

Technical Information: Chemical Analysis, etc...

	SiO2%	TiO2%	AL2O3%	Fe2O3%	P2O5%	CaO%	MgO%	K2O%	Na2O%	% Total Contraction		Pre Fired Total	Thermal Expansion		Texture 1-smooth 10-Coarse	Fired Colour	Firing Range °C	
										1100°C	1200°C		500°C	600°C				
<u>TERRACOTTA CLAY</u>																		
Standard Red	57.38	1.23	22.78	7.37	0.09	0.57	0.86	1.60	0.10	12.30	x	1100	0.319	0.455	5	Light-Dark Red	1080-1160	
Standard Red Grogged	59.88	1.19	21.44	6.99	0.08	0.39	0.80	1.49	0.07	11.30	x	1100	0.339	0.479	6	Light-Dark Red	1080-1160	
Sidd Terracotta Grogged 20%	61.57	1.12	20.40	6.63	0.07	0.59	0.77	1.54	0.09	13.34	x	1100	0.340	0.480	7	Light-Dark Red	1080-1160	
Terracotta Fine 120s	58.29	1.23	22.63	6.89	0.07	0.44	0.85	1.48	0.07	14.40	x	1100	0.332	0.469	3	Light-Dark Red	1080-1160	
V636	58.72	1.28	22.60	7.11	0.08	0.48	0.66	1.21	0.08	12.00	x	1100	0.309	0.441	5	Medium-Dark Red	1020-1160	
RBC 60s	58.65	1.14	22.25	6.62	0.08	0.38	0.77	1.46	0.09	10.25	x	1100	0.315	0.451	5	Pale-Dark Red	1040-1160	
Sculpture Clay	61.66	1.13	20.32	6.73	0.08	0.57	0.78	1.45	0.08	9.20	x	1100	0.315	0.467	10	Light-Dark Red	1020-1220	
Moulding Clay	57.92	1.03	21.26	6.92	0.11	0.34	1.35	2.46	0.38	15.44	x	1100	0.358	0.446	10	Medium-Dark Red	1020-1100	
<u>STONEWARE CLAYS</u>																		
V9A	61.30	1.20	24.41	2.38	0.04	0.22	0.64	1.91	0.10	x	13.40	1280	0.268	0.369	5	Buff-Grey	1180-1280	
V9 Grogged	65.67	1.08	21.04	2.60	0.04	0.20	0.56	1.77	0.09	x	13.40	1280	0.242	0.314	6	Grey Buff-Speck Grey	1180-1280	
HT	63.03	1.12	22.62	2.30	0.05	0.22	0.70	2.22	0.13	x	12.40	1280	0.249	0.346	5	Buff-Grey	1120-1280	
HT Grogged	66.10	1.03	20.70	2.04	0.06	0.21	0.63	2.02	0.13	x	14.50	1280	0.252	0.350	6	Buff-Grey	1120-1280	
HT Special	63.19	1.07	22.42	2.21	0.04	0.25	0.66	2.53	0.49	x	16.70	1280	0.274	0.365	5	Buff-Grey	1120-1280	
Delta	62.52	1.13	22.39	2.59	0.05	0.33	0.79	2.18	0.20	x	13.40	1280	0.262	0.359	6	Light Buff-Grey	1120-1280	
Special Fleck	60.13	1.18	24.47	2.70	0.04	0.35	0.78	1.91	0.18	x	12.40	1280	0.256	0.348	6	Buff-Grey	1150-1280	
White Fleck	70.28	1.30	18.61	1.25	0.06	0.27	0.52	1.84	0.25	x	14.50	1280	0.252	0.337	4	Off White-Speckled	1180-1280	
B17C White	65.99	1.26	22.05	1.11	0.06	0.15	0.45	1.99	0.20	x	12.40	1280	0.283	0.403	3	Pale Buff	1220-1280	
B17C White Grogged	68.35	1.14	20.44	0.95	0.06	0.13	0.39	1.87	0.20	x	12.40	1280	0.280	0.400	6	Pale Buff	1220-1280	
