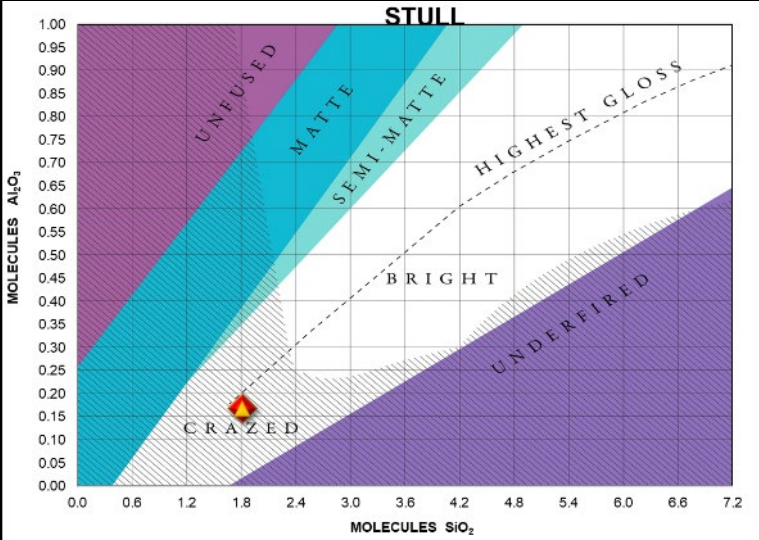


2-3 Second Dips

Oxidation



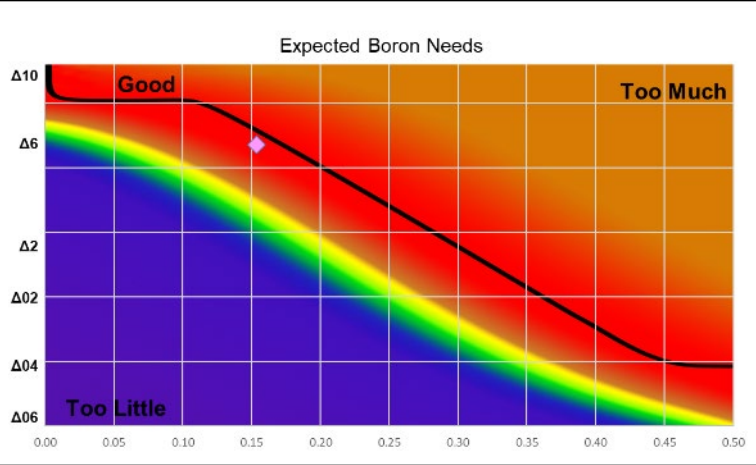
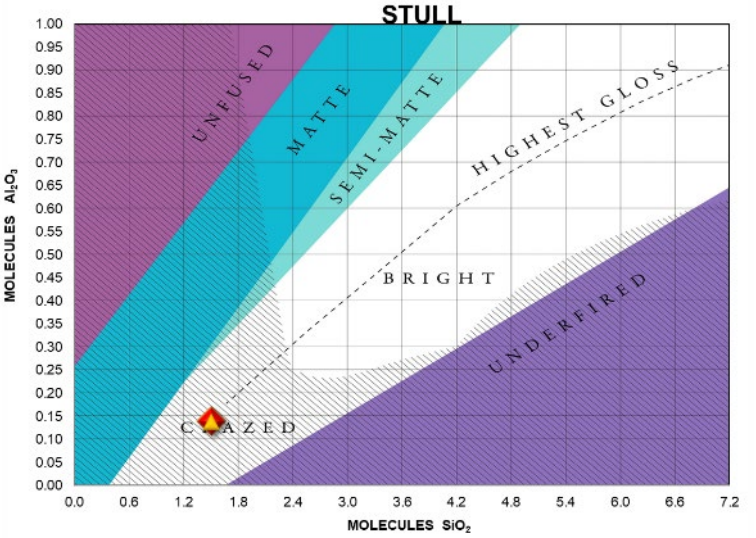
Reduction



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SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.18		Alkaline Earths 0.82	
SiO ₂ 1.51	Collective "Al ₂ O ₃ " 0.14	Na ₂ O 0.16	K ₂ O 0.02	MgO 0.20	CaO 0.40
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.14	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.22
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Neph Sy	22.77
Dolomite	18.96
EPK	5.53
Flint	16.67
3134	27.65
Bentonite	1.88
Chrome Oxide	0.93
Red Iron Oxide	5.61
Water	120



1-3 Second Dip



2-3 Second Dips



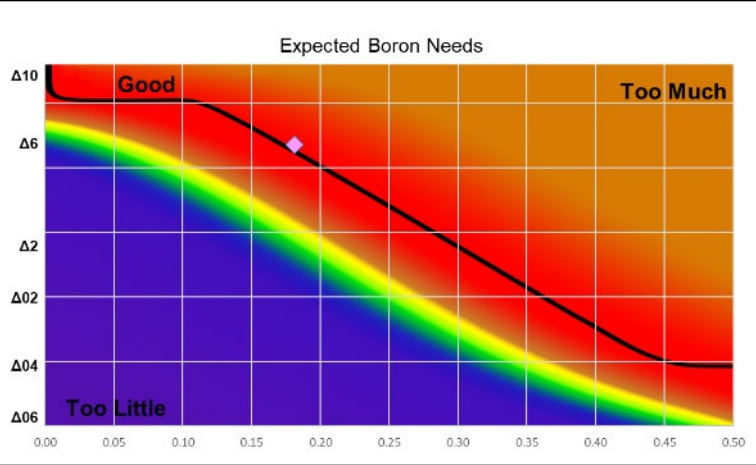
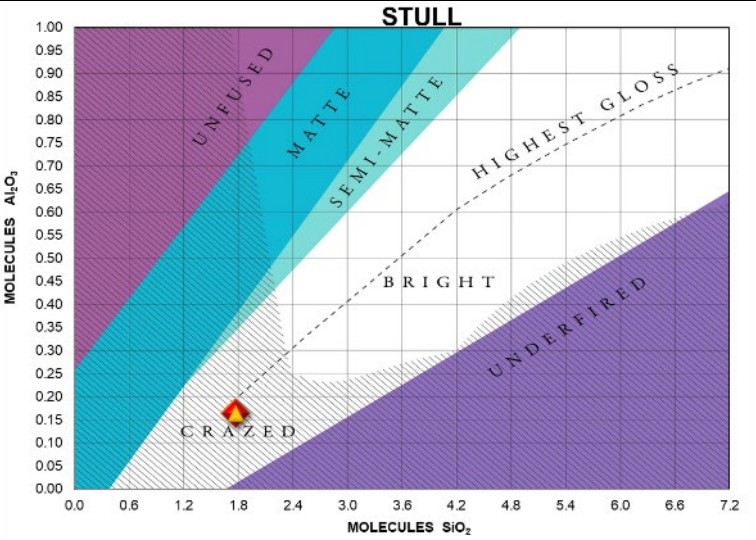
Reduction



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SiO ₂ :Al ₂ O ₃ Ratio 10.78 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.78	Collective "Al ₂ O ₃ " 0.16	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.48
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	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 0.01	ZrO ₂	P ₂ O ₅		MnO ₂ 0.07	CoO



Neph Sy	23.43
Dolomite	19.50
EPK	5.69
Flint	17.15
3134	28.45
Bentonite	1.93
Chrome Oxide	0.96
Manganese Dioxide	2.88
Water	120



Oxidation

1-3 Second Dip



2-3 Second Dips



Reduction



Ceramic
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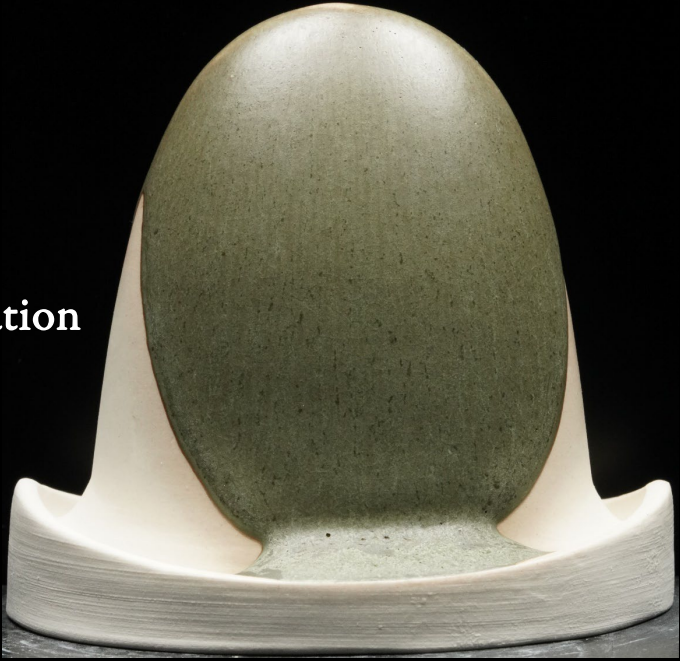
Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 8.50 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 1.91	Collective "Al ₂ O ₃ " 0.23	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.51
B ₂ O ₃ 0.20	Al ₂ O ₃ 0.18	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.05	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

Neph Sy	23.54
Dolomite	19.60
EPK	5.72
Flint	17.23
3134	28.59
Bentonite	1.94
Chrome Oxide	0.97
Nickel Carb (Green)	2.42
Water	120



Oxidation

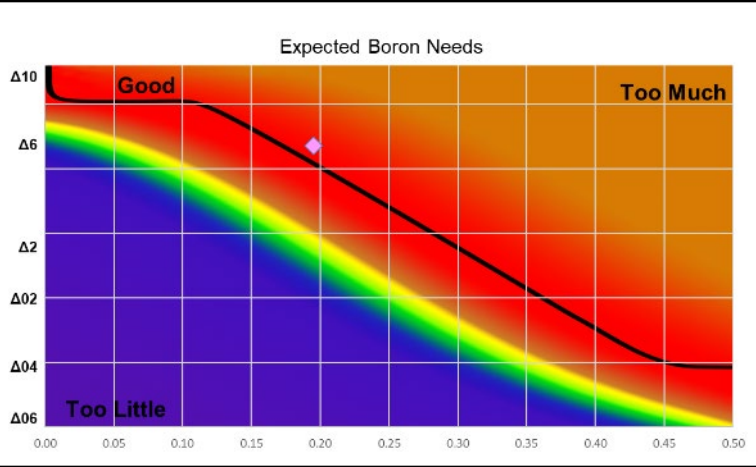
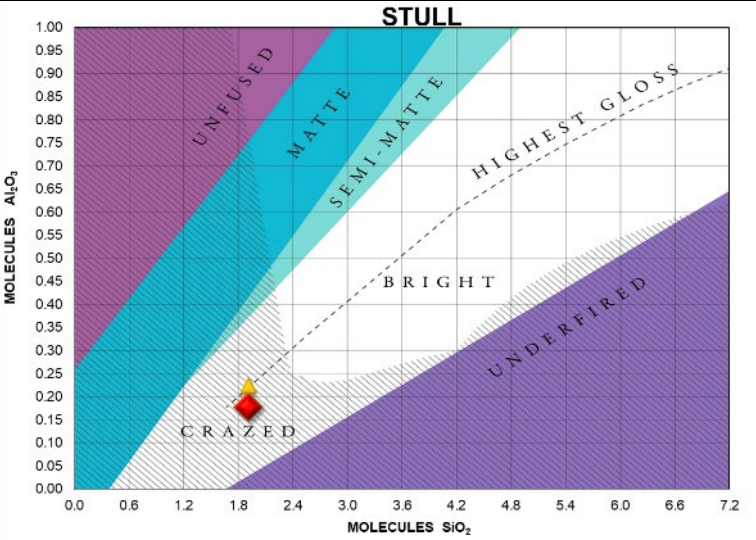


1-3 Second Dip

2-3 Second Dips



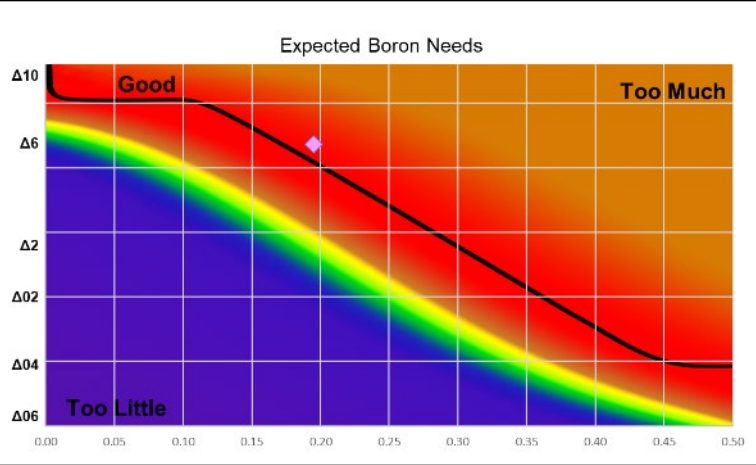
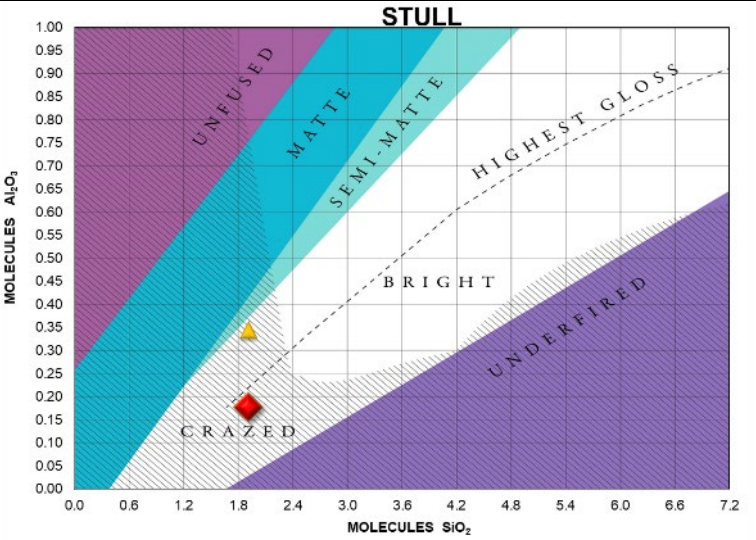
Reduction



Ceramic
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Birdie's Nest

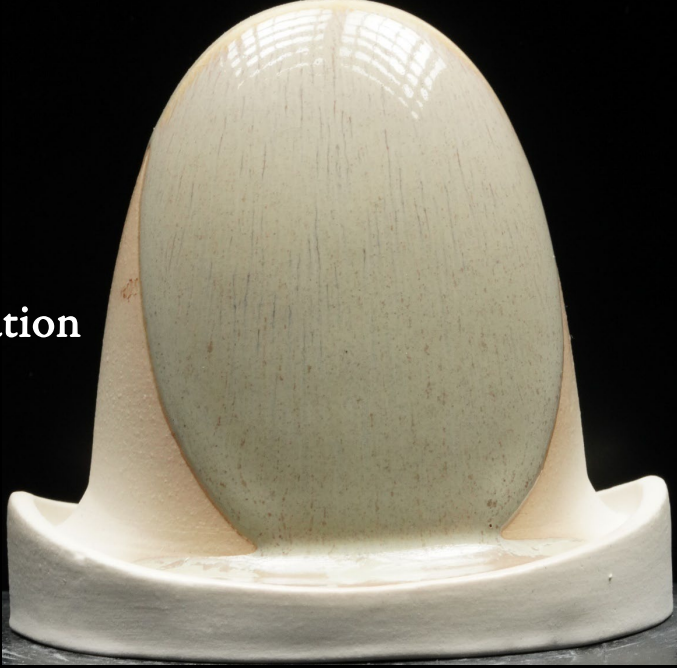
SiO ₂ :Al ₂ O ₃ Ratio 5.55 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 1.91	Collective "Al ₂ O ₃ " 0.35	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.51
B ₂ O ₃ 0.20	Al ₂ O ₃ 0.18	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.17	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Neph Sy	22.77
Dolomite	18.96
EPK	5.53
Flint	16.67
3134	27.65
Bentonite	1.88
Chrome Oxide	0.93
Titanium Dioxide	5.61
Water	120



Oxidation



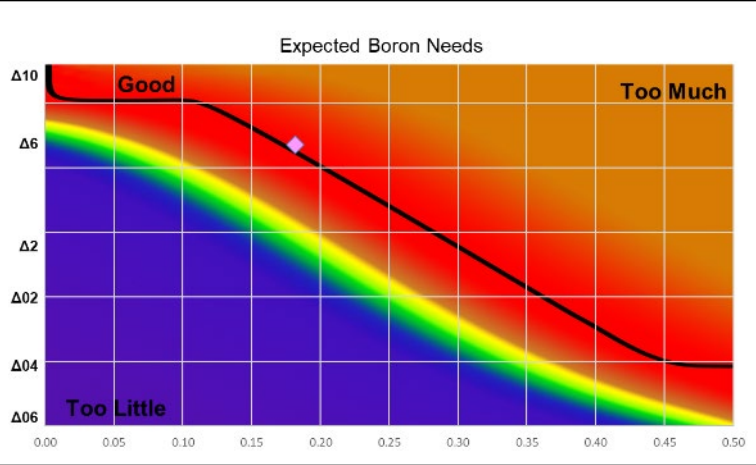
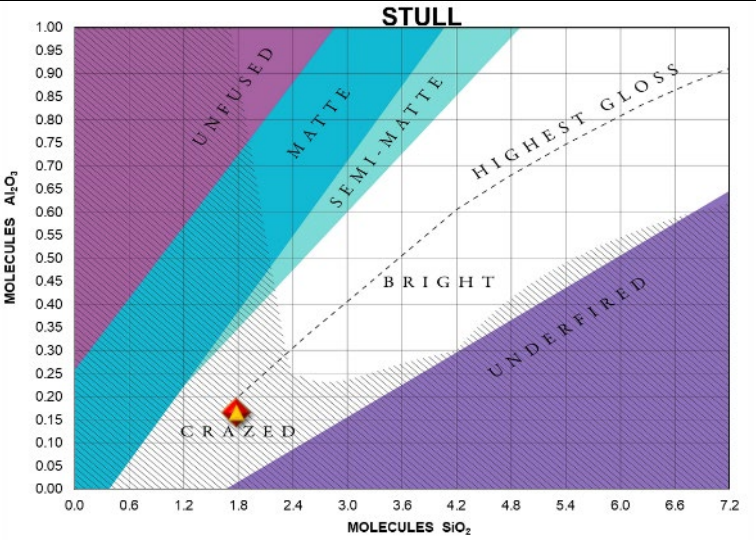
Reduction



