

Clay Bodies – Wood, Salt, Soda

LIGHT WOODFIRE

<u>Helmer Kinose</u>	
Helmer kaolin.....	65
Custer Feldspar.....	20
Flint.....	15
Epsom salt.....	0.25
Sand.....	to taste

418 Helmar Body

Helmer kaolin.....	60
Old Mine #4 ball clay.....	10
Flint.....	5
Custer Feldspar.....	20
Sand 70 mesh.....	10
Epsom salt.....	0.25

Pioneer Day Body

Foundry Hill Cream.....	35
Helmer kaolin.....	45
Custer feldspar.....	20
China Sand.....	10

Equal Parts

Tile 6.....	20
Old Mine #4 ball clay.....	20
APG fireclay.....	20
Custer feldspar.....	20
200 mesh silica.....	20

Deadhead Wood

Helmer.....	50
Old Mine #4 ball clay.....	15
Custer Feldspar.....	20
200 mesh flint.....	15
#30 Silica Sand.....	10
#70 Silica Sand.....	10
Epsom Salts.....	25

Medium Dark Body

Goldart.....	40
Old Mine #4 ball clay.....	40
Custer Feldspar.....	10
200 mesh flint.....	10

SALT-WOOD BODY		
SPNE	10	PORTS
AP GEN.		
FIRECLAY	70	
BALL	10	
#6 TILE	20	

Sam's Stoneware Body

(Cone 10-12)

Custer Feldspar	30	lb
6 Tile	20	
Foundry Hill Creme	50	
Hawthorne Bond	20	
Kentucky Stone	50	
XX Sagger	50	
	220	lb

HELMER BODY

HELEN

HELMER	50
SPAR	25
FLINT	15
BALL	10

20 MESH GROG • TO TASTE

TEMPLE WOOD BODY

G-200 10

Goldart 40

Redart 20

NO SAGGER

Foundry Hill Fireclay 40

(10*)

KAREN KARNES SALT CLAY — COI

White Salt

Grolleg	48
A.P. Green fireclay	40
Kentucky OM#4 ball clay	20
Feldspar	15
Bentonite	1.5
plus grog or sand	3

Grey Salt

Jordan	75
A.P. Green fireclay	38
Feldspar	15
Bentonite	1.5
Grog	3

MAPLE WOODFIRE POC.

GRANZ	12.5	PARTS 14.4
EPK	20	23
#6	25	28.7
XX SAGGER	12.5	(14.4)
PYRAX	15	17.24
BENT.	2	2.3
	27	PARTS.

IRON-BEARING CLAY BODIES		PORCELAIN CLAY BODIES	
Dark Red Stoneware (Cone 6-14)		Helmer Porcelain (Cone 8-14)	
Custer Feldspar	10 %	G-200 Feldspar	25 %
Cedar Heights Redart	35	Helmer Kaolin	50
Cedar Heights Stoneware	35	XX Sagger	10
Kentucky Ball Clay (OM 4)	20	Silica (Flint)	15
	100 %		100 %
This is a reliable body with very good throwing properties. It can be fired to just about any temperature. In the back of the anagama, this		Helmer kaolin is particularly well suited for wood firing. It has to be fired to at least Cone 8 to avoid dry, melon-skin surfaces, but develops dramatic flashing patterns at higher temperatures. The smooth surface of this fine-grained clay will turn a variety of colors, including orange, red, brown and yellow.	
Martin Wood-Fire Porcelain Body (Cone 10-11)		Soda-Fluxed Porcelain (Cone 6-14)	
Grolleg Kaolin	12.5 parts	Nepheline Syenite	24 %
Edgar Plastic Kaolin	20.0	Grolleg Kaolin	29
6 Tile Clay	25.0	Tile 6	24
XX Sagger Clay	12.5	XX Sagger	14
Pyrax	15.0	Silica (Flint)	9
Bentonite	20		100 %
	37.0 PARTS 2.0 centimeters in height	Add: Bentonite	1 %
Baur Salt/Wood Orange Slip (Cone 10, reduction/wood fire)		This recipe was inspired by a clay body published in Jack Troy's <i>Wood-Fired Stoneware and Porcelain</i> . From Cone 6-9 in the back of an anagama, it develops intensely flashed surfaces that reflect the flame path along the piece. Toward the front of the kiln, this clay is self glazing, producing glassy whites and oranges. It has a great tendency to trap carbon and can turn jet black if in contact with coals.	
Borax	5.7 %	Flash 'N' Glass Porcelain (Cone 6-14)	
Zircopax	10.5	Custer Feldspar	10 %
Edgar Plastic Kaolin	41.9	Nepheline Syenite	15
Kentucky Ball Clay (OM 4)	41.9	Cedar Heights Redart	5
	100.0 %	EPK (Edgar Plastic Kaolin)	25
Purple Earthenware (Cone 5-10)		XX Sagger	25
Custer Feldspar	10 %	Silica (Flint)	20
Nepheline Syenite	15		100 %
Cedar Heights Goldart	20	In an effort to formulate a body that developed nice flashing and a glazed surface, I decided to include both potash and soda feldspars, as well as a little iron-bearing clay. The nepheline syenite lowers the temperature enough to make this clay look great in the back of wood kilns. The Custer feldspar encourages pinks, oranges and reds. This clay will usually be glassy if directly hit by flames.	
Cedar Heights Redart	40	JOHNSTON STONEWARE CLAY BODY	
XX Sagger	15		
	100 %	100 lbs.	Missouri Fire Clay
Be careful of how hot you fire this clay! It looks great in the back of the kiln and can go as hot as Cone 10, depending on the form. The surface is a lustrous purple with black flashes and golden ash deposits. The fine particles of this clay body make it wonderful to throw.		12 lbs.	Custer spar
Yellow Porcelain (Cone B-14)		10-15%	Fine grog for handbu
G-200 Feldspar	25 %		
Cedar Heights Redart	5	JOHNSTON PORCELAIN CLAY BODY	
EPK (Edgar Plastic Kaolin)	25		
Yellow Banks 101 (dark)	25	55 lbs.	Grolleg
Silica (Flint)	20	15 lbs.	Flint
	100 %	15 lbs.	Pyrophyllite
Add: Bentonite	1 %	22 lbs.	Custer spar
Mark Hewitt's Clay Body cone 10 reduction/wood fire		3 lbs.	Bentonite
Hawthorne Bonding Clay	15.0%	10%	Fine Molochite for ha
Foundry Hill Cream Clay	20.0		
Local Clay #1	10.0		
Local Clay #2	40.0		
Potash Feldspar	7.5		
Grog	7.5		
TOTAL	100.0%		
A silky chocolate body suitable for firing in an anagama, wood or salt kiln.			