Millennium White	69.70	0.99	20.07	0.70	0.06	0.26	0.25	1.80	0.19	x	13.00	1260	0.370	0.500	2	Off White	1160-1260	
Arctic White	66.86	1.02	21.05	0.59	0.24	0.57	0.28	2.70	1.01	x	14.50	1280	0.322	0.467	2	Off White	1220-1260	
Birch	59.27	1.17	25.90	1.72	0.04	0.24	0.68	2.26	0.22	x	13.40	1280	0.258	0.340	5	Buff	1120-1280	
Crank	70.95	1.13	18.60	0.93	0.05	0.14	0.36	1.87	0.26	x	8.20	1280	0.240	0.324	10	Buff	1200-1280	
Toasted	58.49	1.22	25.42	3.02	0.05	0.30	0.69	1.93	0.11	x	13.40	1280	0.266	0.360	5	Warm Buff	1140-1250	
Raku	63.02	1.26	23.51	2.63	0.05	0.24	0.59	1.86	0.15	x	11.30	1100	0.264	0.365	6	Buff-Grey	960-1060 1220-1280	
Steve Harrison Body	69.15	0.97	20.03	0.64	0.08	0.30	0.27	2.49	0.90	x	15.00	1260	0.344	0.475	3	Off White	1160-1280	
St Patrick White	72.40	1.15	17.60	0.87	<	0.12	0.29	1.51	0.19	x	9.85	1200	0.306	x	3	Off White	1180-1280	
<u>EARTHSTONE CLAYS</u>																		
Original (E/S 5)	64.84	1.05	23.57	0.75	0.08	0.22	0.31	2.57	0.72	x	13.80	1280	0.26	0.32	3	Off White	1180-1300	
Original (E/S 5) 20%	63.48	0.88	26.00	0.79	0.09	0.20	0.31	2.50	0.66	x	9.00	1200	0.239	0.314	5	Off White	1180-1300	
Extra Smooth (E/S 10)	67.41	1.04	21.10	0.60	0.07	0.35	0.28	2.72	0.99	x	13.50	1280	0.24	0.3	1	Off White	1180-1280	
Smooth Texture (E/S 20)	63.17	0.90	26.80	0.85	0.09	0.18	0.30	2.48	0.61	x	11.10	1280	0.26	0.32	6	Off White	1180-1300	
Handbuilding (E/S 40)	62.82	0.92	27.04	0.80	0.09	0.18	0.31	2.50	0.60	x	10.30	1280	0.23	0.3	8	Off White	1180-1300	
Crank (E/S 50)	59.01	1.24	27.46	2.83	0.06	0.43	0.80	1.96	0.14	x	10.90	1280	0.22	0.27	10	Warm Buff	1200-1300	
Smooth Textured Crank (E/S 60)	60.28	1.20	26.89	2.55	0.06	0.36	0.75	1.84	0.17	x	11.12	1280	0.236	0.3	7	Warm Buff	1200-1300	
Terracotta Crank (E/S 65)	53.99	0.97	28.37	5.56	0.08	0.53	2.17	1.45	0.14	10	x	1100	0.248	0.34	10	Medium-Dark Red	1080-1220	
Architectural (E/S 70)	74.64	0.93	18.38	0.64	0.07	0.09	0.26	1.51	0.21	x	7.01	1280	0.291	0.402	10	Off White	1240-1300	
S/Tex. Terracotta Crank (E/S 75)	53.88	1.01	27.78	5.81	0.08	0.54	2.26	1.41	0.12	10	x	1100	0.256	0.348	7	Light-Dark Red	1080-1220	
Reduction (E/S 80)	69.10	1.24	19.31	1.71	0.05	0.18	0.33	2.15	0.48	x	12.10	1280	0.248	0.308	6	Warm Buff	1220-1300	
Flecked (E/S 90)	70.83	1.20	18.76	0.83	0.06	0.19	0.31	2.11	0.51	x	15.26	1280	0.268	0.377	6	Speckled Off White	1220-1280	
Speckled Stoneware (E/S 109)	71.40	1.28	18.60	0.78	0.08	0.16	0.33	2.05	0.45	x	11.80	1200	0.31	x	3	Speckled Buff	1160-1290	