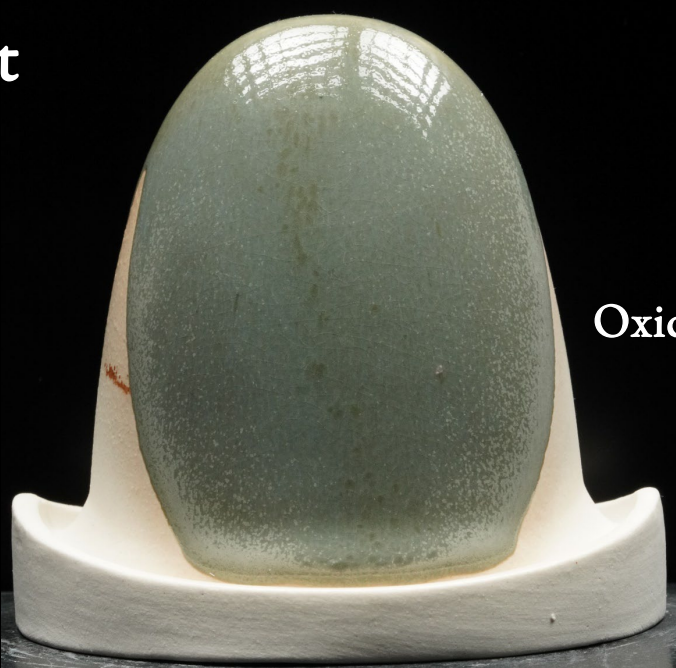
Ceramic
Materials
Workshop

Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.28		Alkaline Earths 0.72	
SiO ₂ 1.78	Collective "Al ₂ O ₃ " 0.17	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.48
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂ 0.07	ZnO	FeO 0.00
Cr ₂ O ₃ 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

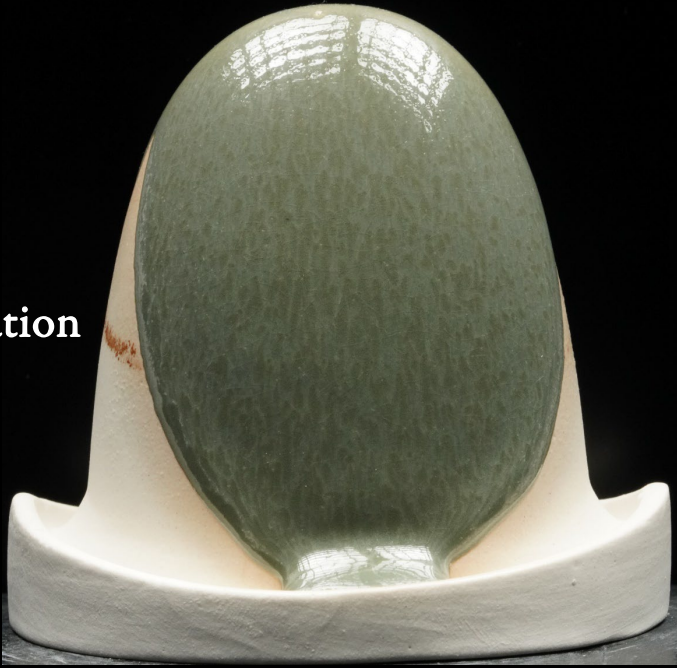


Neph Sy	22.98
Dolomite	19.14
EPK	5.58
Flint	16.83
3134	27.91
Bentonite	1.90
Chrome Oxide	0.94
Tin Oxide	4.72
Water	120



Oxidation

1-3 Second Dip



2-3 Second Dips

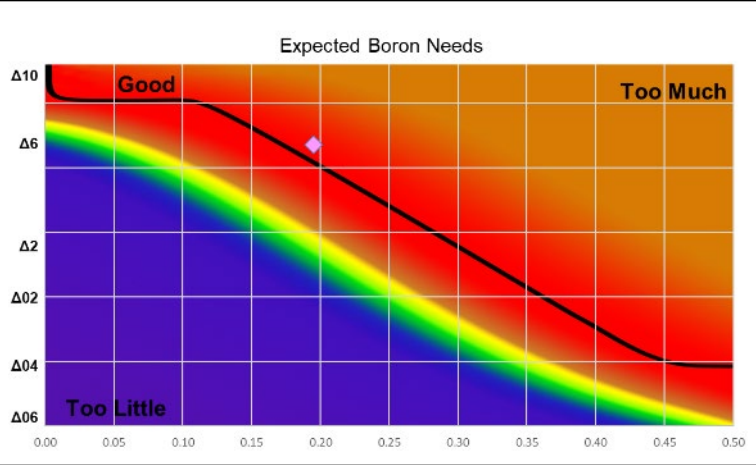
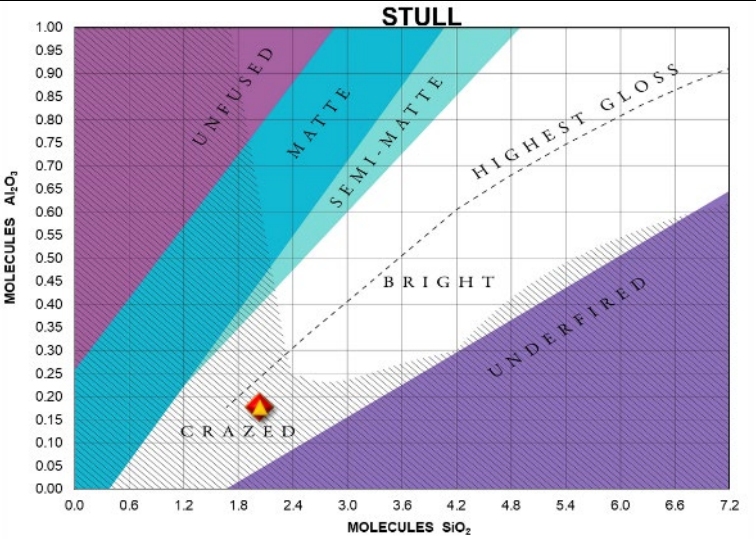


Reduction



Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 11.47 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.04	Collective "Al ₂ O ₃ " 0.18	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.51
B ₂ O ₃ 0.20	Al ₂ O ₃ 0.18	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 0.01	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Neph Sy	21.95
Dolomite	18.27
EPK	5.33
Flint	16.07
3134	26.65
Bentonite	1.81
Chrome Oxide	0.90
Ultrox (Zircopax)	9.01
Water	120



Oxidation



1-3 Second Dip

2-3 Second Dips



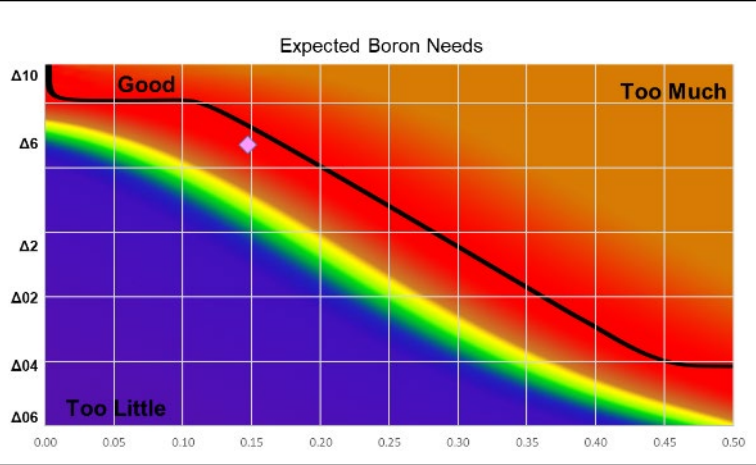
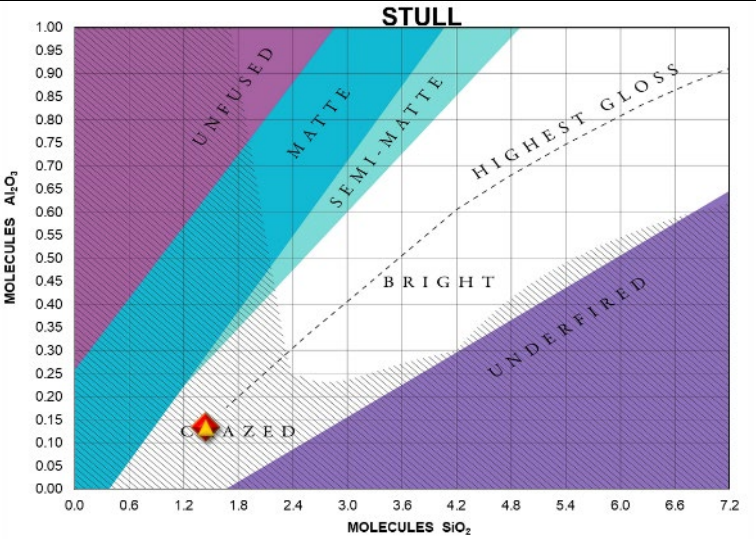
Reduction



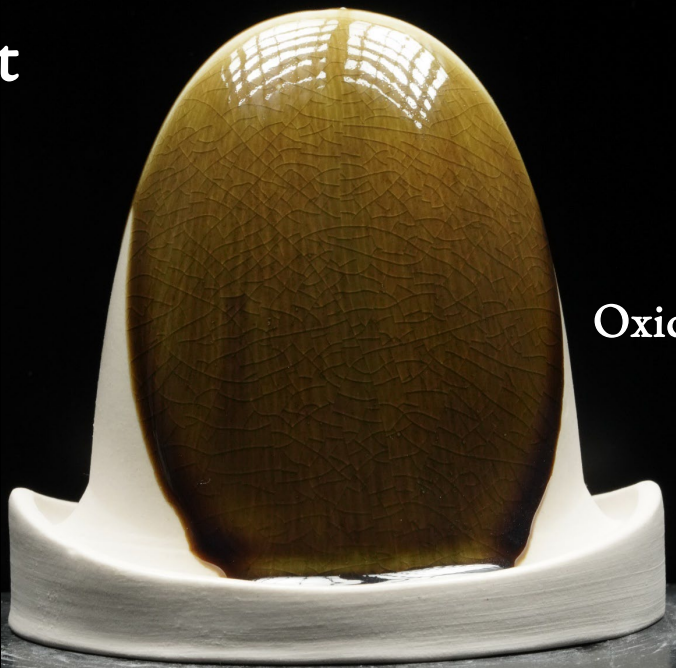
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Birdie's Nest

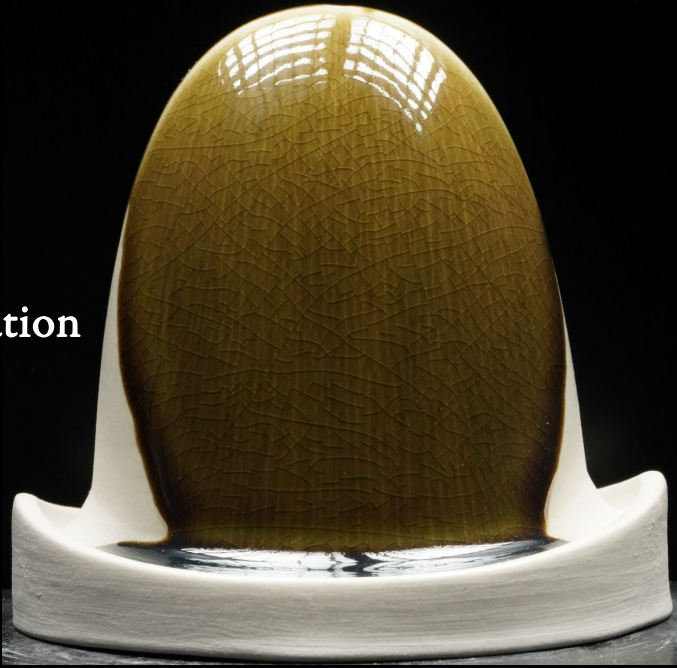
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.22		Alkaline Earths 0.78	
SiO ₂ 1.44	Collective "Al ₂ O ₃ " 0.13	Na ₂ O 0.15	K ₂ O 0.02	MgO 0.19	CaO 0.39
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.13	Li ₂ O	CuO 0.04	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.21
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



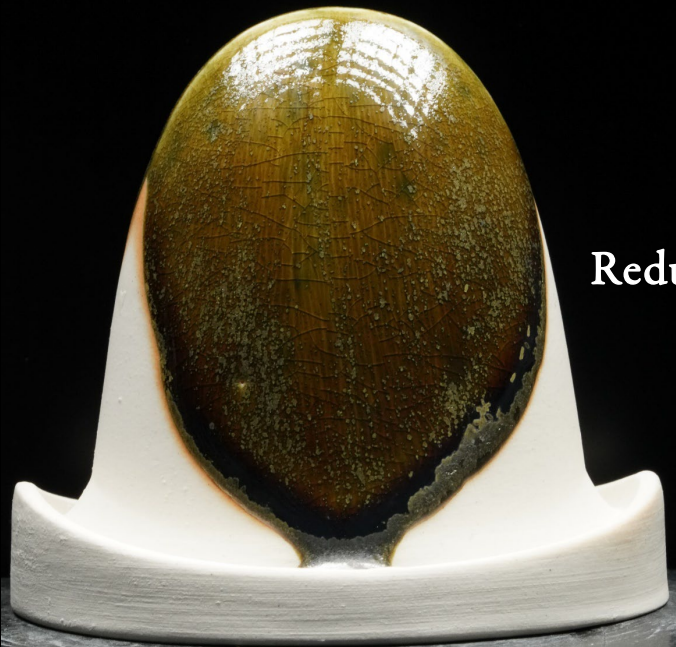
Neph Sy	22.35
Dolomite	18.61
EPK	5.43
Flint	16.36
3134	27.14
Bentonite	1.84
Copper Carbonate	2.75
Red Iron Oxide	5.50
Water	180



1-3 Second Dip



2-3 Second Dips



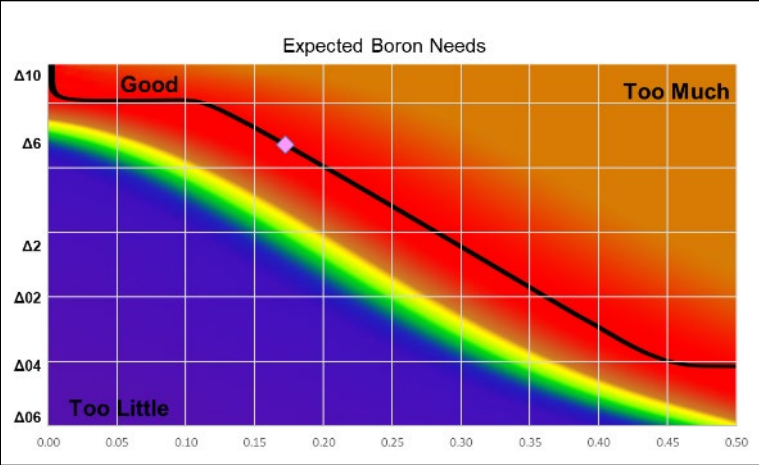
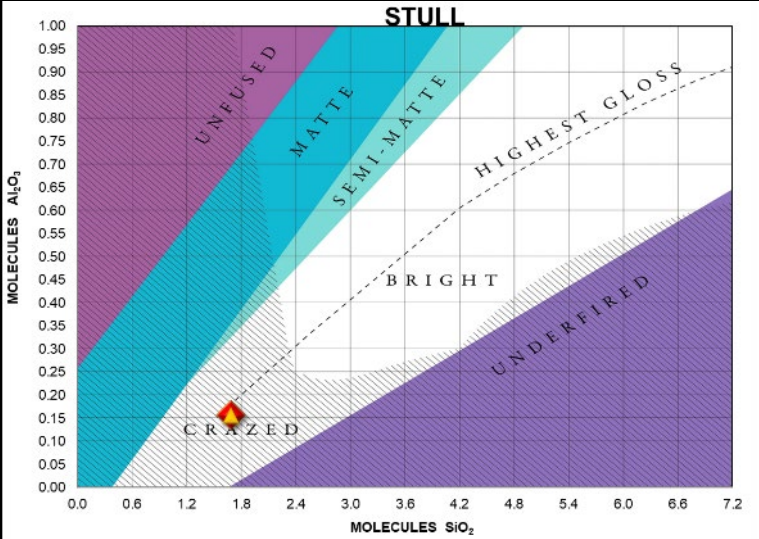
Reduction



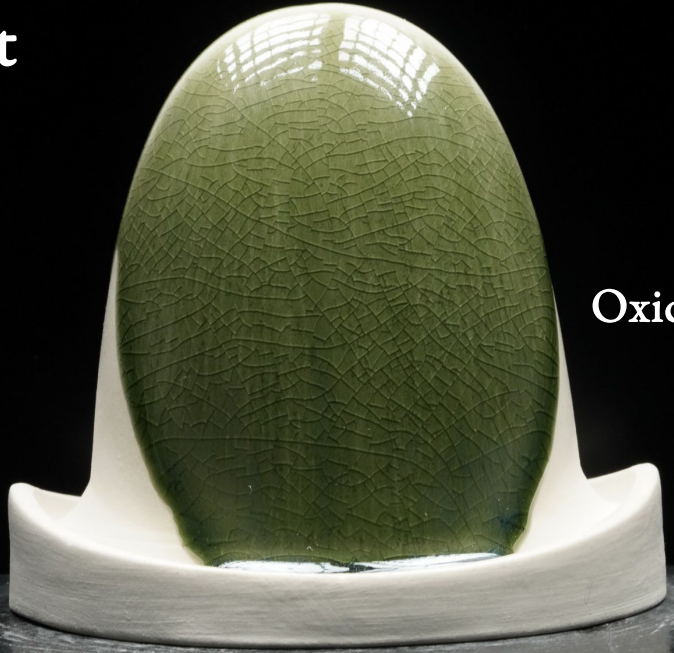
Ceramic
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Birdie's Nest

