

CLAY ANALYSES/TECHNICAL INFORMATION

Code/Description	Manuf. Code	Typical Analysis										Shrinkage		% Thermal Expansion	Fireclay	Other Clays	Grog % (Grade)	1=smoothest 10=coarsest		Vitrification Range	Firing Range (°C)	Slip Recipe to 10 kg Plastic		Typical Penetrometer Range
		SiO2	TiO2	Al2O3	Fe2O3	MnO	CaO	MgO	K2O	Na2O	Loss	1100	1200					Texture	Fired Colour			Dispex	Water	
150-1102 Oxidising St Thomas	PB	62.3	0.9	23.8	2.2	—	0.5	0.5	1.2	0.6	8.0	8%	11%	0.32	67	27	6(30s)	Medium 4-5	Speckled Buff	1260-1280	1140-1285	40	900	NGK 5-6
150-1104 Reduction St Thomas	PB	62.0	1.0	22.7	2.3	—	1.1	0.4	1.2	1.0	8.4	9%	11%	0.31	29	61	10(30s)	Medium 4	Warm Buff	1250-1280	1150-1280	20	900	
150-1106 White St Thomas	P	58.0	0.9	30.0	1.0	—	0.3	0.3	1.2	0.6	7.8	—	11%	0.31	—	69	20(40s)	Medium 5	Off-white grey	1280-1300	1160-1300	50	900	
150-1506 White St Thomas PB	PB	57.5	0.7	30.2	0.9	—	0.3	0.3	1.2	0.6	7.5	—	11%	0.31	—	69	20(40s)	Medium 5	Off-white grey	1280-1300	1160-1300	50	900	
151-1117 Buff Stoneware	S	58.2	1.3	26.6	1.8	—	0.2	0.9	2.2	0.1	8.7	9%	12%	0.32	79	16	8(85s)	Smooth 2	Buff Grey	1240-1270	1160-1290	100	1000	
151-1120 Buff School Clay	S	65.2	1.2	20.8	1.5	—	0.7	0.3	1.8	0.7	7.9	10%	12%	0.32	69	25	6(85s)	Smooth 1	Light Buff	1250-1290	1110-1285	40	950	
151-1124 Sanded Buff	S	65.8	0.8	21.0	1.4	—	0.6	0.3	1.7	0.7	7.9	9%	12%	0.32	65	21	14(30s)	Medium 4	Light Buff	1250-1290	1110-1285	40	950	
151-1514 Lavafleck	PB	63.0	1.3	22.4	1.7	—	0.4	0.3	1.8	0.7	7.8	—	12%	0.32	25	10	10(20s)	Medium 4-5	Lt Buff, Dap.Br	1250-1280	1200-1280	Not recommended		
152-1109 Flecked Stoneware	P	62.4	1.4	24.4	1.3	—	0.3	0.3	1.8	0.6	7.6	9%	12%	0.32	12	75	11(40s)	Medium 4	Off-white	1260-1300	1160-1290	20	900	
152-2109 Flecked Stoneware PB	PB	62.2	1.4	24.8	1.3	—	0.3	0.3	1.8	0.6	7.6	9%	12%	0.32	12	75	11(40s)	Medium 4	Off-white	1260-1300	1160-1290	20	900	
152-2110 Stoneware Body PB	PB	62.5	1.3	24.3	1.2	—	0.2	0.3	1.6	0.6	7.6	9%	12%	0.32	—	89	12(40s)	Medium 3-4	Off-white	1260-1300	1160-1290	20	900	
152-1115 Staffordshire Stoneware	S	61.5	0.5	24.8	8.8	—	2.2	0.2	1.8	0.4	7.8	10%	12%	0.32	35	63	—	Smooth 1	Off-white	1240-1270	1200-1290	Not recommended		
153-2112 Iwanhoe Tile Body	PB	62.0	1.3	26.0	2.8	—	0.5	0.2	1.4	0.7	5.1	9%	9%	0.32	19	44	37(60s)	Smooth 3	Brown Buff	1250-1280	1130-1260	80	1500	
153-1114 Original Craft Crank	P	61.3	0.9	26.3	2.8	—	0.4	0.3	1.4	0.6	5.8	9%	9%	0.31	30	27	42(20s)	Coarse 8	Brown Buff	1280-1320	1170-1300	60	900	
153-2114 Original Craft Crank PB	PB	61.2	0.9	26.4	2.8	—	0.4	0.3	1.4	0.6	5.8	9%	9%	0.31	30	27	42(20s)	Coarse 8	Brown Buff	1280-1320	1170-1300	60	900	
153-3114 Premium Craft Crank	P	61.3	0.9	26.3	2.8	—	0.4	0.3	1.4	0.6	5.8	9%	9%	0.31	—	57	42(20s)	Coarse 8	Brown Buff	1280-1320	1170-1300	60	900	
153-4114 Economy Crank	P	61.2	0.9	26.4	2.8	—	0.4	0.3	1.4	0.6	5.8	9%	9%	0.31	30	27	42(30s)	Coarse 8	Brown Buff	1280-1300	1170-1300	60	900	
