

TECHNICAL STATEMENT
(ALL VE BODIES) 11/14/83.

I use 4 basic sculpture bodies:

VE C/5 Black Clay Body: sculpture
(with heavy reduction)

Ocmulgee "MILL" →	50
Pine Lake Fire Clay →	15
Goldart	10
Kentucky Ball Clay	5
Barnard (Blackbird) Clay	20
+ Wollastonite 15	100
+ Iron Oxide 6%	
+ Grog 36%	

<u>C/5 Chesnut Brown</u>			
AP Green Fire Clay	20		20
(NARCO) Pine Lake Fire Clay	20		20
Ocmulgee	20		20
Wollastonite	15		15
* Grog (GRADED) →	25		25
	100		100
+ 30%			

C/04 Tan-Orange

Ocmulgee	15
Narco Fire Clay	15
Pine Lake Fire Clay	15
Talc	15
Wollastonite	10
* Grog (GRADED)	30
	100
Iron Oxide 4%	
Barnard 3%	
Barium -handful	

C/04 White

XX Sagger Ball Clay	10
EPK	10
Tile 6	10
Talc	20
Wollastonite	15
Molochite	35
	100
Bentonite 2%	
Macaloid 2%	

A handful of nylon fiber is added for more dry strength and to reduce dry shrinkage, for every 200 lbs. of clay.

The pieces are dried over a 3 week period because of many enclosed volumes.

I use no surface treatment while firing, preferring the surface to be the clay itself, with no 'decorative affects'!

I am beginning to introduce color, by means of the addition of portland cement on the fired clay. 'WELD' is used to make it adhere.

This is used commercially for adding dry cement on to old cement. Oxides are used for colorants.

SOME HIGH FIRE BODIES FREQUENTLY USED AT ALFRED. THEY HAVE BEEN PROVEN BY USE AND TESTED AND ARE RELIABLE. ALL BUT NO. #1 ARE VO FORMULAS, ALTHOUGH YOU WILL SEE THEM ELSEWHERE UNDER DIFFERENT NAMES. THEY CAN BE USED IN C/9-11 OXIDATION BUT THEY WERE DESIGNED FOR C/9-11 REDUCTION. THE WHITE BODIES HERE ARE ALMOST THE SAME COLOR IN BOTH OXIDATION AND REDUCTION. BUT THE OTHER BODIES ARE A LIGHTER AND WARMER COLOR IN OXIDATION.

1. VO THROWING & HAND BUILDING PORCELAIN, ATTRIBUTED TO MANY PEOPLE AND PLACES. I FIRST HEARD OF IT AS "JUDY CORNELL" PORCELAIN. C/9-11 OX. OR R.

GROLLEG CHINA CLAY	- 55
CUSTER FELDSPAR	- 20
FLINT	- 12
(PYROPHYLLITE) PYRAX	- 13
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	100%
+ BENTONITE	- 2%

THIS BODY IS AS PLASTIC AS ANY REAL PORCELAIN I KNOW. IT IS QUITE WHITE & SLIGHTLY TRANSLUCENT. TO MAKE IT MORE TRANSLUCENT DROP THE PYRAX, AND MAKE IT 20 FLINT & 30 CUSTER SPAR & 50 GROLLEG. BUT THIS WILL NOT BE AS PLASTIC & WILL SHRINK MORE.

2. VO PORCELAIN, LESS EXPENSIVE THEN THEN JUDY CORNELL BODY BUT NOT QUITE AS WHITE, MAY SHRINK A LITTLE MORE. C/9-11 OX. OR R. WHEEL AND HAND BLDG.

TILE CLAY #6, KAOLIN	- 25
E.P.K. KAOLIN	- 20
GROLLEG CHINA CLAY	- 10
CUSTER SPAR	- 20
FLINT	- 12
PYRAX	- 13
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	100%
+ BENTONITE	- 2%

ALL PORCELAIN BODIES ARE BETTER AND MORE PLASTIC WITH AGING. (AS ARE ALL OTHER CLAY BODIES). KEEP THE BODY WET, WEDGE IT A LITTLE AND STORE IT IN PLASTIC BAGS FOR AT LEAST A MONTH IF POSSIBLE (FREE).

3. VO WHITE STONEWARE. C/9-11 (OX. OR REDUCTION) (OFF WHITE COLOR). (WHEEL OR HAND BUILDING).

TILE CLAY #6, KAOLIN	- 20
(FLORIDA KAOLIN) E.P.K.	- 20
XX SAGGER (BALL CLAY)	- 10
GOLDART STONEWARE	- 15
PINE LAKE FIRE CLAY	- 15
CUSTER SPAR	- 12
FLINT	- 8
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	100%

* Add Bentonite 2%
ADD MOLOCHITE (PORCELAIN WHITE GROG) IF YOU WANT MORE "TOOTH" (GRAIN). GROG ALWAYS HELPS REDUCE SHRINKAGE AND CRACKING. EVERY 2% TO 3% GROG CUTS THE TOTAL SHRINKAGE ABOUT 1%, OR A LITTLE MORE. I USE 4% MOLOCHITE IN THIS BODY.