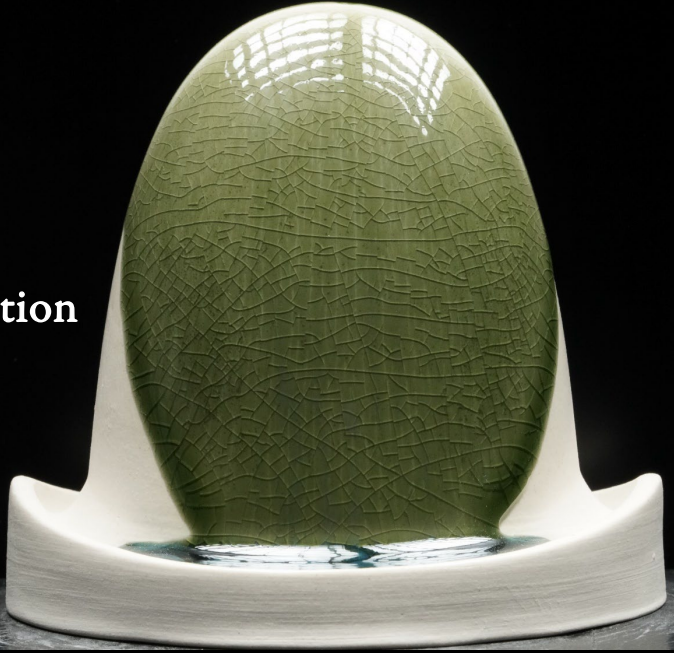
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.25		Alkaline Earths 0.75	
SiO ₂ 1.69	Collective "Al ₂ O ₃ " 0.16	Na ₂ O 0.18	K ₂ O 0.02	MgO 0.22	CaO 0.45
B ₂ O ₃ 0.17	Al ₂ O ₃ 0.16	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.07	CoO



Neph Sy	22.98
Dolomite	19.14
EPK	5.58
Flint	16.83
3134	27.91
Bentonite	1.90
Copper Carbonate	2.83
Manganese Dioxide	2.83
Water	180

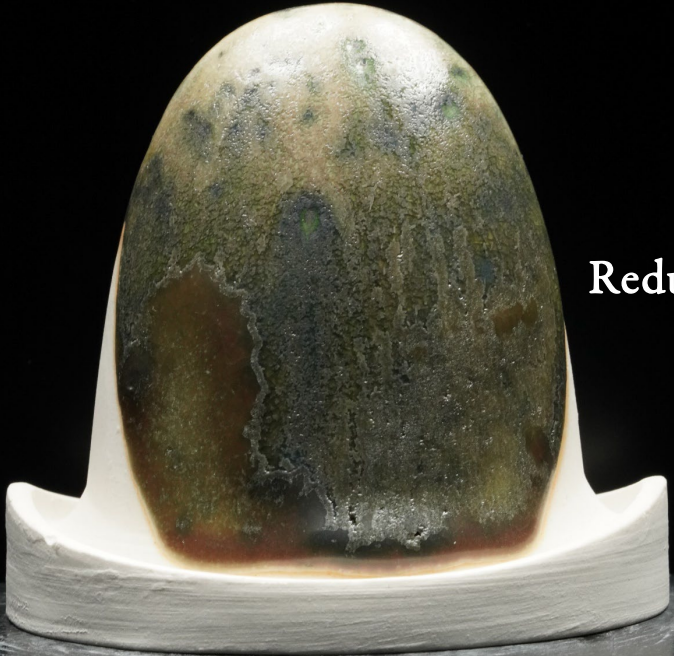


Oxidation



1-3 Second Dip

2-3 Second Dips



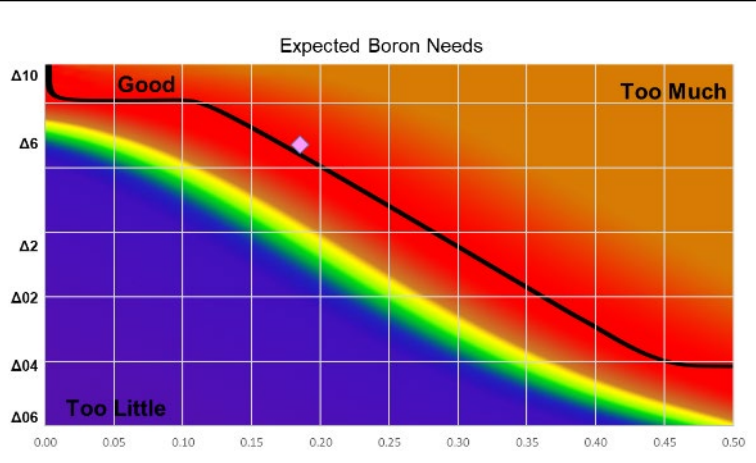
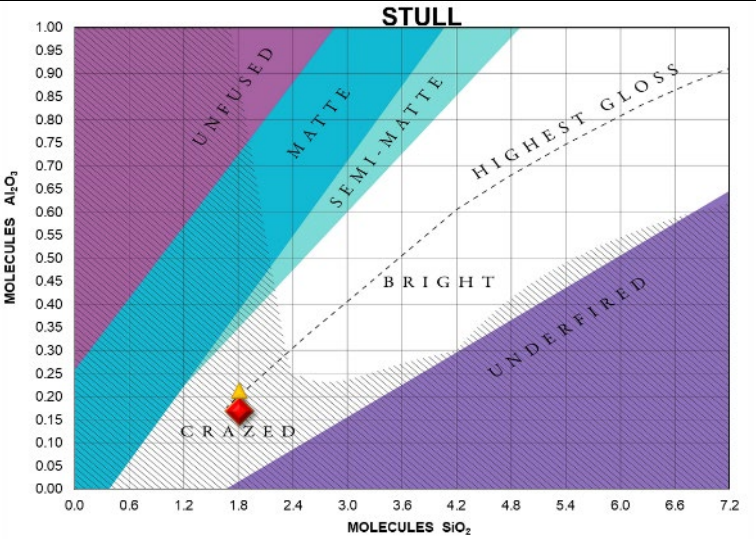
Reduction



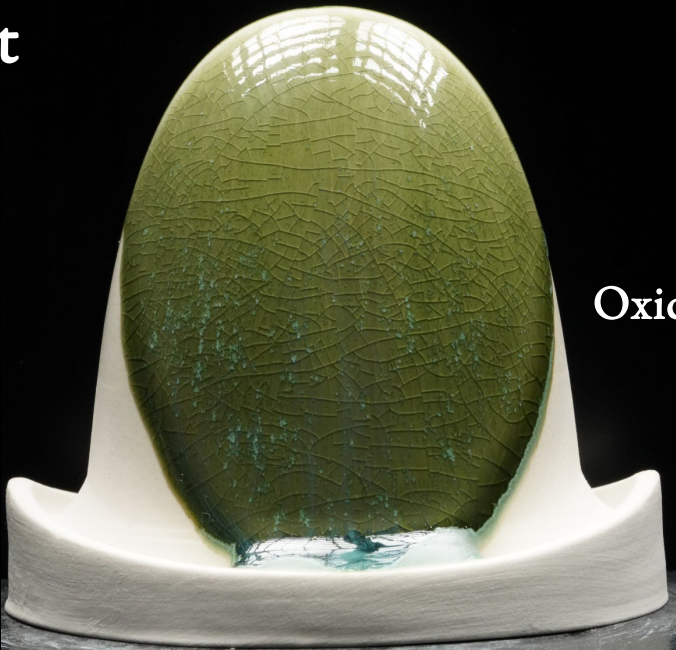
Ceramic
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Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 8.50 : 1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 1.81	Collective "Al ₂ O ₃ " 0.21	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.24	CaO 0.49
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.17	Li ₂ O 0.05	CuO 0.05	SrO	BaO
TiO ₂ 0.00	NiO 0.05	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

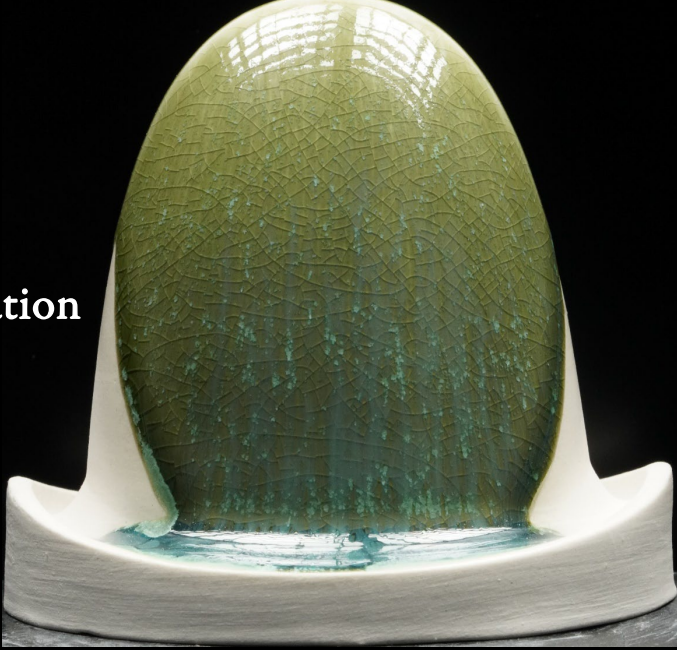


Neph Sy	23.09
Dolomite	19.23
EPK	5.61
Flint	16.91
3134	28.04
Bentonite	1.90
Copper Carbonate	2.84
Nickel Carb (Green)	2.37
Water	180



Oxidation

1-3 Second Dip



2-3 Second Dips



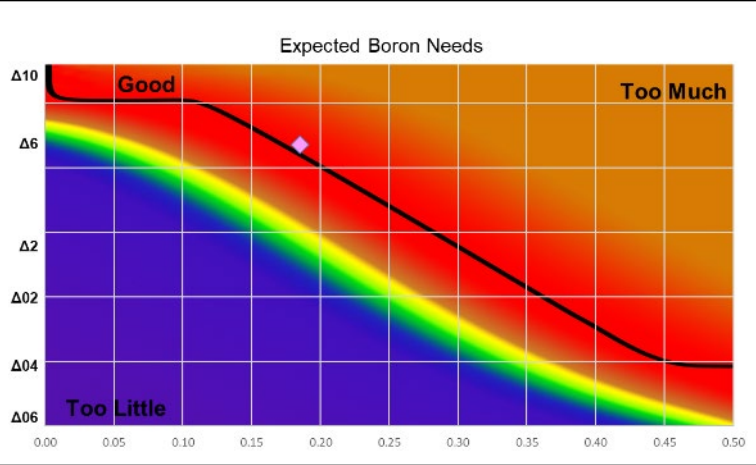
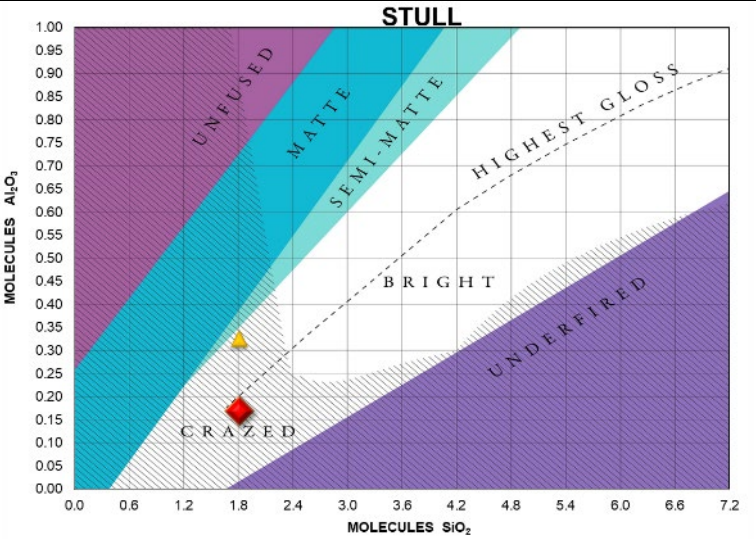
Reduction



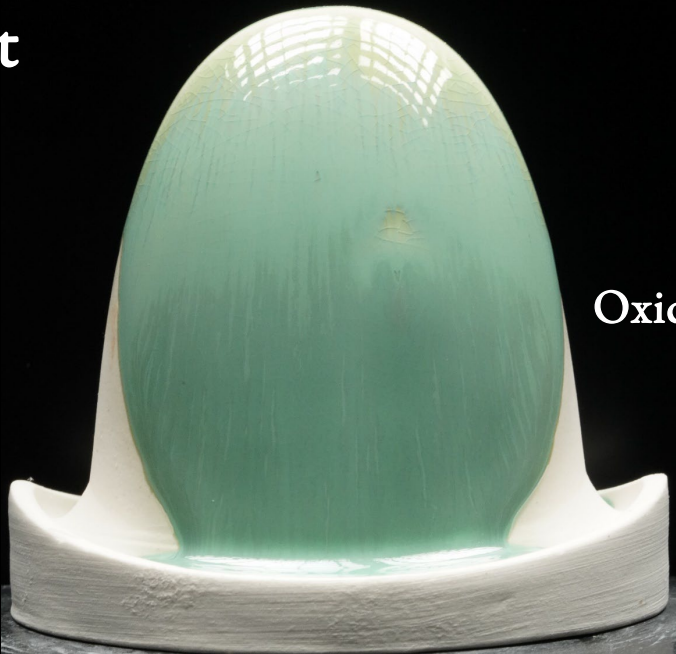
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SiO ₂ :Al ₂ O ₃ Ratio 5.55 : 1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 1.81	Collective "Al ₂ O ₃ " 0.33	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.24	CaO 0.49
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.17	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.16	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

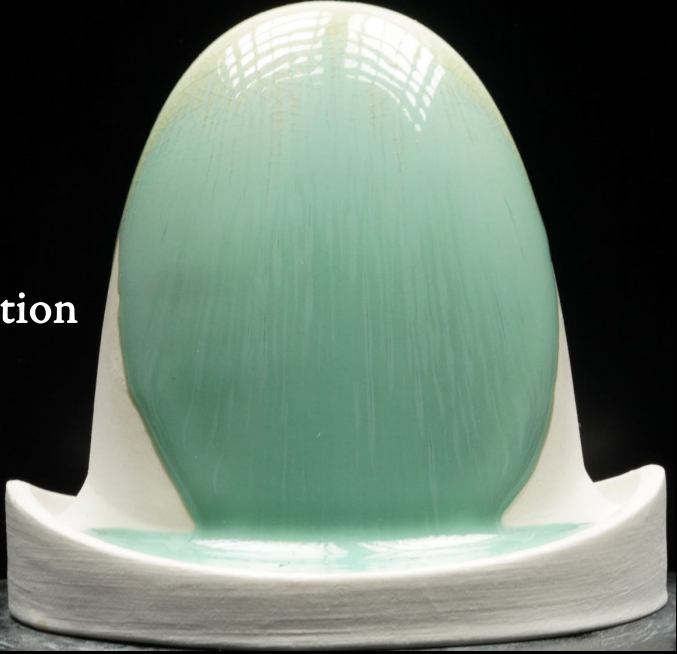


Neph Sy	22.35
Dolomite	18.61
EPK	5.43
Flint	16.36
3134	27.14
Bentonite	1.84
Copper Carbonate	2.75
Titanium Dioxide	5.50
Water	180

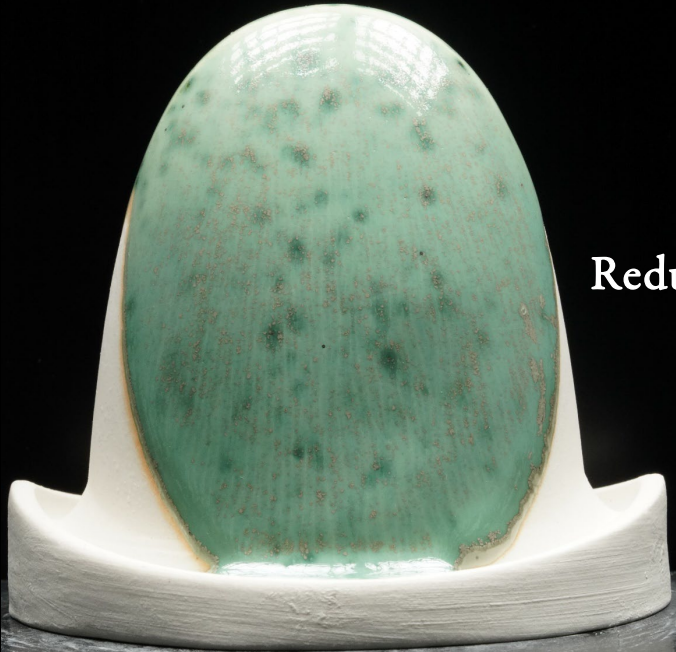


Oxidation

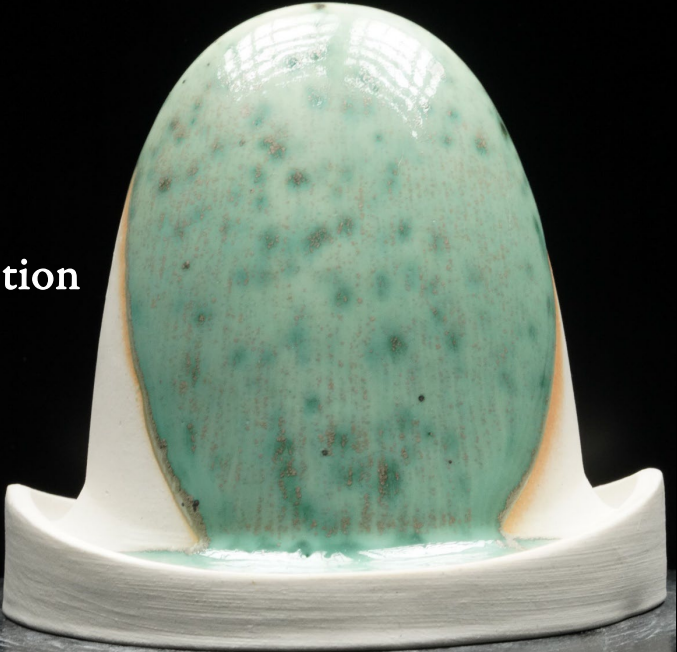
1-3 Second Dip



2-3 Second Dips



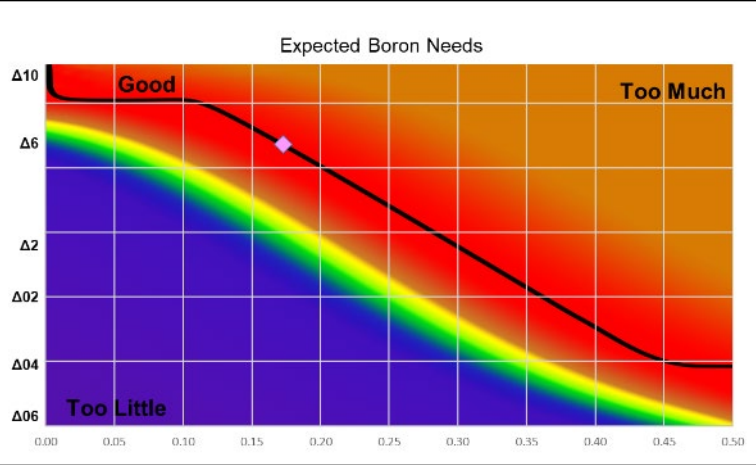
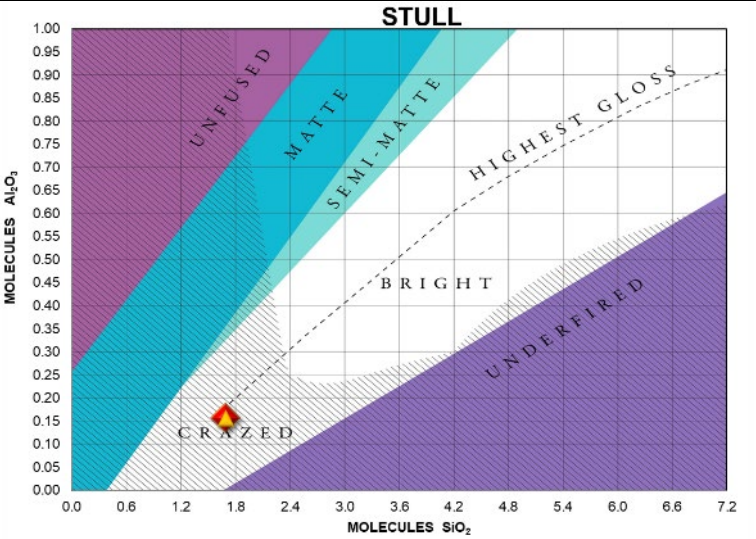
Reduction



