



# Gerstley Borate Glaze Resource

from Laguna Clay Company, your Gerstley Borate source.

We welcome your contribution to the Gerstley Borate Glaze Resource.  
 Please send your formulation along with a picture of the fired glaze to:  
[Julie@lagunaclay.com](mailto:Julie@lagunaclay.com)

## Black Stain—Cone 10

- Black Iron Oxide.....250 g
- Cobalt Carbonate.....150 g
- Manganese Dioxide.....100 g
- Chrome Oxide.....50 g
- Gerstley Borate.....100 g

## Stain Base

- Nepheline Syenite .....1 part
- Gerstley Borate.....1 part
- Tri-Calcium Phosphate (bone ash).....1 part
- Frit 3110.....1 part

*For Iron:* + 8 parts Red Iron Oxide  
 + 8 parts Albany Slip (or appropriate substitute)

*For Rutile:* + 8 parts Rutile Oxide

*For Cobalt:* + 5 parts Cobalt Carbonate

**Formulas above posted by Bridget Hauser at**  
<http://www.lmrappotterystudio.com/pages/glazenfire.html>

The formulations in this document are untested. Please test before batching.  
[www.lagunaclay.com](http://www.lagunaclay.com)



## Laguna Clay Company Compilation Gerstley Borate Formulations (test before batching)

### Formulas from John Post

[www.johnpost.com](http://www.johnpost.com)

#### Pete's Tomato Red #13

Frit 3134.....	11 %
Nepheline syenite.....	23.6%
Bone ash.....	7.9%
Magnesium carb.....	6.3%
Whiting.....	7.9%
EPK.....	21.6%
Flint.....	21.7%

Total	100 %
Bentonite.....	2 %
Red iron oxide.....	10 %

#### Notes:

This is glaze number 13 from the first Currie grid that I ran of Pete's Tomato Red # 3 from Clay Times.

I also ran a line blend of this glaze using natural red iron oxide in increments from 0-20%. This glaze has the most red color with 10% red iron. It is a mottled greenish-red with 8% red iron and a darker red with 12% red iron.



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Base recipe by Judith Marks  
Crater Rim Ceramics, Hawaii  
<http://www.jqjacobs.net/art/glazes2.html>

Blue Hawaii Cone 7

custar feldspar.....	340
silica.....	236
whiting.....	144
talc.....	32
bone ash.....	16
epk kaolin.....	8
gerstley borate.....	9
bentonite.....	8
copper carbonate.....	8
cobalt carbonate.....	4

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# Laguna Clay Company Compilation Gerstley Borate Formulations (test before batching)

Robin McAlister, director  
Albertus Magnus College  
<http://www.jnevins.com/cone6glazes.htm>

Schefflin Yellow – Cone 5-6

Gerstley Borate.....	50
EPK.....	15
Flint.....	35
Total	100

Dark Rutile 15

Notes: Creamy yellow

Schefflin Blue—Cone 5-6

Gerstley Borate.....	50
EPK.....	15
Flint.....	35
Total:	100

Cobalt Oxide 2  
Red Iron Oxide 3

Notes: Glossy navy blue. Works well with Sarah's Folly.

Floating blue cone 6 ox. --- Cone 5-6

neph sye.....	47.3
gerstely borate.....	27.
silica.....	20.3
kaolin.....	5.4
red iron ox.....	2
cobalt carb.....	1
rutile.....	4
bentonite.....	2

This glaze has been around the bend a few million times, must have been posted here on clayart many times. Its a glossy tan background with lots of blue floating. It's an absolutely reliable glaze, doesn't run, pinhole etc. you can't go wrong with it.

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VC "71"

Custer Spar.....	40
Gerstley Borate.....	9
Whiting.....	16
Talc.....	9
Epk.....	10
Flint.....	16

Flick Ketchup – Cone 5-6

Gerstley Borate.....	32
Talc.....	14
Flint.....	30
Kona F4.....	20
EPK.....	4
Total	100

Red Iron Oxide.....	15
Bentonite.....	2

Notes: Satin matte, rich reddish brown.

Faux Celadon – Cone 5-6

Kona F4.....	41
Flint.....	19
Superpax*.....	11
Gerstley Borate.....	11
Whiting.....	7
Dolomite.....	5
Zinc Oxide.....	2
Tenn Ball Clay.....	1
Bentonite.....	2
Total	99

Copper Carbonate.....2.5

Notes: \*Superpax replaces zircopax. Superpax is stronger so use 1% less, so the recipe was altered to reflect that difference. Originally the recipe called for 12% zircopax.

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Breaking Out Red -- Cone 5-6

Gerstley Borate.....	55
Talc.....	15
Flint.....	30
Total	100

Red Iron Oxide.....	22
Bentonite.....	2

Notes: Color variations with carved or textured surfaces.

Forest Green-- Cone 5-6

Gerstley Borate.....	49	1470	2940	3920
EPK.....	19	570	1140	1520
Flint.....	32	960	1920	2560
Total	100	3000	6000	8000

Soda Ash .....	0.2	6	12	16
Chrome.....	2	60	120	160
Cobalt Carbonate .....	1	30	60	80
Bentonite.....	2	60	120	160

Notes: Use chromium oxide for chrome.  
Glaze is a glossy deep green color.  
Can use 5% zircopax for a white.



# Laguna Clay Company Compilation Gerstley Borate Formulations (test before batching)

## Sarah's Folly – Cone 5-6

Gerstley Borate.....	7.5
Talc .....	5.4
Dolomite.....	3.3
Kona F4.....	16.6
Nepheline Syenite.....	32.9
Whiting.....	7.1
Zinc Oxide.....	6.6
EPK .....	12.5
Flint.....	8
Cobalt Oxide* .....	2
or	
Cobalt Carbonate** .....	2
Bentonite .....	2

Notes: \*Using cobalt oxide will give a deep blue-purple  
\*\*Using cobalt carbonate will give a pinkish-purple