Stoneware/Salt Body (Cone 8-10)	
A.P. Green Fireclay	10 pounds
Cedar Heights Goldart	50
Kentucky-Tennessee Ball Clay (M-377)	30
Tennessee Ball Clay (SGP 1)	20
Potash Feldspar	10
Grog	10
	130 pounds
Add: Red Iron Oxide	300 grams

Sculpture Body (Cone 8-10)	
A.P. Green Fireclay	100.00 parts
Tennessee Ball Clay (SGP 1)	7.00
Grog	20.00
	127.00 parts
Add: Red Iron Oxide	1.25 parts

Stoneware Salt Body (Cone 10)	
Kona F-4 Feldspar	50 lbs
Barnard Clay	10
Cedar Heights Goldart	180
Hawthorne Bond (35 mesh)	180
Tennessee Ball Clay #5	60
Pyrophyllite (Pyrotrol)	20
Silica (Flint)	20
	520 lbs

RECIPES	
Stoneware Body (Cone 9-10)	
Custer Feldspar	12 lbs.
Missouri Fireclay (Chicago Wellsville)	100
	112 lbs.
For a handbuilding body, add 10-15 lbs. fine grog.	
Porcelain Body (Cone 9-10)	
Custer Feldspar	22 lbs.
Bentonite	3
Grolleg Kaolin	55
Flint	15
Pyrophyllite	15
	110 lbs.
Add 10 lbs. Molochite for handbuilding.	

Grolleg Porcelain Body (Cone 8-13)	
Custer Feldspar	50 lb
Bentonite	4
Grolleg Kaolin	110
Flint	50
	214 lb

Helmar Light Stoneware Body (Cone 9-11)	
Custer Feldspar	20%
Helmar Kaolin	65
Flint	15
	100%
Per 100-pound batch, add 4 ounces Epsom salts.	

OESTREICH STONEWARE cone 9-10

Custer Feldspar	30.0
Gold Art	100.0
A.P. Green Fireclay	100.0
Ball Clay	50.0
70 mesh Sand	30.0
Red Iron Oxide	1%
Grey color. Good for salt firing	

Salt-Glazing Body (Cone 9-10)

Potash Feldspar	2.5 %
Cedar Heights Goldart Clay	40.0
Kentucky Ball Clay (OM 4)	15.0
Narco Fireclay	40.0
Flint	2.5
	100.0 %

For a darker clay body, add 5% Cedar Heights Redart.

White Soda Body (Cone 10, reduction)

Custer Feldspar	25 %
Edgar Plastic Kaolin	25
XX Sagger Clay	25
Flint	25
	100 %
Add: Bentonite	3 %

Fires off-white in reduction; develops orange-peel surface and light peach blush with soda.

ORANGE SALT/SODA CLAY BODY

Tile 6 (kaolin)	30 parts
EPK	20
Goldart	40
G200 Feldspar	6
Flint	4

7. ERSATZ BIZEN BODY #2

70 Old Hickory Ball Clay	
20 Foundry Hill Cream	
10 Custer (potash) feldspar	

6. ERSATZ BIZEN BODY #1

80 Old Hickory Ball Clay (or other ball clay)	
20 Redart (earthenware) clay	

Salt Body

A.P. Green Fireclay	200 parts
Ball Clay (Bandy Black*)	50
Ball Clay (C&C*)	50
Saggard Clay	100
Potash Feldspar	25
Flint	25
Silica Sand	25
	475 parts

4. STEVE DENNIS' WHITE STONEWARE

35 Grolleg Clay (English)	
15 Georgia Kaolin	
15 Tennessee XX Sagger Clay	
12 Tennessee Ball Clay #5	
10 Flint	
10 Potash feldspar	
8 sand (optional)	
2 bentonite	

8. YELLOW BANKS BODIES

Body #1

66.3 #401
33.7 #101
16.0 Custer

The relatively high percentage of iron-bearing #101 makes this clay mature in the C/4-8 range, where it registers both contact and atmospheric flashing in red to gray tonal range, similar to Ersatz Bizen bodies, above. Documents color changes when cooled in close proximity to charcoal.