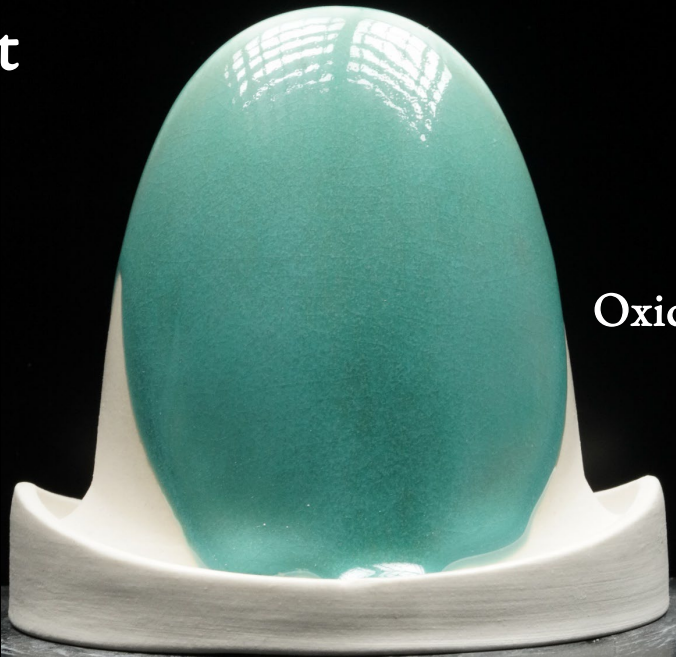
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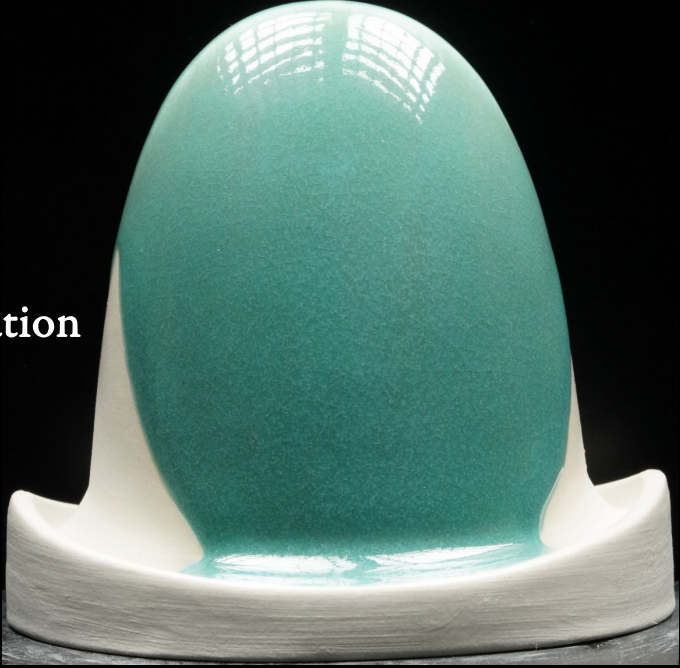
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.32		Alkaline Earths 0.68	
SiO ₂ 1.69	Collective "Al ₂ O ₃ " 0.16	Na ₂ O 0.18	K ₂ O 0.02	MgO 0.22	CaO 0.45
B ₂ O ₃ 0.17	Al ₂ O ₃ 0.16	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂ 0.07	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Neph Sy	22.56
Dolomite	18.78
EPK	5.48
Flint	16.52
3134	27.39
Bentonite	1.86
Copper Carbonate	2.78
Tin Oxide	4.63
Water	180



Oxidation

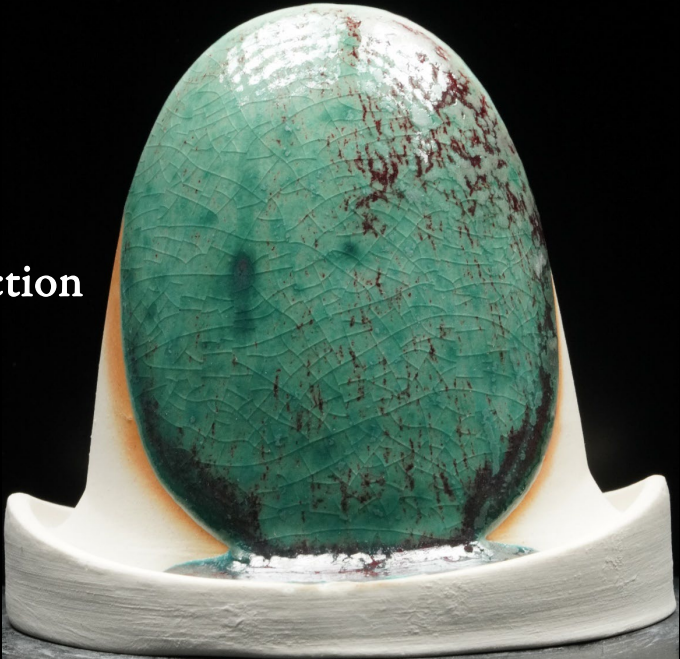


1-3 Second Dip

2-3 Second Dips



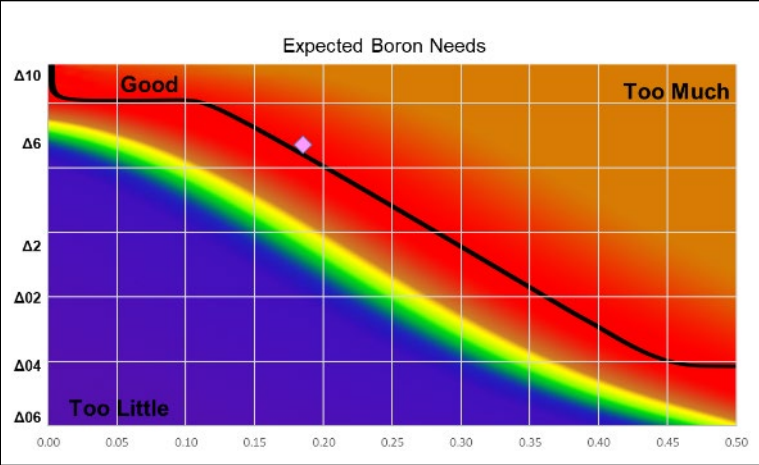
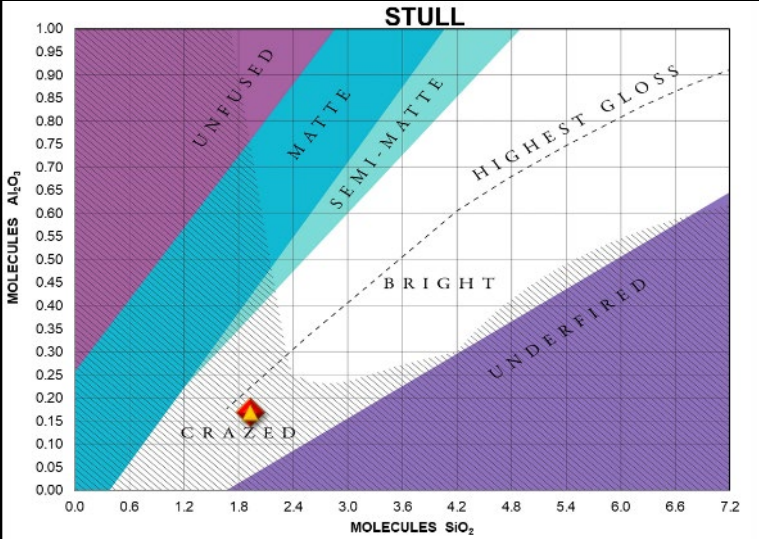
Reduction



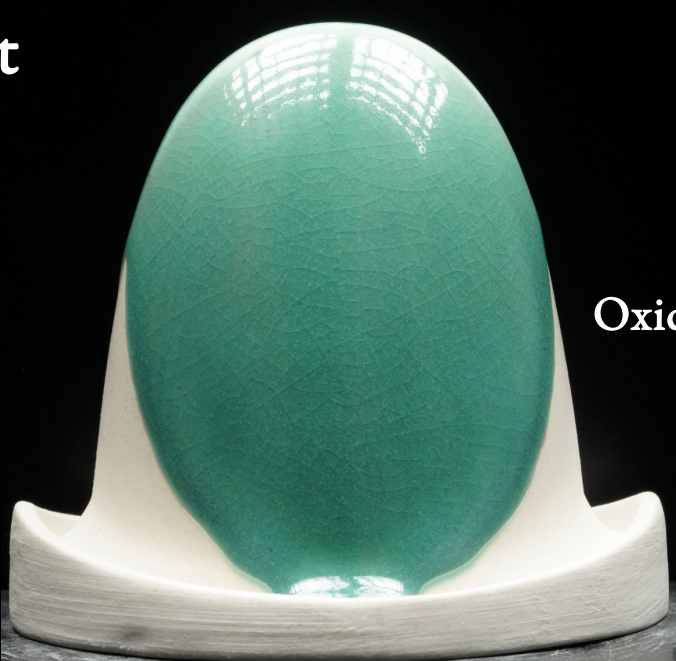
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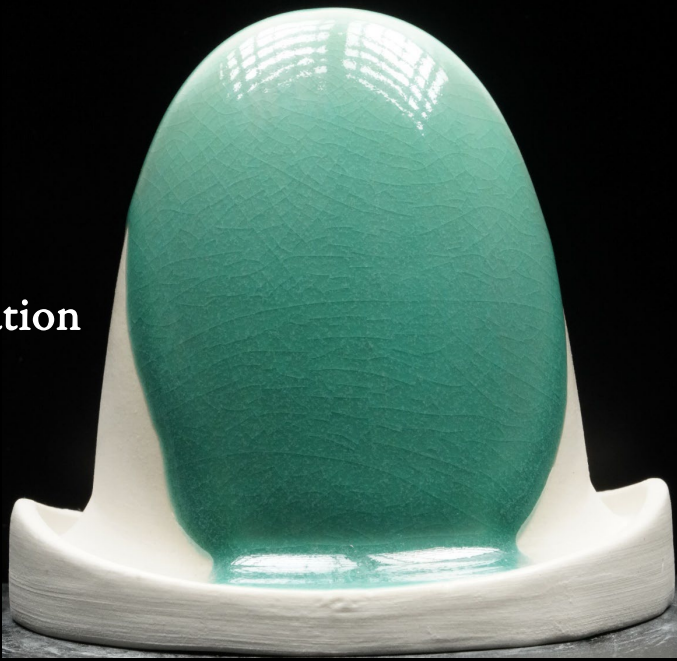
SiO ₂ :Al ₂ O ₃ Ratio 11.47 : 1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 1.93	Collective "Al ₂ O ₃ " 0.17	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.24	CaO 0.49
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.17	Li ₂ O	CuO 0.05	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



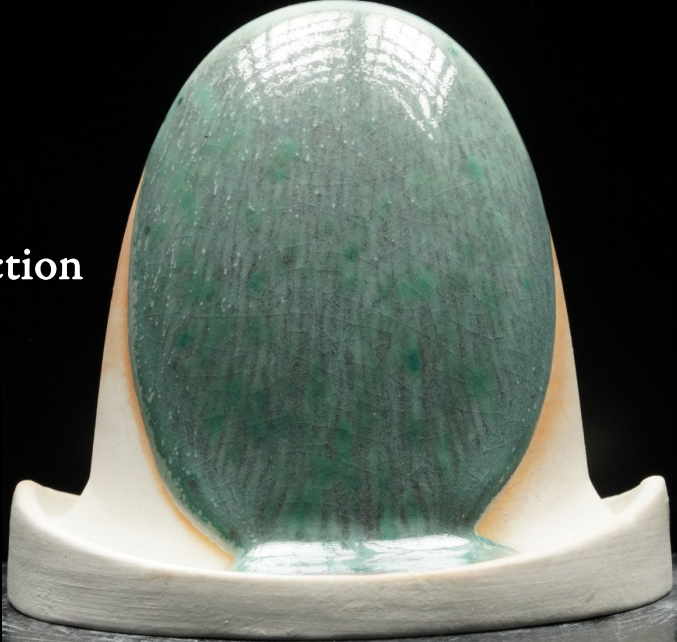
Neph Sy	21.56
Dolomite	17.95
EPK	5.24
Flint	15.79
3134	26.18
Bentonite	1.78
Copper Carbonate	2.65
Ultrox (Zircopax)	8.85
Water	180



1-3 Second Dip



2-3 Second Dips



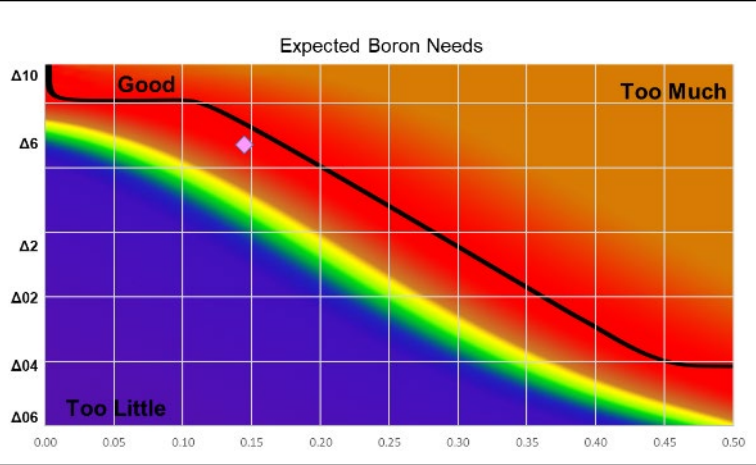
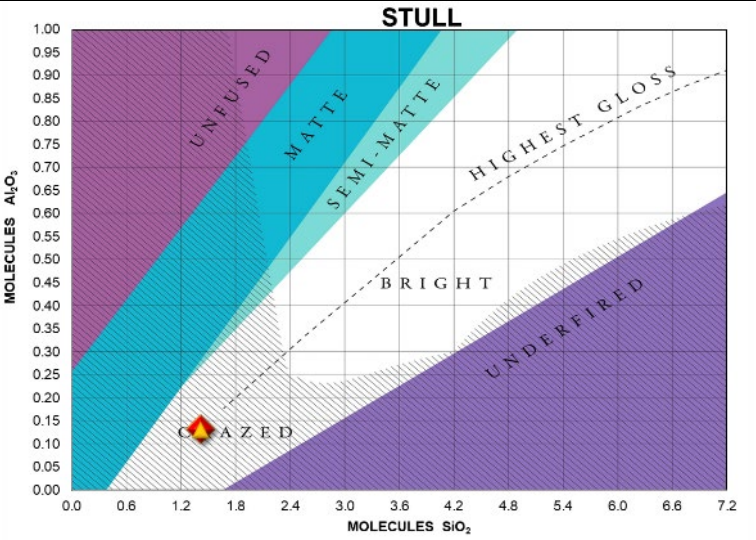
Reduction