4. VO LIGHT TAN (SANDY) C/9-11 R. (BUFF COLOR IN OXID.) STONEWARE. (OR OX.) WHEEL OR HAND.

FOUNDRY HILL CREME (STONEWARE)	• 10
GOLDART STONEWARE	• 20
PINE LAKE FIRE CLAY	• 30
AP GREEN MISSOURI FIRE CLAY	• 5
TILE CLAY #6 KAOLIN	• 20
CUSTER SPAR	• 5
TALC	• 5
FLINT	• 5
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	100%
+ FINE GROG (FIRE CLAY) 4%

GROG IS NOT NECESSARY, ONLY IF DESIRED, BUT IT ALWAYS REDUCES SHRINKAGE AND TENDS TO CUT DOWN CRACKS.

5. VO "GENERIC" STONEWARE C/9-11 R. OR OX. MEDIUM GREY/BROWN.

GOLDART STONEWARE	• 25
FOUNDRY HILL CREME	• 25
PINE LAKE FIRE CLAY	• 20
TENN. BALL CLAY	• 15
CUSTER SPAR	• 10
FLINT	• 5
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	100%

HARD. DENSE LOW ABSORPTION. (OPTIONAL) GROG 4%
"NEVER FAIL" TIME TESTED, WHEEL & HAND

6. VO "RICH" DARK BROWN C/9-11 R. (LIGHTER IN OX.) STONEWARE

GOLDART STONEWARE	• 40
PINE LAKE FIRE CLAY	• 25
TENN. BALL CLAY	• 15
CALVERT (OR OCMULGEE) RED CLAY	• 10
CUSTER SPAR	• 6
FLINT	• 4
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	100%

* VERY GOOD FOR WHEEL OR FOR HAND BLDG. ADD MORE GROG FOR HAND

+ RED IRON OXIDE • 1%
(OPTIONAL BUT) GROG • 4%

SOME PLASTIC, THROWING BODIES, FOR 17-10 REDUCTION - VC

COLORS WILL * CHANGE ACCORDING TO HOW THE KILN IS FIRED: SLIGHT, AVERAGE, OR HEAVY REDUCTION. ALL EXCEPT #1 WILL BE MUCH LIGHTER IN OXID.	1 PORCELAIN - WHITE-DENSE	2 WHITE (ISH) STONEWARE OFF WHITE, ON WARM SIDE. VCWS	3 LIGHT TAN, BUFF, SANDY COLOR. VCL5	4 ORANGE/TAN FIRE BRICKS COLOR VCMS	5 DARK BROWN CHOC. COLOR VCD5	6 LIGHT-PALE GREY TO MEDIUM GREY VCG5	HAND BUILDING COARSER TYPE PLANTERS, FOR HEAVY THROWING ORANGE-BROWN VCP5
GROLLEG	35	14					
TILE CLAY #6	20	20				25	
E.P.K.		20					
TENN. #9 BALL							
KY #0M4 BALL					6	25	
XX SAGGER			25	10			
GOLDART STONE WELLSVILLE MO.		12	20	(20) 20	30	20	10
MILL FIRE CLAY FIRE		12	32	40	20		30
AP GREEN FIRE			5		6	10	30
PBX VALENTINE				4	10		22
OC MULGEE RED			8	12	20		
CALVERT RED							
CUSTER SPAR.	20	12	6		4	12	
TALC.				(10) 10			4
FLINT.	12	10	4	4	4	8	4
PYRAX.	13						
GROG			6%	6%	6%		12%
MOLOCHITE		0-6%				6%	
BENTONITE		1%				1%	
MACOLOID	2%			1%			2%

ALL THESE BODIES ARE MEANT TO HAVE AN ABSORPTION OF AROUND 5% TO 6%, EXCEPT #1 & #5, WHICH WILL BE NEARLY VITREOUS. THEY SHOULD ALL HAVE A TOTAL SHRINKAGE OF AROUND 13 TO 14%, EXCEPT #1 & #5, WHICH MAY BE 15 TO 16%. THESE BODIES MAY NOT SUIT YOUR INDIVIDUAL TASTE OR PREFERENCE FOR THROWING BODIES, BUT ALL WORK. TWO TO FOUR WEEKS OF AGING (OR LONGER) WILL IMPROVE THE PLASTICITY, OF COURSE, PARTICULARLY IF YOU MIX THE BODIES ON THE "WET" SIDE AND ROUGHLY WEDGE BEFORE STORING IN PLASTIC BAGS. "NEVER" MIX UP A QUANTITY OF THESE BODIES, OR ANY OTHER BODY UNTIL YOU TEST IT.