Ming Porcelain (E/S 120)	64.68	0.05	23.35	0.37	0.10	0.39	0.26	3.05	1.32	x	18.00	1280	0.316	0.42	1	Very White	1220-1280	
White Earthenware (E/S 130)	59.70	0.71	19.89	0.69	0.07	5.03	0.22	1.63	0.18	9	x	1100	0.335	0.465	1	Off White	1060-1150	
Golden Harvest (E/S 150)	64.37	5.65	20.36	0.73	0.07	0.23	0.30	2.41	0.77	x	13.25	1280	0.239	0.307	1	Pale Buff	1180-1280	
Special (E/S 160)	66.13	1.05	23.08	0.76	0.08	0.13	0.31	1.96	0.21	x	11.00	1200	0.257	0.350	6	Off White	1200-1300	
Glacier Porcelain (E/S 170)	66.50	0.08	21.50	0.18	<	0.06	0.18	5.27	0.029	<	<	<	0.286	x		Very White	1250-1280	
Air-Drying Clay (E/S 950)	64.30	1.30	22.90	1.11	<	0.18	0.39	2.20	0.27	n/a	n/a	n/a	n/a	n/a	2	Grey	n/a	

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										1100°C	1200°C		500°C	600°C				
PROFESSIONAL CLAYS																		
Peter Beard Grogged (PF 510)	66.00	1.09	24.70	0.95	<>	0.10	0.33	1.85	0.18	x	9.00	1200	0.283	x	9	Off White	1140-1280	
Ashraf Hanna Raku (PF 520)	54.70	0.57	36.30	1.14	<>	0.12	0.34	2.25	0.18	x	8.00	1200	0.208	x	8	Off White	900-1200	
Jim Robison Crank (PF540)	59.90	1.52	30.70	1.53	0.05	0.15	0.28	1.48	0.21	x	9.00	1200	0.305	x	10	Warm Buff	1170-1300	
Svend Bayer Woodfire (PF 550)	66.50	1.10	22.10	0.76	<>	0.16	0.32	1.91	1.14	x	12.42	1200	0.311	x	8	Warm Buff	1260-1300	
White Stoneware (PF 560)	67.60	0.94	21.40	0.83	0.04	0.23	0.31	2.28	0.50	x	11.80	1200	0.309	x	3	Pale Buff	1200-1300	
White S/Ware Grogged (PF 570)	66.80	0.87	22.70	0.85	0.04	0.22	0.32	2.27	0.48	x	11.00	1200	0.287	x	6	Pale Buff	1200-1300	
White Earthenware (PF 580)	58.50	0.51	20.60	0.55	<>	6.02	0.46	1.60	0.50	x	8.00	1200	0.302	x	2	Off White	1150-1220	
Professional Redox (PF 590)	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	5	Warm Buff	1220-1300	
Architectural Handbuild (PF 610)	55.10	0.63	35.98	1.23	<>	0.14	0.32	2.10	0.20	x	9.20	1200	0.209	x	8	Off White	1260-1300	
GT Material (PF 640)	56.20	0.83	33.40	1.14	0.05	0.16	0.33	2.09	0.19	x	9.80	1200	0.225	x	8	Off White	950-1300	
Black Sculpture Clay (PF 660)	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	10	Black	1180-1260	
Smooth Textured Black (PF 670)	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>	7	Black	1180-1260	
PORCELAIN CLAYS																		
Audrey Blackman Porcelain	63.38	0.04	24.75	0.30	0.11	0.39	0.27	2.86	1.57	x	18.80	1220	0.281	0.373	1	Very White	1220-1280	