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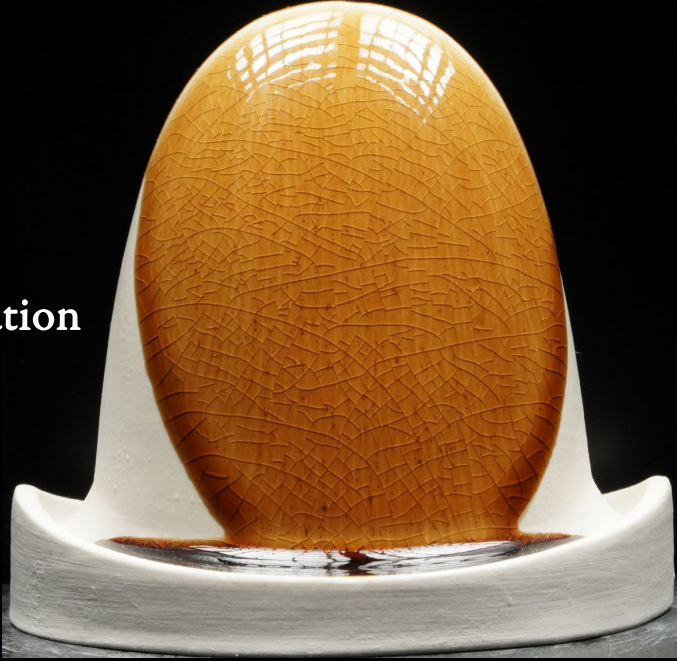
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.17		Alkaline Earths 0.83	
SiO ₂ 1.42	Collective "Al ₂ O ₃ " 0.13	Na ₂ O 0.15	K ₂ O 0.02	MgO 0.19	CaO 0.38
B ₂ O ₃ 0.14	Al ₂ O ₃ 0.13	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.20
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.06	CoO



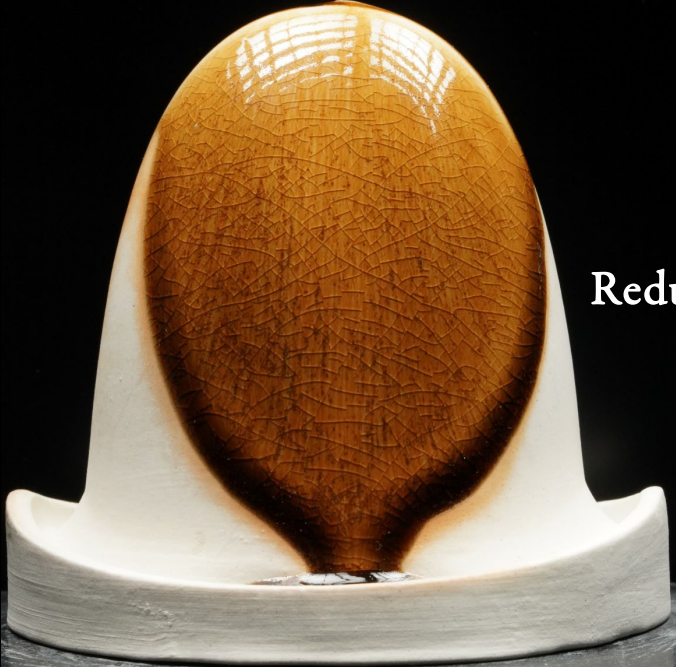
Neph Sy	22.35
Dolomite	18.61
EPK	5.43
Flint	16.36
3134	27.14
Bentonite	1.84
Red Iron Oxide	5.50
Manganese Dioxide	2.75
Water	180



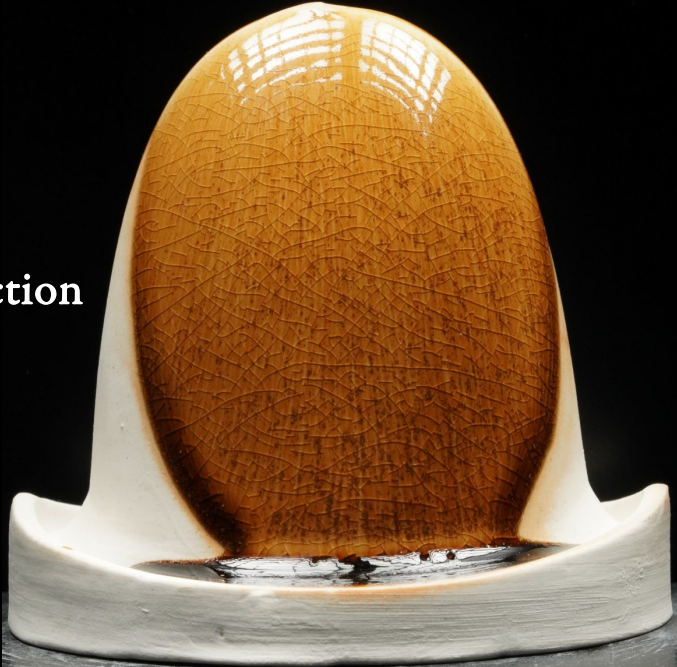
1-3 Second Dip



2-3 Second Dips



Reduction



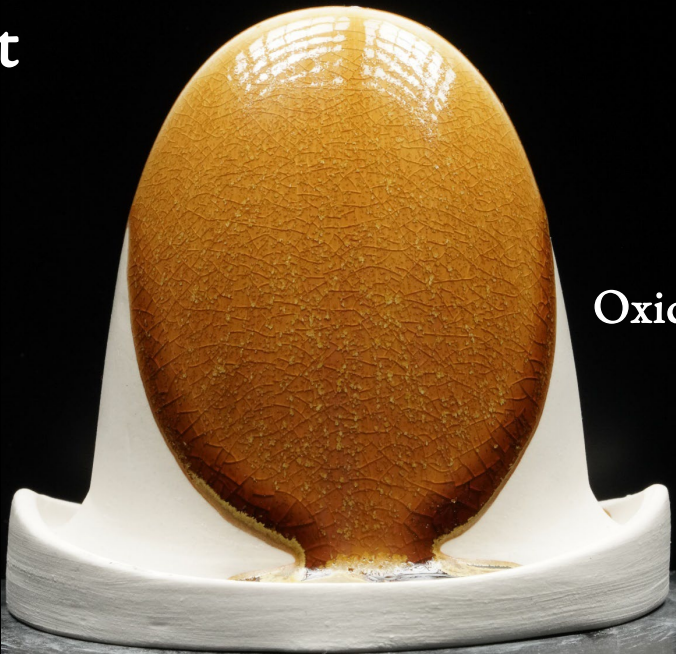
Oxidation



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Neph Sy	22.45
Dolomite	18.70
EPK	5.46
Flint	16.44
3134	27.27
Bentonite	1.85
Red Iron Oxide	5.53
Nickel Carb (Green)	2.30
Water	180



Oxidation

1-3 Second Dip



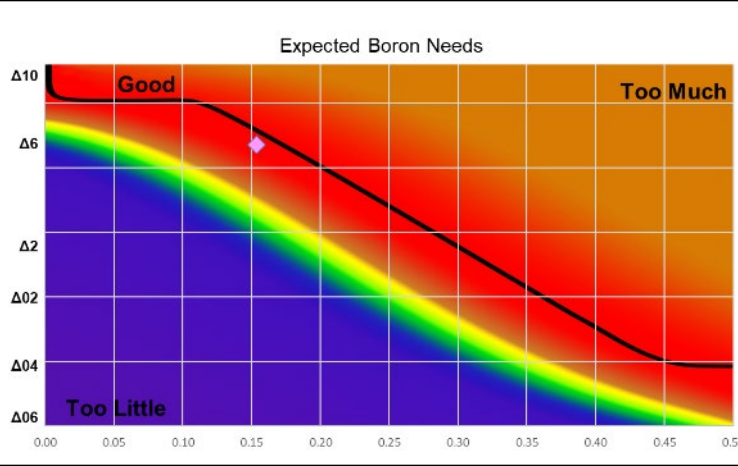
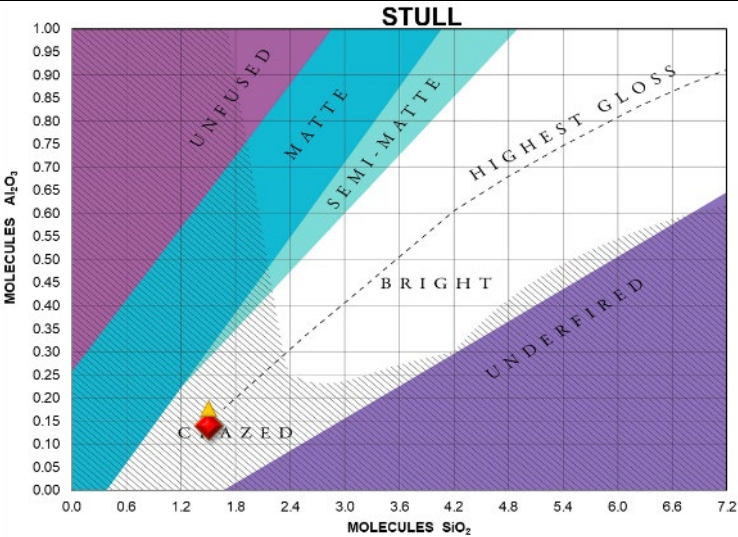
2-3 Second Dips



Reduction



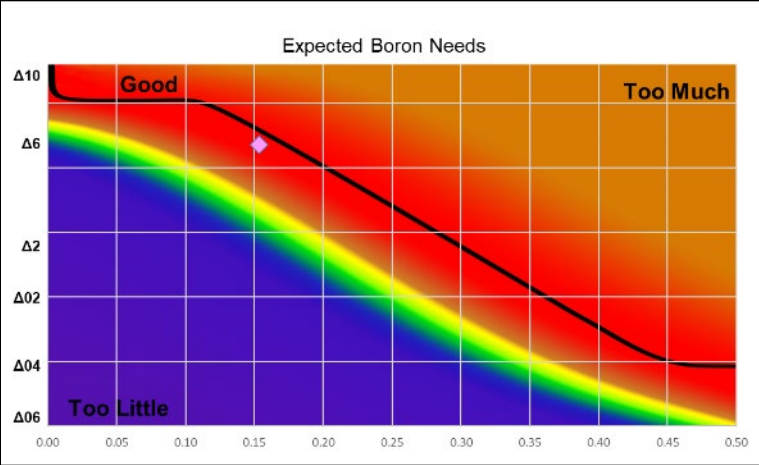
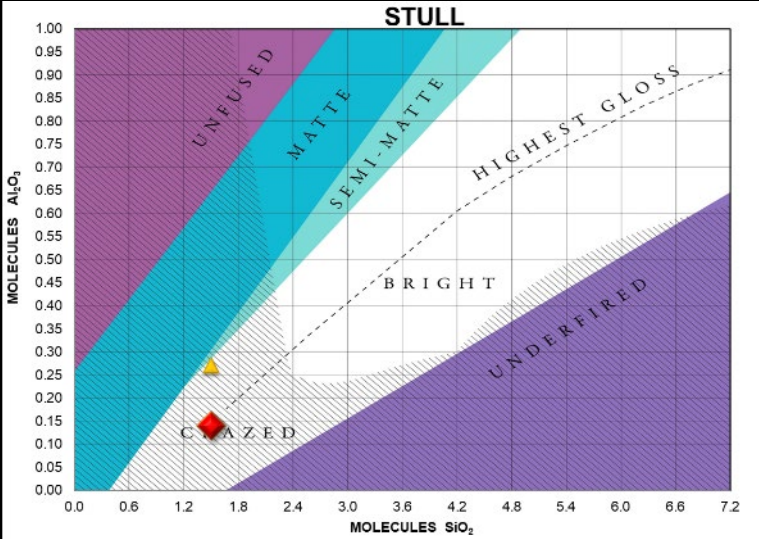
SiO ₂ :Al ₂ O ₃ Ratio 8.50 : 1		Alkali Metals 0.18		Alkaline Earths 0.82	
SiO ₂ 1.51	Collective "Al ₂ O ₃ " 0.18	Na ₂ O 0.16	K ₂ O 0.02	MgO 0.20	CaO 0.40
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.14	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.04	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.22
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



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SiO ₂ :Al ₂ O ₃ Ratio 5.55 : 1		Alkali Metals 0.18		Alkaline Earths 0.82	
SiO ₂ 1.51	Collective "Al ₂ O ₃ " 0.27	Na ₂ O 0.16	K ₂ O 0.02	MgO 0.20	CaO 0.40
B ₂ O ₃ 0.15	Al ₂ O ₃ 0.14	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.13	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.22
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



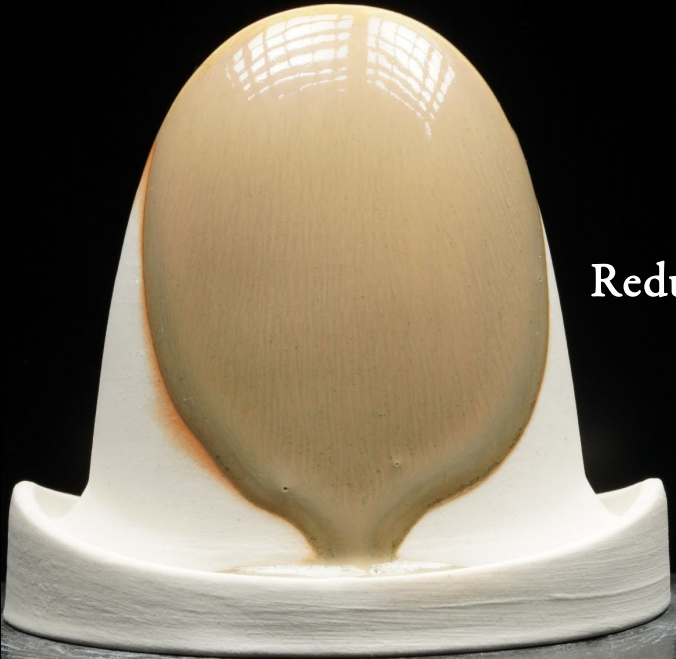
Neph Sy	21.75
Dolomite	18.11
EPK	5.29
Flint	15.93
3134	26.42
Bentonite	1.79
Red Iron Oxide	5.36
Titanium Dioxide	5.36
Water	180



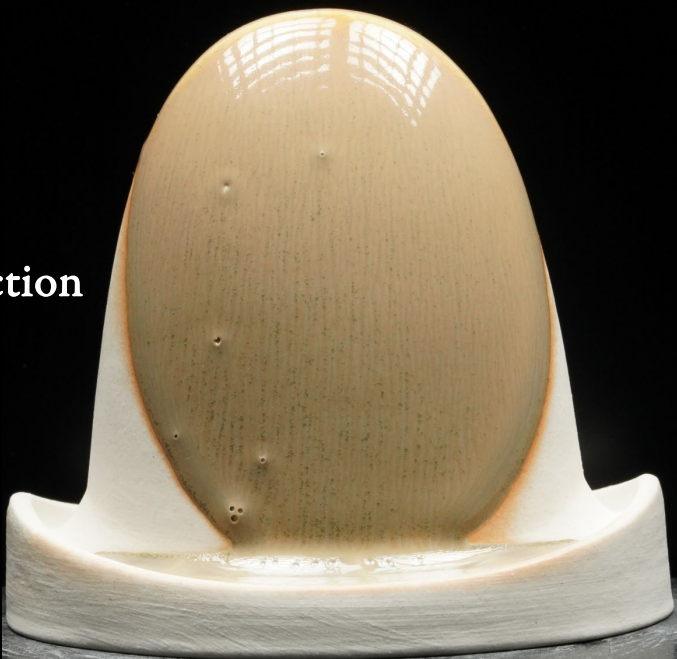
1-3 Second Dip



2-3 Second Dips

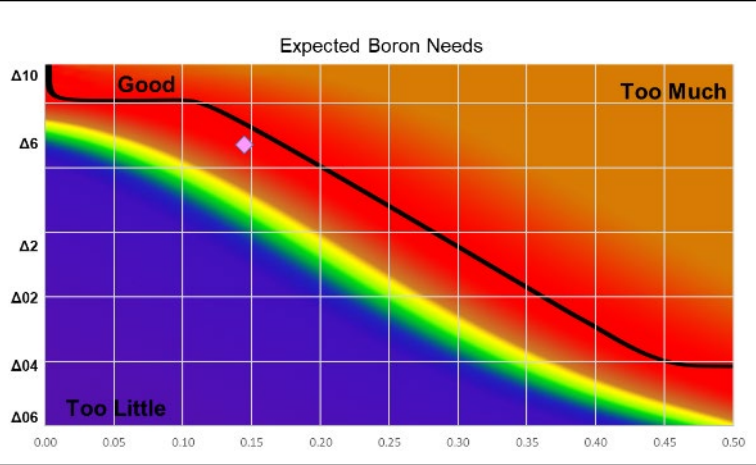
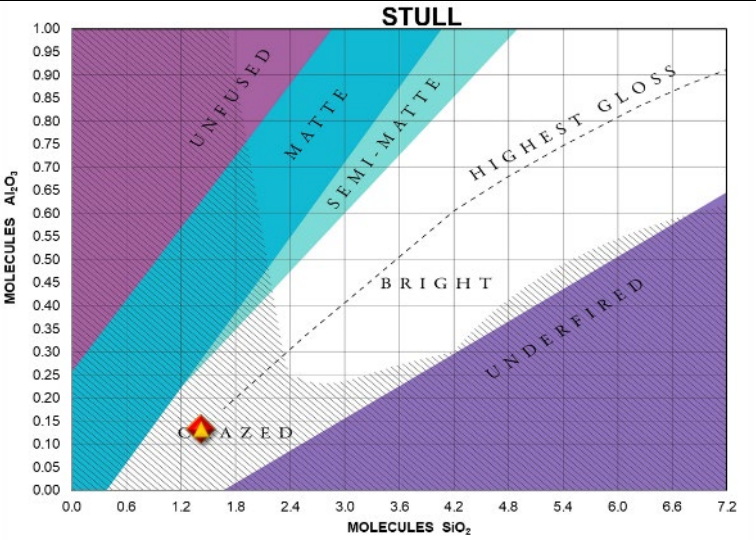