Body #2

80.3 #401
19.6 #101
9.9 Custer

Similar to Yellow Banks #1, but somewhat lighter-burning, favoring gray and blue-gray tones due to the reduced feldspar and iron-bearing clay content.

The working properties of both bodies are very similar to those of porcelain, and make each a good choice to combine with light-burning white stonewares or porcelains.

9. ALL-PURPOSE FINE-GRAINED STONEWARE

20 XX Sagger
20 Kentucky Stone
20 Foundry Hill Cream
20 Old Hickory Ball Clay
10 Yellow Banks #101
10 Custer (potash) feldspar

10. OLSEN PCR (RED)

West Coast U.S.

34.5 Lincoln 60 Greenstripe
17.1 Missouri fireclay
13.8 Superblend ball clay
9.2 silica
4.6 #420 lone grog
4.6 #412 lone grog
9.2 Kingman (potash) feldspar
6.9 Red mesa clay (omit for white body)

Omit or reduce grog content for tableware.

11. OLSEN SCULPTURE BODY

40.0 Lincoln Greenstripe
20.0 #400 mesh grog
17.5 OM4 ball clay
10.0 potash feldspar
3.75 Red Mule clay
3.75 Red Mesa clay
2.5 sand

12. MID-RANGE PORCELAIN-TYPE BODY (C/6-9)

36.8 EPK (kaolin)
24.5 nepheline syenite
14.3 Tennessee ball clay #5
19.1 flint
5.1 bentonite

GROLLEG BODY RJ

Color	WHITE	Handb
	Ingredient	Amount
	GROLLEG KAOLIN	51.19
	CUSTER FELDSPAR	23.27
	SILICA	11.63
	Pyrophyllite	11.63
	BENTONITE	2.28
	Totals	100.00

Also Add:

200 Mesh Molochite 10.00
30-80 Mesh Molochite 10.00

Randy Johnston Stoneware

Color	Throwing
	Ingredient
	Amount
	A. P. Green Fireclay 64.41
	Custer Feldspar 12.45
	48 mesh Grog Kyanite 12.94
	100 mesh Kyanite 3.83
	OM-4 Ball Clay 6.38
	Totals 100.00

Also Add:

EPK 6.38

2. STONEWARE BODY

50 stoneware clay
20 ball clay
15 sagger clay
10 potash feldspar
5 flint

5. FINE-GRAINED PORCELAIN BODY

55 Grolleg Clay (English)
25-35 potash feldspar
15-25 flint
1-3 bentonite

POB STEVE DAVIS

From Sandy Maeru.

• HIGH FIRE CONE 9 • 10 CLAY BODIES • STONEWARE by Val Cushing •

These are plastic clay bodies. The verbal description by each number relates to reduction fitting. Generally speaking clay bodies will be a light color in oxidation.

CLAYS, FLUERS & FLELES	1. YC STONWARE low the body	2. LEVERZEN, GEISIG STONWARE, grey brown	3. STONEWARE, orange brown	4. STONEWARE, iron-stained	5. TIEEL, HZ STONEWARE, very plastic on the wheel	6. SEPARATE STONEWARE ON WHEEL
YACINTH						
ZEITAKTION						
EPK						
THE LIVAR						
 BALLCLAYS						
U.C.C	12	8%				
OMA						
XXX SOAKER						
TERNESEE 10						
 STONEWARE CLAYE						
COLDST	23-5	30.5				
TOURNEY FUL						
 FLUE CLAYS						
ATP GREEN	18	8				
ATP THORNE	35.5	30.5				
 TAFFUEWE CLAYE						
BARNARD BLACKBIRD	(2-1)	2				
TIZELLA RED						
THE DART						
 FLUERS						
ROSAV-FREDOPAR	110	8				
TAUC						
 FLELES						
FLINT				6		
ZILUMIN calcium hydroxide (200 mesh)	7	4				
 Any ball clay can be used in all these bodies - except body #2.						
Thrust very well. Medium benton - clays. Any ball clay may be used. Add 1% sacro Benzard for a very dark Walnut brown color. Banard may be eliminated 4-5% added to the Kona F-4 spars for a light tan color.						
 Any ball clay can be used in this formula. Very reliable.						
Forms a smooth surface in salt; and acidic. Do not substitute for any of these clays.						
 Light greyish. Plastic well in atmospheric temps. Shows spots & wood staining very well.						

VC 8-94 594

IS THIS IN PLACE OF 61206? OR FLINT?