Royale Porcelain	64.83	0.04	23.41	0.36	0.10	0.45	0.26	3.07	1.31	x	17.00	1260	0.313	0.420	1	Very White	1220-1280	
Special Porcelain	66.08	0.03	22.47	0.40	0.10	0.37	0.27	3.36	1.17	x	15.50	1220	0.326	0.447	1	Very White	1220-1280	
P2 Porcelain	62.41	0.10	25.36	0.55	0.15	0.26	0.29	2.74	1.25	x	16.60	1220	0.307	0.418	1	Translucent White	1220-1250	
Porcelain Grogged	65.50	0.03	23.70	0.41	0.10	0.46	0.28	2.92	1.17	x	16.00	1200	0.310	x	4	White	1220-1300	
Industrial Porcelain	68.96	0.36	19.68	0.54	0.04	0.26	0.20	4.95	1.12	x	14.00	1260	0.361	0.485	1	White	1180-1220	
HP Porcelain (Throwing/Pugged)	65.10	0.05	24.23	0.47	0.08	0.23	0.23	2.60	0.41	x	13.50	1260	0.266	0.372	1	White	1300-1380	
Bone China	35.92	0.11	13.81	0.32	17.67	23.85	0.63	1.64	1.63	x	8.02	1220	0.416	0.525	1	Translucent White	38 Bullers Ring 1240	
Parian Body	62.06	0.04	22.82	0.16	0.10	0.11	0.07	9.48	0.51	x	13.00	1200	0.289	0.370	1	Translucent White	1200-1240	
EARTHENWARE CLAYS																		
ETC Semi-Porcelain	69.76	0.06	20.35	0.27	0.27	0.58	0.18	1.99	1.00	x	12.00	1200	0.317	0.451	1	Translucent White	1220-1250	
Standard White Earthenware	71.63	0.24	18.26	0.47	0.06	0.93	0.18	1.56	0.37	10.00	x	1100	0.360	0.510	1	White	1120-1160	
LF White Earthenware	60.32	0.65	20.70	0.68	0.06	4.94	0.26	1.59	0.16	9.00	x	1100	0.340	0.470	1	Off White	1060-1160	
White Earthenware Grogged	68.60	0.56	15.80	0.55	0.06	4.25	0.22	1.26	0.11	6.50	x	1100	0.354	x	5	Off White	1080-1180	
T.S FLAXpaperCLAY																		
Smooth Body (E/S 200)	58.11	1.20	19.12	1.20	0.05	0.20	0.34	2.07	0.44	x	10.00	1200	0.239	0.321	2	Off White	1100-1280	
Grogged Body (E/S 300)	57.29	1.07	23.49	1.33	0.06	0.18	1.20	2.06	0.36	x	10.00	1200	0.213	0.285	6	Off White	1100-1280	
White Earthenware (E/S 400)	64.56	0.88	18.16	0.82	0.04	0.23	0.27	2.33	0.87	8.00	x	1100	0.330	0.479	2	Off White	1080-1200	
Porcelain Body (E/S 600)	56.55	0.06	22.61	0.48	0.08	0.17	0.22	2.32	1.19	x	16.00	1200	0.256	0.338	2	Off White	1220-1280	
Porcelain Grogged Body (E/S 600)	59.30	0.03	26.00	0.37	<>	0.43	0.28	2.64	1.48	x	14.54	1200	0.256	x	5	Very White	1220-1280	
Terracotta Body (E/S 800)	56.30	1.21	21.10	8.31	0.11	0.36	0.74	1.44	0.05	11.60	x	1100	0.301	x	6	Light-Dark Red	1000-1180	
Chunky Crank (E/S 900)	58.90	1.18	26.90	1.17	<>	0.15	1.00	1.63	0.18	x	9.75	1200	0.270	x	10	Buff	1220-1280	

<> Information not yet available