Reduction



Birdie's Nest

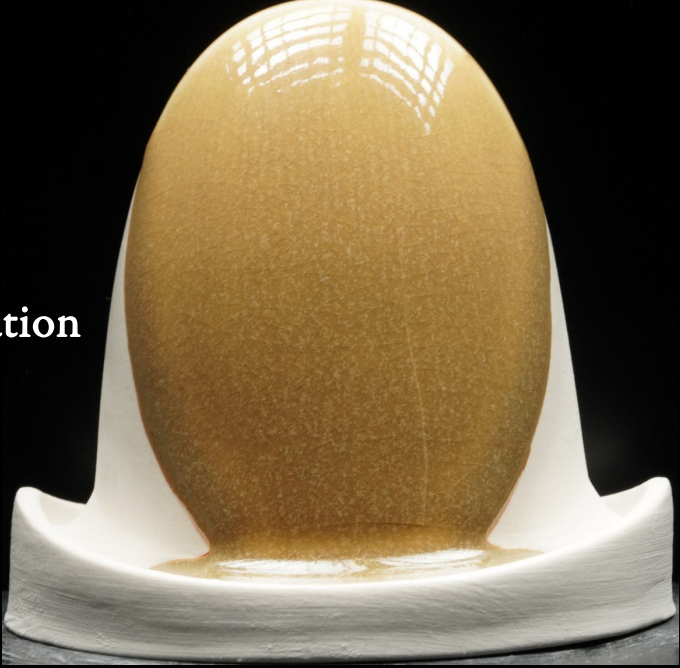
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 1.42	Collective "Al ₂ O ₃ " 0.13	Na ₂ O 0.15	K ₂ O 0.02	MgO 0.19	CaO 0.38
B ₂ O ₃ 0.14	Al ₂ O ₃ 0.13	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂ 0.06	ZnO	FeO 0.20
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Neph Sy	21.95
Dolomite	18.27
EPK	5.33
Flint	16.07
3134	26.65
Bentonite	1.81
Red Iron Oxide	5.41
Tin Oxide	4.50
Water	180



1-3 Second Dip



2-3 Second Dips



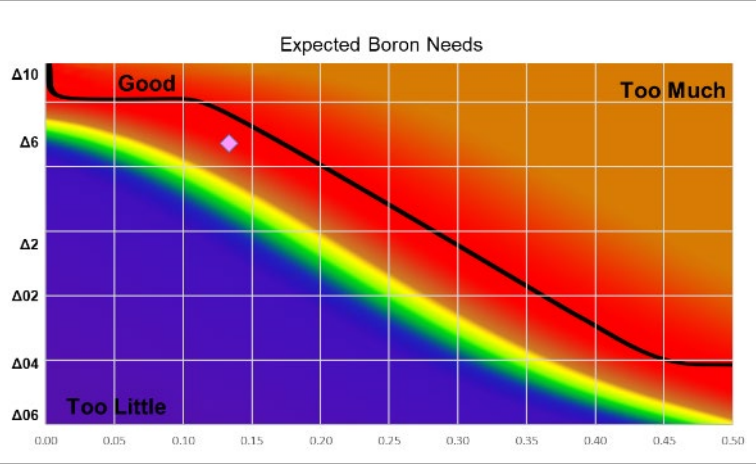
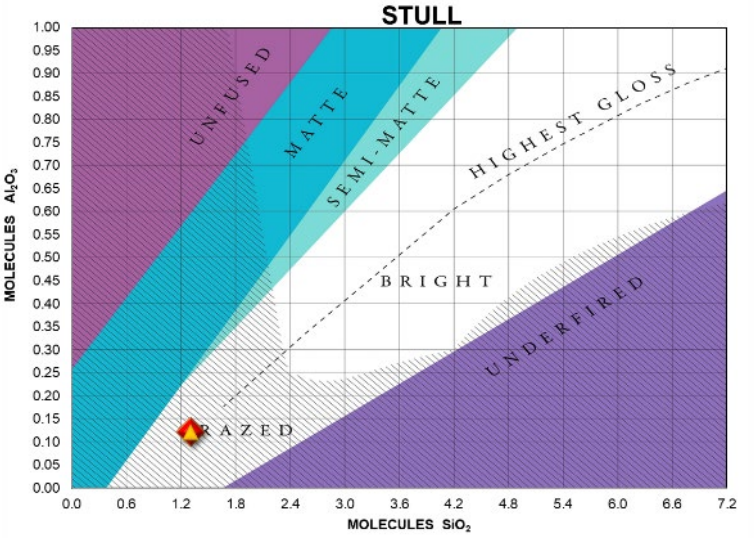
Reduction



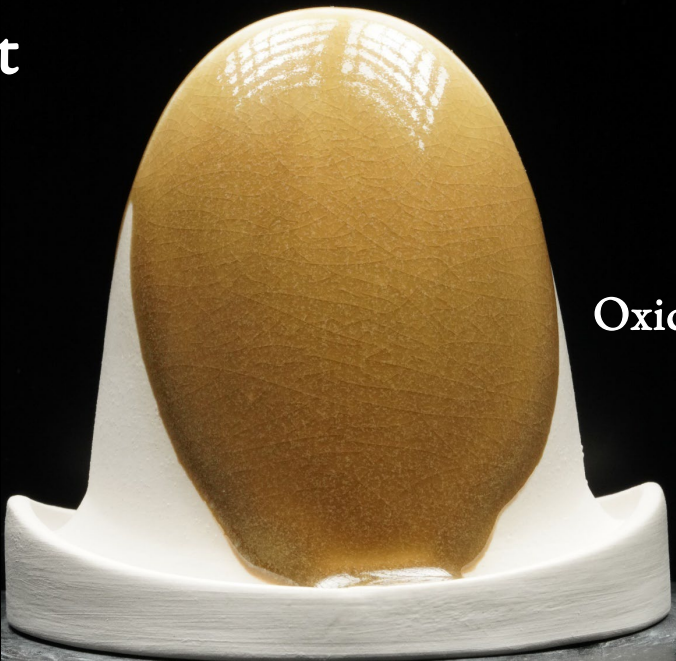
Ceramic
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Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.16		Alkaline Earths 0.84	
SiO ₂ 1.31	Collective "Al ₂ O ₃ " 0.12	Na ₂ O 0.14	K ₂ O 0.02	MgO 0.17	CaO 0.35
B ₂ O ₃ 0.13	Al ₂ O ₃ 0.12	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.19
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO 0.13

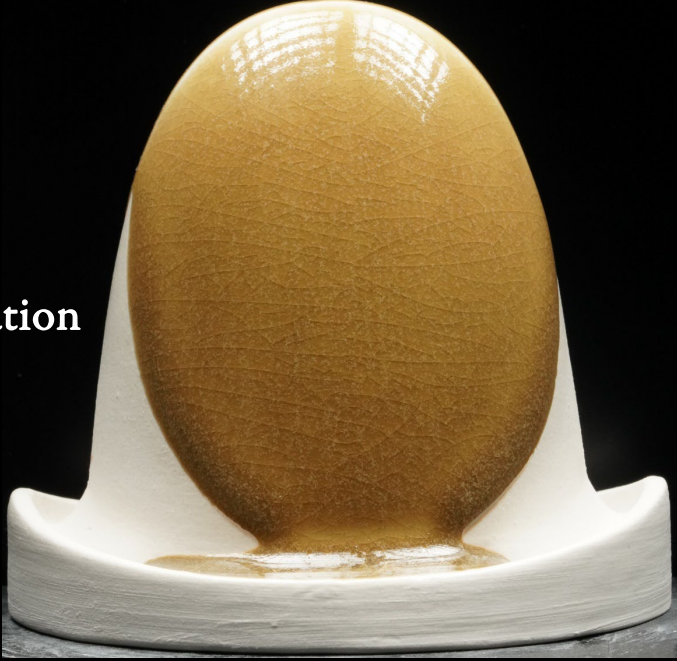


Neph Sy	21.00
Dolomite	17.49
EPK	5.10
Flint	15.38
3134	25.51
Bentonite	1.73
Red Iron Oxide	5.17
Zircopax	8.62
Water	180



Oxidation

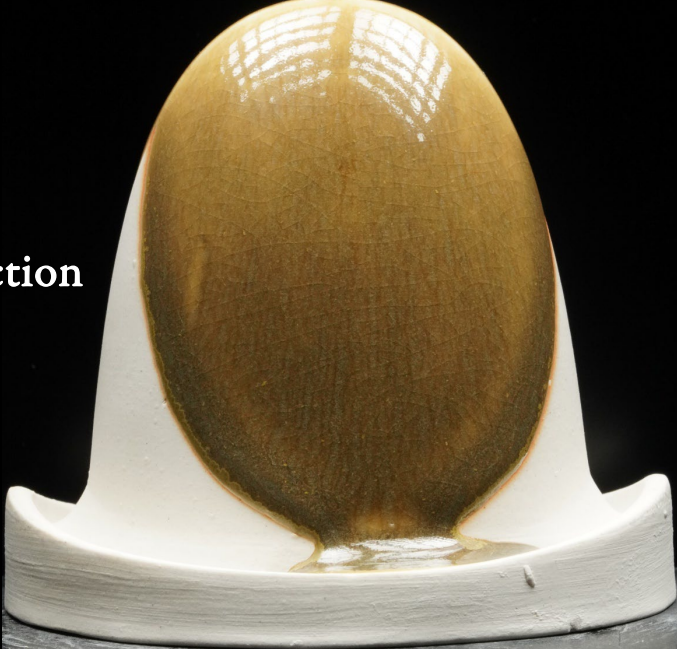
1-3 Second Dip



2-3 Second Dips



Reduction

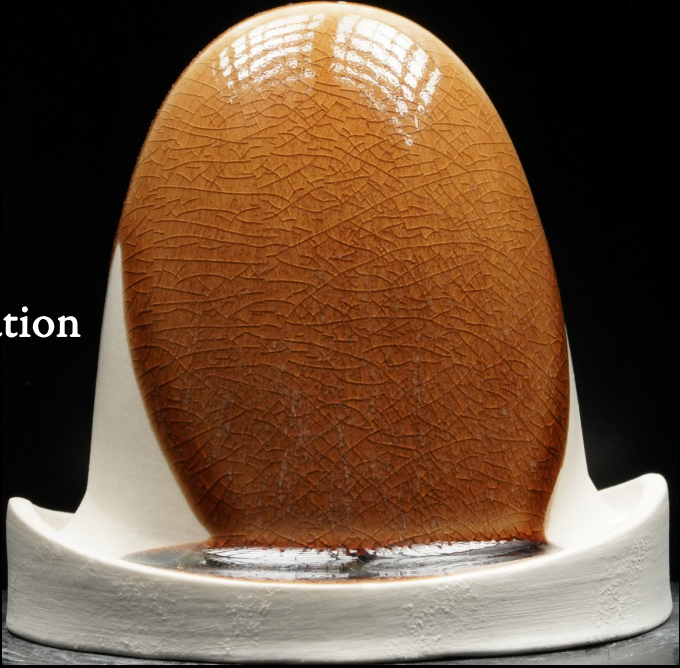


Birdie's Nest

Neph Sy	23.09
Dolomite	19.23
EPK	5.61
Flint	16.91
3134	28.04
Bentonite	1.90
Manganese Dioxide	2.84
Nickel Carb (Green)	2.37
Water	180



1-3 Second Dip



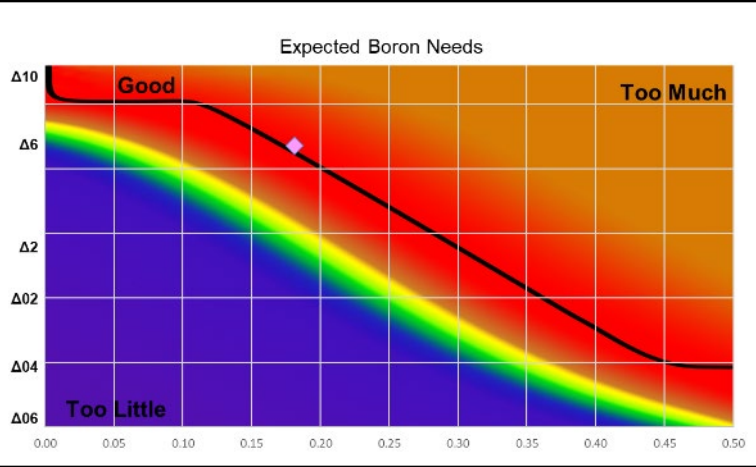
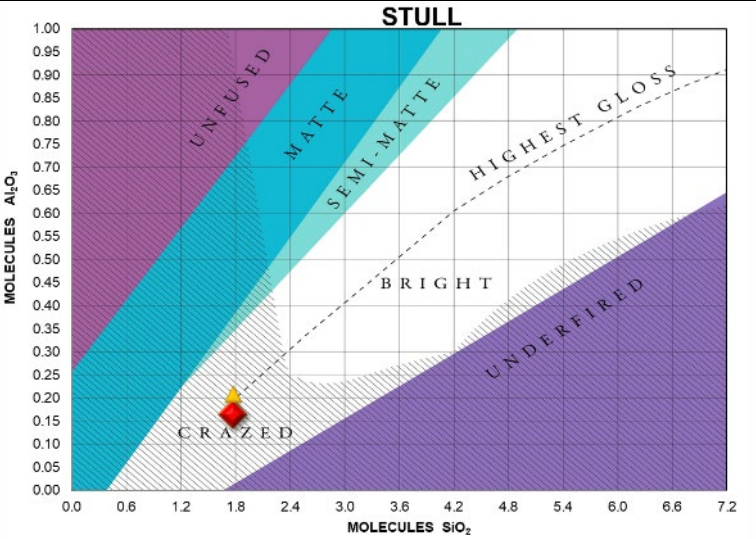
2-3 Second Dips



Reduction



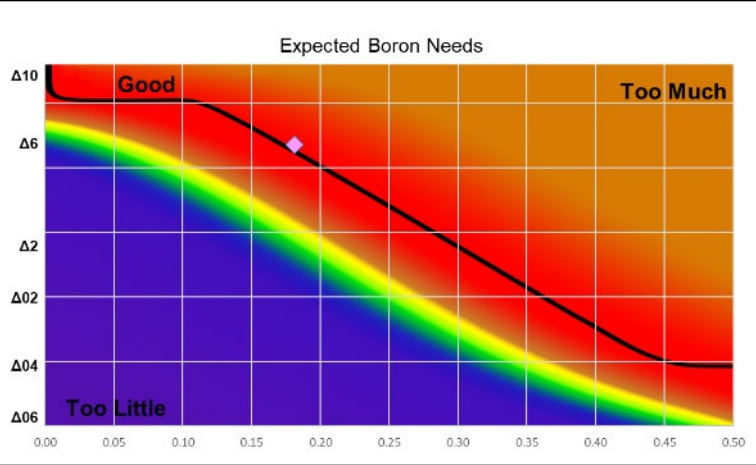
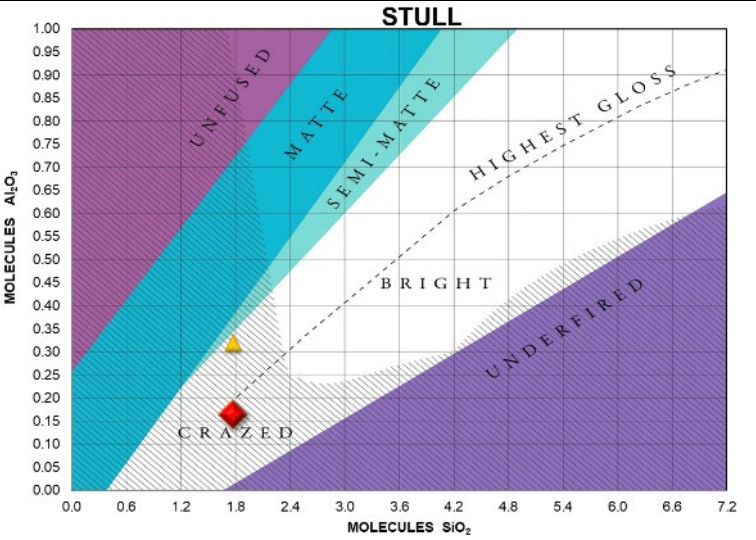
SiO ₂ :Al ₂ O ₃ Ratio 8.50 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.78	Collective "Al ₂ O ₃ " 0.21	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.48
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.04	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.07	CoO



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SiO ₂ :Al ₂ O ₃ Ratio 5.55 : 1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.78	Collective "Al ₂ O ₃ " 0.32	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.48
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.16	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.07	CoO



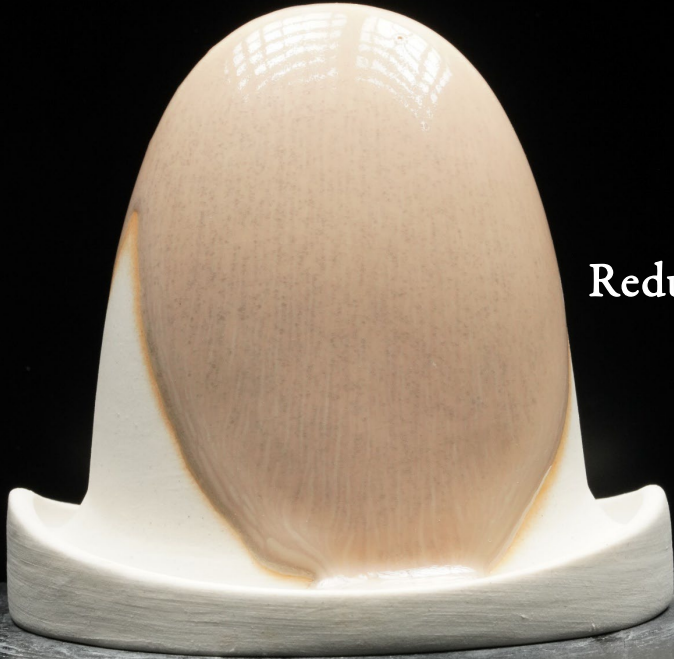
Neph Sy	22.35
Dolomite	18.61
EPK	5.43
Flint	16.36
3134	27.14
Bentonite	1.84
Manganese Dioxide	2.75
Titanium Dioxide	5.50
Water	180



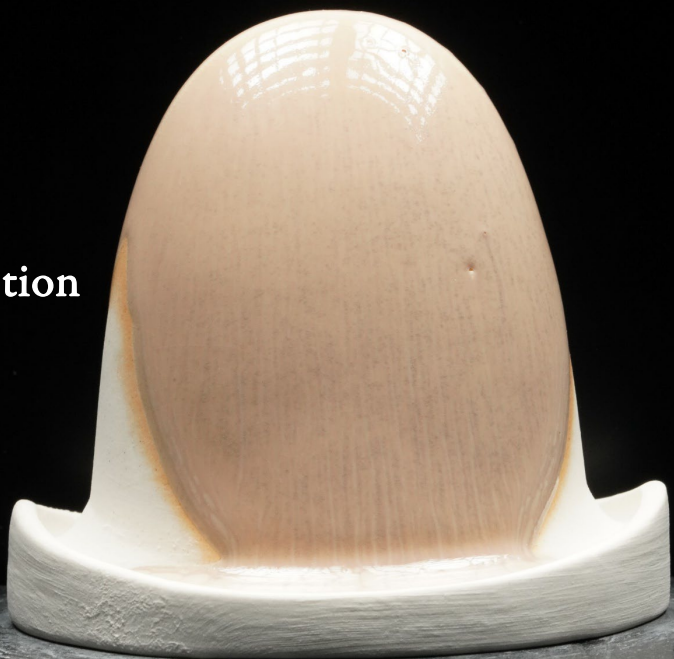
1-3 Second Dip



2-3 Second Dips



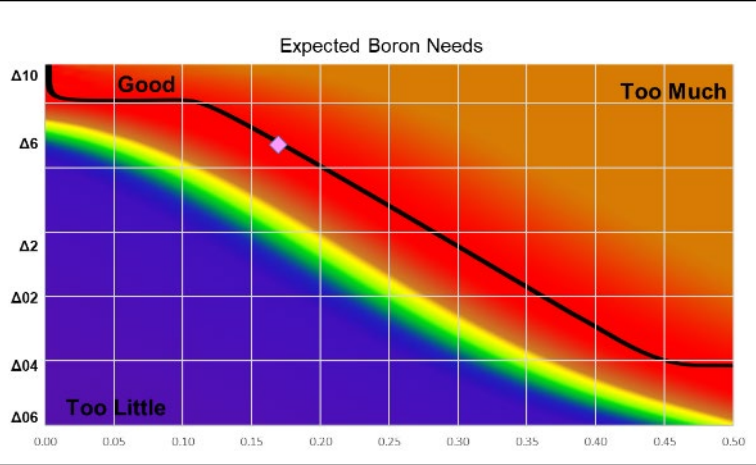
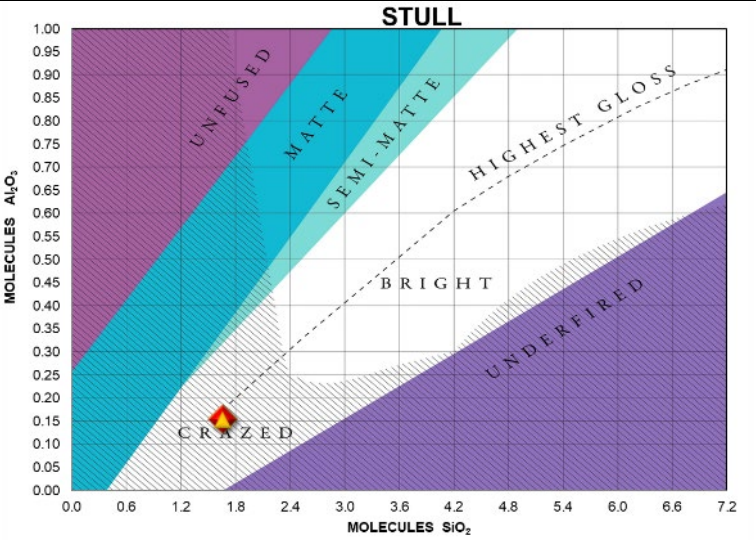
Reduction



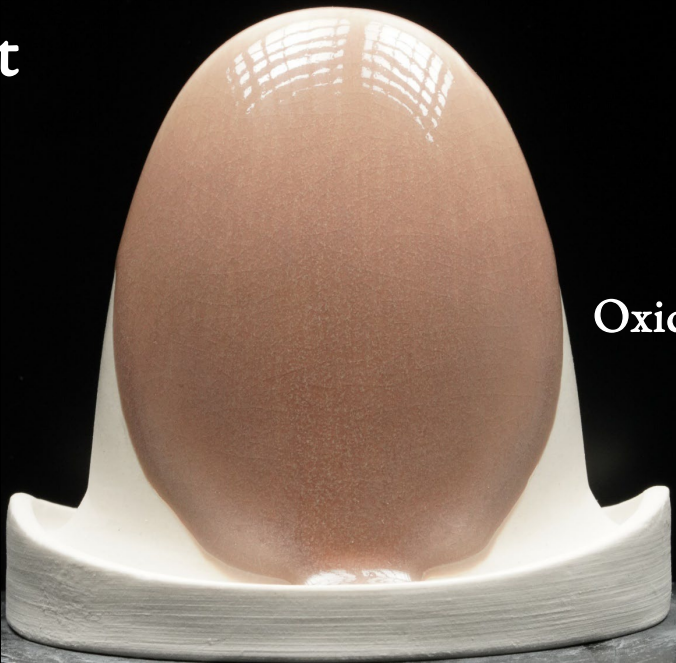
Ceramic
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Birdie's Nest

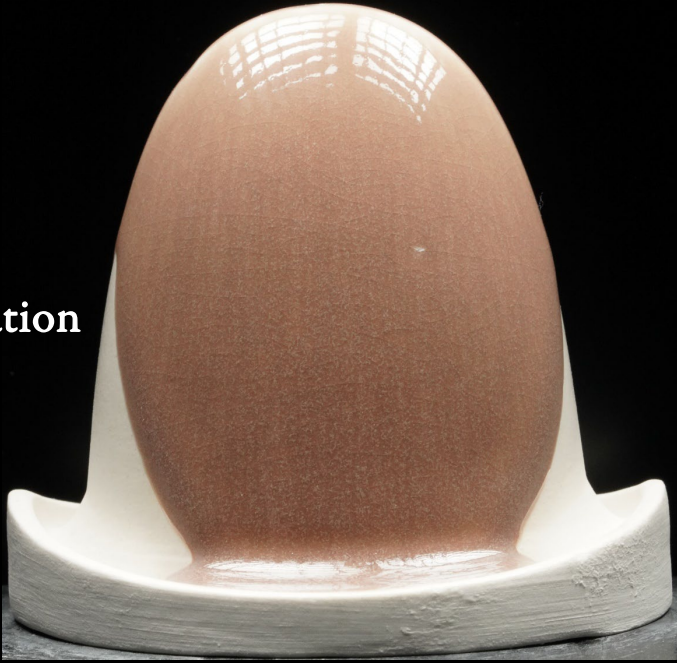
SiO ₂ :Al ₂ O ₃ Ratio 10.78 : 1		Alkali Metals 0.27		Alkaline Earths 0.73	
SiO ₂ 1.66	Collective "Al ₂ O ₃ " 0.15	Na ₂ O 0.18	K ₂ O 0.02	MgO 0.22	CaO 0.45
B ₂ O ₃ 0.17	Al ₂ O ₃ 0.15	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂ 0.07	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.07	CoO



Neph Sy	22.56
Dolomite	18.78
EPK	5.48
Flint	16.52
3134	27.39
Bentonite	1.86
Manganese Dioxide	2.78
Tin Oxide	4.63
Water	180



1-3 Second Dip



2-3 Second Dips

Oxidation



1-3 Second Dip



2-3 Second Dips

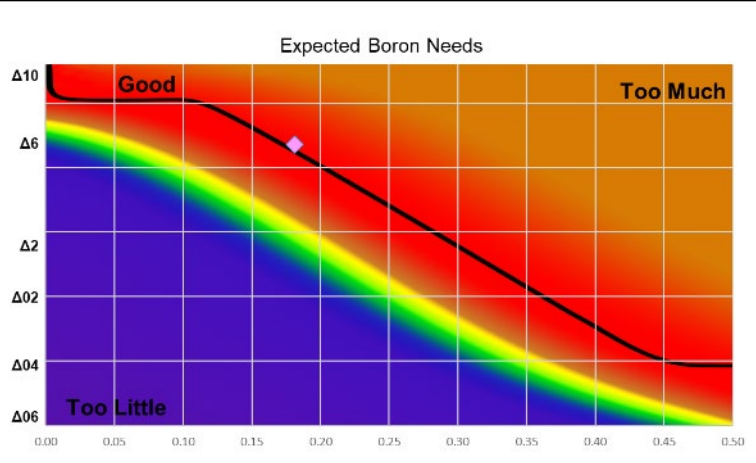
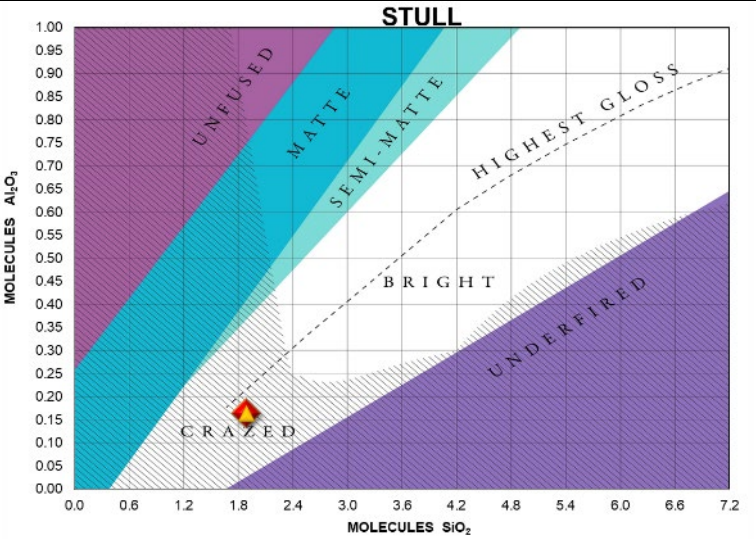
Reduction



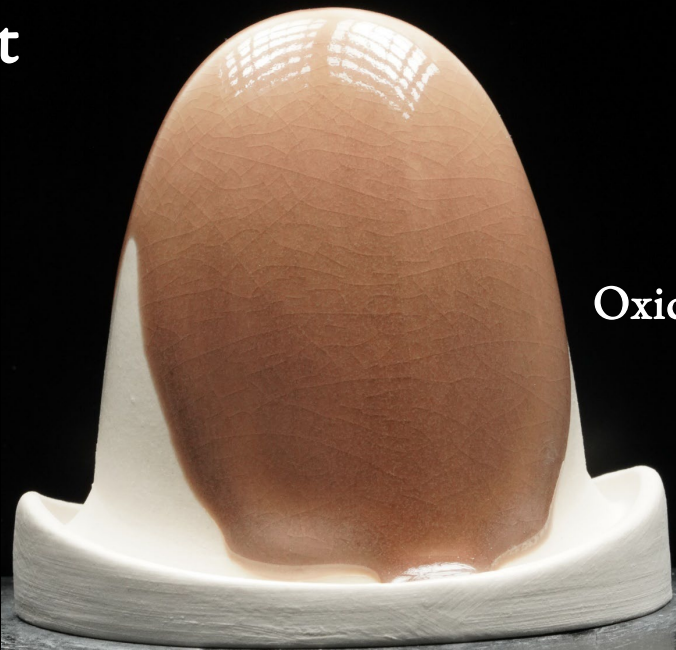
Ceramic
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Birdie's Nest

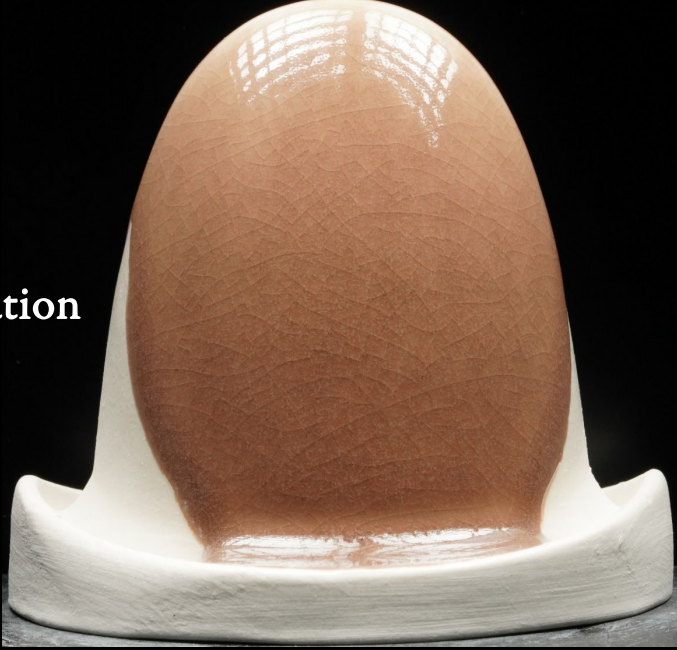
SiO ₂ :Al ₂ O ₃ Ratio 11.47 :1		Alkali Metals 0.21		Alkaline Earths 0.79	
SiO ₂ 1.89	Collective "Al ₂ O ₃ " 0.16	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.48
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂ 0.07	CoO



Neph Sy	21.56
Dolomite	17.95
EPK	5.24
Flint	15.79
3134	26.18
Bentonite	1.78
Manganese Dioxide	2.65
Ultrox (Zircopax)	8.85
Water	180



Oxidation



1-3 Second Dip

2-3 Second Dips



Reduction



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Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 4.87 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 1.91	Collective "Al ₂ O ₃ " 0.39	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.51
B ₂ O ₃ 0.20	Al ₂ O ₃ 0.18	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.17	NiO 0.05	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

Neph Sy	22.45
Dolomite	18.70
EPK	5.46
Flint	16.44
3134	27.27
Bentonite	1.85
Nickel Carb (Green)	2.30
Titanium Dioxide	5.53
Water	90



1-3 Second Dip

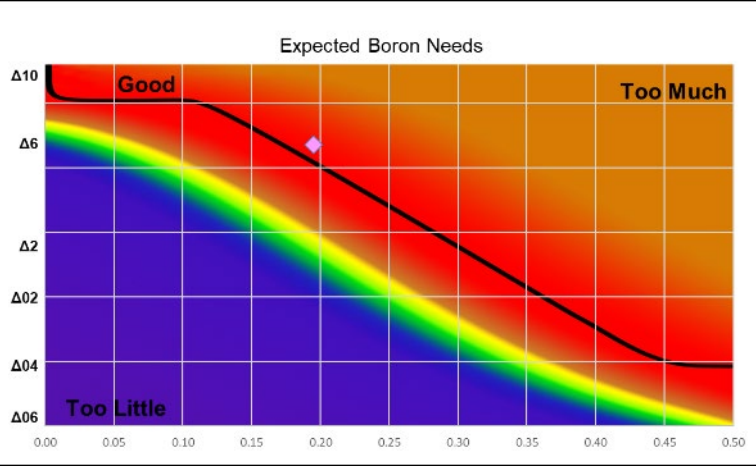
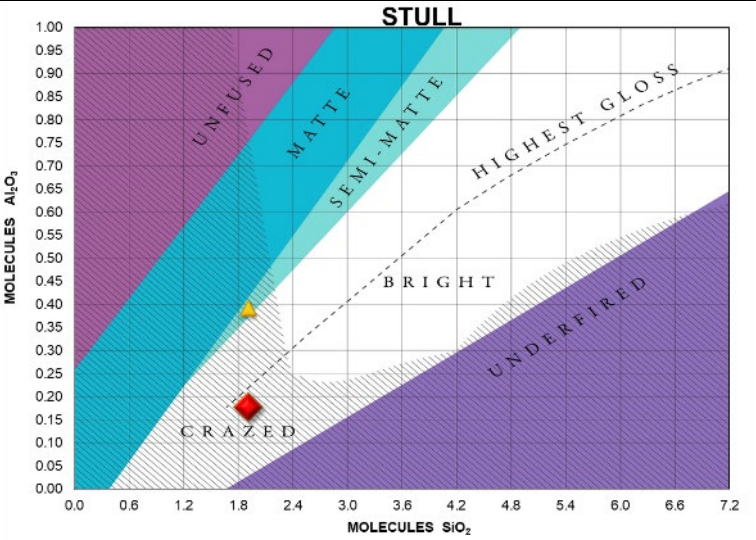


2-3 Second Dips

Oxidation



Reduction



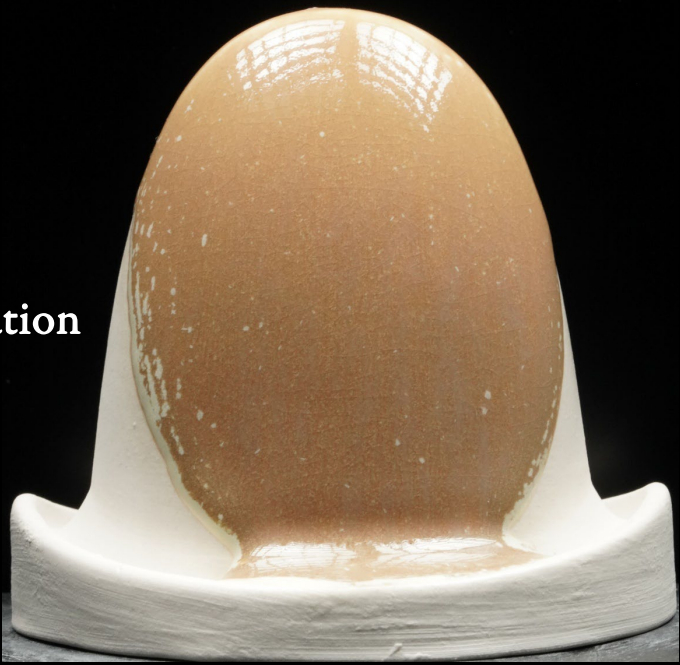
Ceramic
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Birdie's Nest

Neph Sy	22.66
Dolomite	18.87
EPK	5.51
Flint	16.59
3134	27.52
Bentonite	1.87
Nickel Carb (Green)	2.33
Tin Oxide	4.65
Water	90



1-3 Second Dip



2-3 Second Dips

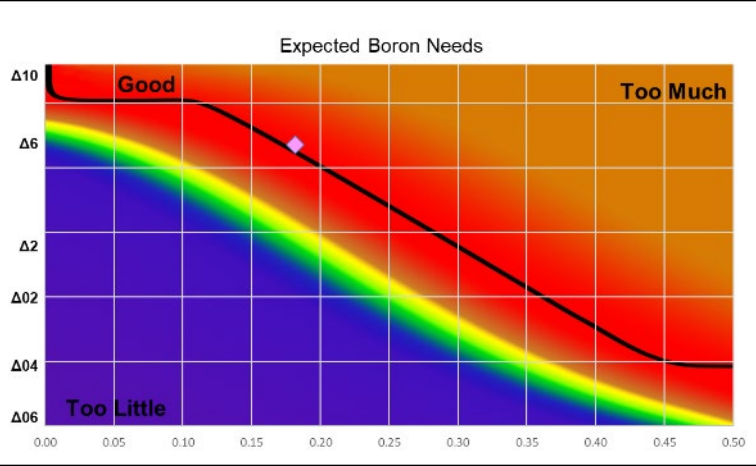
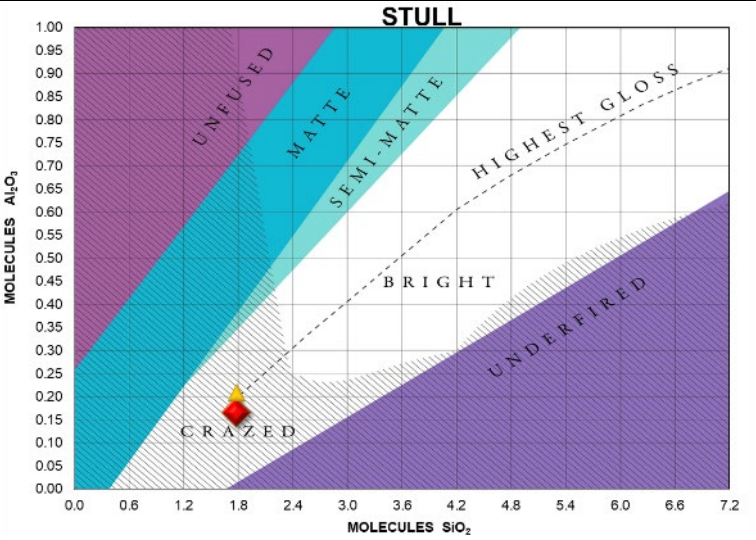


Reduction



Oxidation

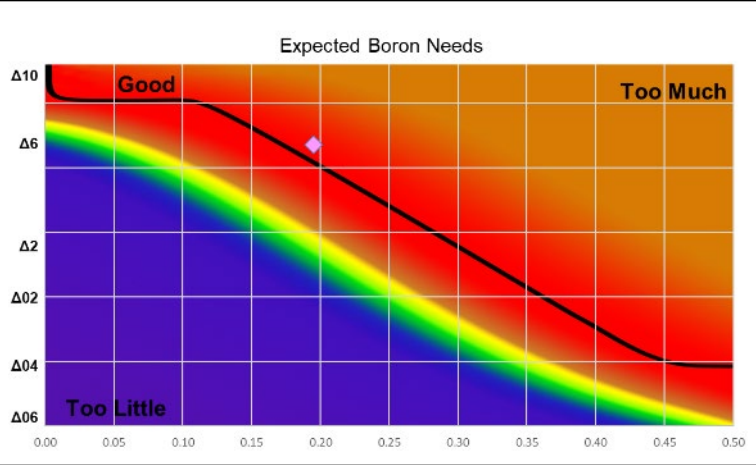
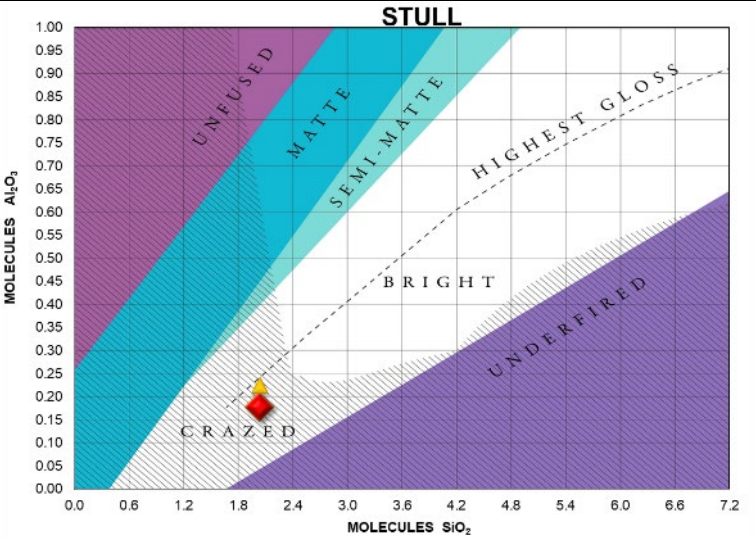
SiO ₂ :Al ₂ O ₃ Ratio 8.50 : 1		Alkali Metals 0.28		Alkaline Earths 0.72	
SiO ₂ 1.78	Collective "Al ₂ O ₃ " 0.21	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.48
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO 0.04	Bi ₂ O ₃	SnO ₂ 0.07	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



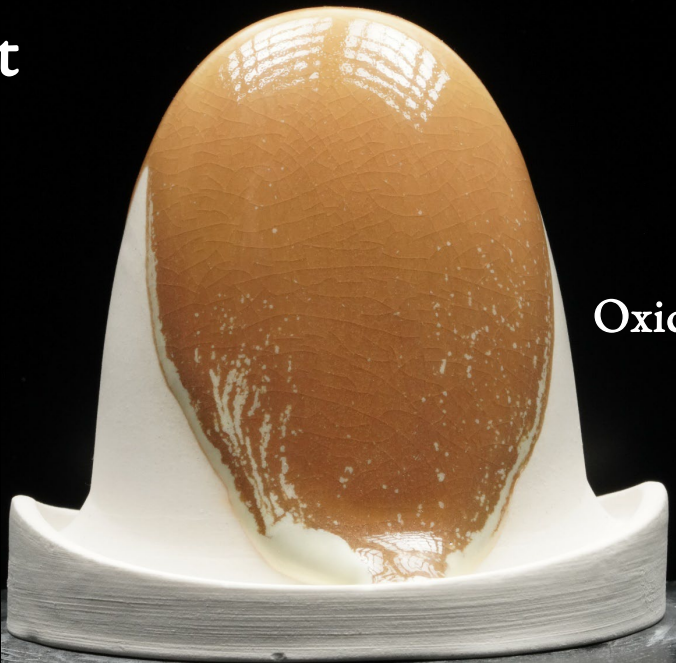
Ceramic
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Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 9.05 : 1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.04	Collective "Al ₂ O ₃ " 0.23	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.51
B ₂ O ₃ 0.20	Al ₂ O ₃ 0.18	Li ₂ O 0.00	CuO 0.00	SrO 0.00	BaO 0.00
TiO ₂ 0.00	NiO 0.05	Bi ₂ O ₃ 0.00	SnO ₂ 0.00	ZnO 0.00	FeO 0.00
Cr ₂ O ₃ 0.00	ZrO ₂ 0.00	P ₂ O ₅ 0.00		MnO ₂ 0.00	CoO 0.00

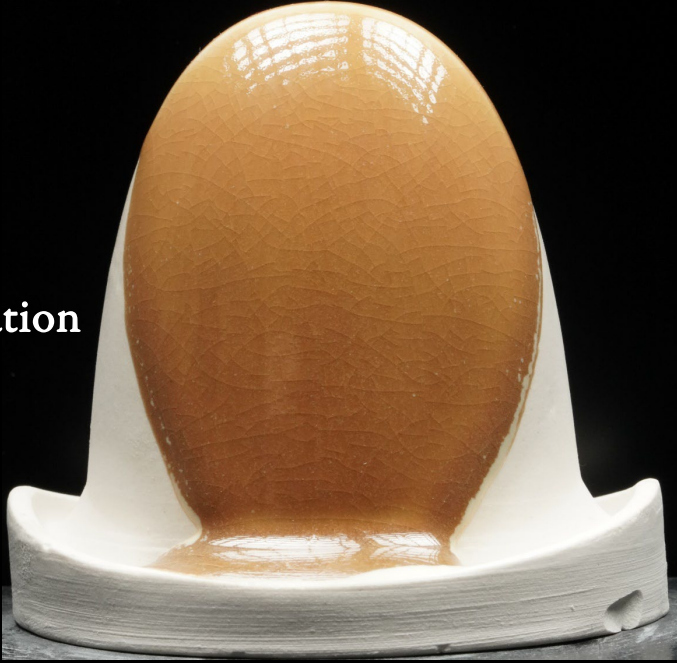


Neph Sy	21.66
Dolomite	18.03
EPK	5.26
Flint	15.86
3134	26.30
Bentonite	1.79
Nickel Carb (Green)	2.22
Ultrox (Zircopax)	8.89
Water	90



Oxidation

1-3 Second Dip



2-3 Second Dips



Reduction



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Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 5.55 : 1		Alkali Metals 0.28		Alkaline Earths 0.72	
SiO ₂ 1.78	Collective "Al ₂ O ₃ " 0.32	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.48
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.16	NiO	Bi ₂ O ₃	SnO ₂ 0.07	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

Neph Sy	21.95
Dolomite	18.27
EPK	5.33
Flint	16.07
3134	26.65
Bentonite	1.81
Titanium Dioxide	5.41
Tin Oxide	4.50
Water	150



Oxidation

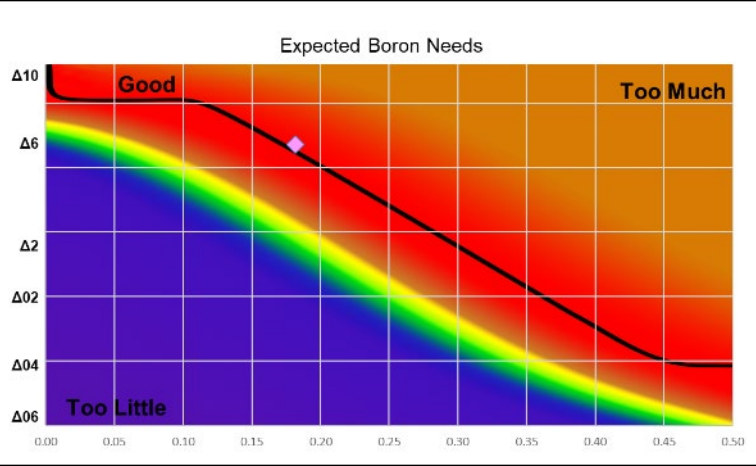
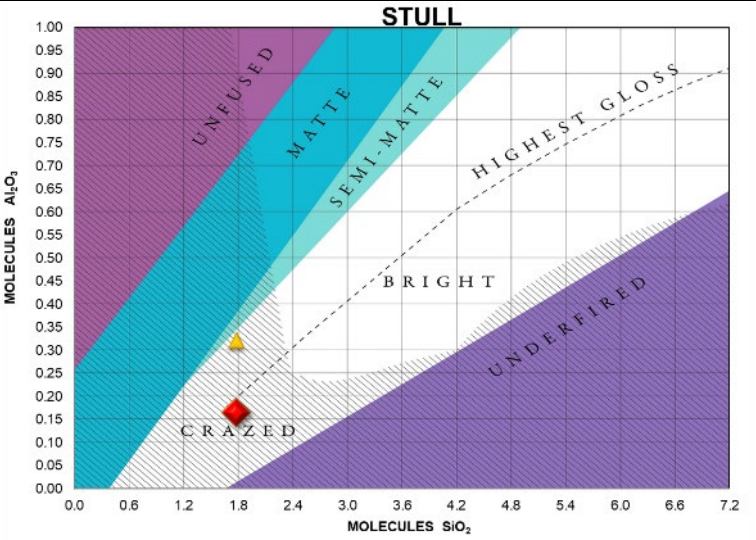


1-3 Second Dip

2-3 Second Dips



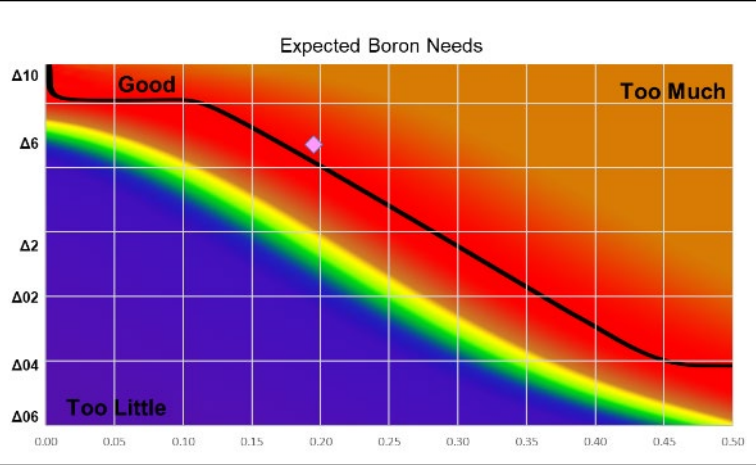
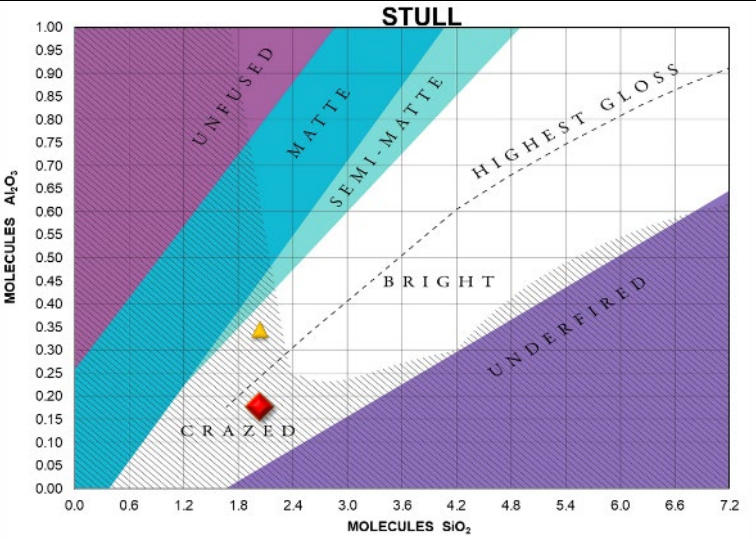
Reduction



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Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 5.90 :1		Alkali Metals 0.23		Alkaline Earths 0.77	
SiO ₂ 2.04	Collective "Al ₂ O ₃ " 0.35	Na ₂ O 0.20	K ₂ O 0.03	MgO 0.25	CaO 0.51
B ₂ O ₃ 0.20	Al ₂ O ₃ 0.18	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.17	NiO	Bi ₂ O ₃	SnO ₂	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO



Neph Sy	21.00
Dolomite	17.49
EPK	5.10
Flint	15.38
3134	25.51
Bentonite	1.73
Titanium Dioxide	5.17
Ultrox (Zircopax)	8.62
Water	150



1-3 Second Dip



2-3 Second Dips



Reduction



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Birdie's Nest

SiO ₂ :Al ₂ O ₃ Ratio 11.47 : 1		Alkali Metals 0.28		Alkaline Earths 0.72	
SiO ₂ 1.90	Collective "Al ₂ O ₃ " 0.17	Na ₂ O 0.19	K ₂ O 0.02	MgO 0.23	CaO 0.48
B ₂ O ₃ 0.18	Al ₂ O ₃ 0.16	Li ₂ O	CuO	SrO	BaO
TiO ₂ 0.00	NiO	Bi ₂ O ₃	SnO ₂ 0.07	ZnO	FeO 0.00
Cr ₂ O ₃	ZrO ₂	P ₂ O ₅		MnO ₂	CoO

Neph Sy	21.18
Dolomite	17.64
EPK	5.15
Flint	15.51
3134	25.73
Bentonite	1.75
Tin Oxide	4.35
Ultrox (Zircopax)	8.70
Water	120



Oxidation

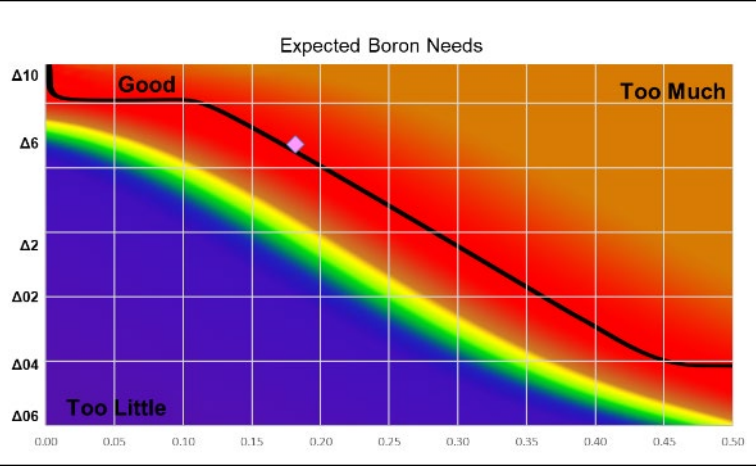
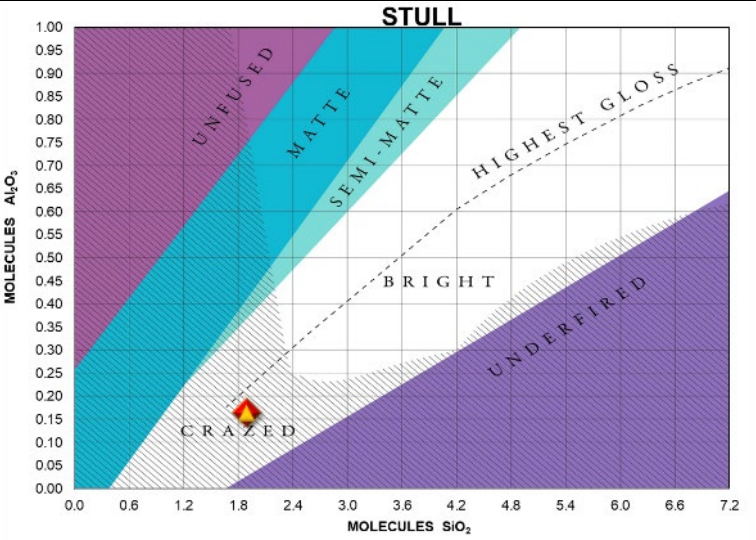


1-3 Second Dip

2-3 Second Dips



Reduction



Ceramic
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