153-7070 Sculpture Crank	P	61.3	0.9	26.3	2.8	—	0.4	0.3	1.4	0.6	5.8	9%	9%	0.31	30	27	46(20s)	Coarse 8-9	Brown Buff	1280-1320	1170-1300	60	900	
153-1127 Grogged Pink	PB	60.0	0.9	23.2	5.4	—	0.6	0.3	0.7	0.8	9.6	9%	11%	0.33	79	—	21(20s)	Medium 6	Pink/Buf	1180-1260	1130-1270	Not recommended		
153-1153 Industrial Crank	PB	60.6	0.9	26.5	2.8	—	0.4	0.3	1.2	0.8	6.4	—	9%	0.32	46	12	42(30s)	Coarse 8	Brownish Buff	1280-1320	1210-1300	Not recommended		
154-1154 Original Raku	PB	55.0	1.0	28.6	2.5	—	0.6	0.9	2.3	0.2	6.5	—	10%	0.31	60	8	32(20s)	Coarse 7-8	Brownish Buff	1280-1320	Over 900	60	100	
154-1156 Coarse Raku	PB	55.0	1.0	28.6	2.5	—	0.6	0.9	2.3	0.2	6.5	—	10%	0.31	60	8	37(10s)	Coarse 8-9	Brownish Buff	1280-1320	Over 900	60	100	
154-1159 Smooth Raku	PB	55.0	1.0	28.6	2.5	—	0.6	0.9	2.3	0.2	6.5	—	10%	0.31	60	8	32(20s)	Coarse 7	Brownish Buff	1280-1320	Over 900	60	100	
154-0131 Tandoori	P	Formula not disclosed										—	—	—	—	—	40(5s)	Coarse 9-10	Brownish Buff	1280-1320	Over 900	60	100	
155-1147 DL Porcelain	S	60.9	0.1	27.4	0.4	—	0.4	0.2	2.3	0.7	—	—	14%	0.31	—	63	—	Smooth 1	White	1240-1280	1250-1290	Not recommended		
155-1148 Bone China	S	29.0	—	16.8	0.2	—	23.1	0.5	1.3	1.2	8.8	—	14%	0.36	—	35	—	Smooth 1	Super White	1200-1250	1200-1250	10	900	
155-1149 HF Porcelain	S	60.2	0.1	28.2	0.3	—	1.8	0.2	1.9	0.7	6.8	—	14%	0.31	—	66	—	Smooth 1	White	1250-1280	1220-1295	10	900	
155-4000 JB Porcelain	S	60.2	0.1	28.2	0.1	—	1.8	0.2	1.9	0.7	6.8	—	14%	0.31	—	66	—	Smooth 1	Super White	1250-1280	1220-1295	10	900	
155-1151 Southern Ice Porcelain	—	Formula not disclosed										—	—	Data not available		—	—	—	Super White	1250-1280	1220-1300	—	—	
155-1152 Cool Ice Porcelain	—	Formula not disclosed										—	—	Data not available		—	—	—	Super White	1200-1250	1180-1230	—	—	
156-0630 White Crank	PB	58.0	0.9	30.2	1.0	—	0.3	0.3	1.2	0.6	7.7	—	10%	0.31	—	65	35(22s)	Medium 6	Off-white	1280-1300	1170-1300	Not recommended		
156-1161 T Material	—	Formula not disclosed										—	—	—	—	—	—	Coarse 7-8	Off-white	1280-1320	1200-1300	Not recommended		
156-2161 Y Material	PB	56.1	—	32.8	0.8	—	—	—	—	—	—	—	8%	0.3	—	68	32(20s)	Coarse 7-8	Off-white	1200-1300	1200-1300	Not recommended		
157-1142 White Special Stoneware	S	61.9	0.8	26.8	0.7	—	0.2	0.2	1.7	0.5	6.8	—	12%	0.32	10	85	5(90s)	Smooth 1-2	Off-white	1250-1280	1220-1300	40	900	
157-4230 White Grog Stoneware	S	61.9	0.8	26.8	0.7	—	0.2	0.2	1.7	0.5	6.8	—	12%	0.32	10	85	10(90s)	Smooth 1-2	White/Off-white	1250-1280	1220-1300	40	900	
157-1143 Draycott White Stoneware	S	61.5	0.5	24.8	0.8	—	2.2	0.2	1.8	0.4	7.8	10%	12%	0.32	35	63	5(-60s)	Smooth 1-2	White/Off-white	1240-1270	1200-1290	40	900	
157-1145 White Stoneware	P	63.2	1.0	26.2	0.7	—	0.2	0.3	1.6	0.5	6.4	—	12%	0.32	—	96	—	Smooth 1-2	White/off-white	1250-1280	1200-1300	40	900	
157-2145 White Stoneware PB	PB	63.2	1.0	26.2	0.7	—	0.2	0.3	1.6	0.5	6.4	—	12%	0.32	—	96	—	Smooth 1-2	White/off-white	1250-1280	1200-1300	40	900	
157-1150 Modelling Clay	P	69.0	1.7	20.0	0.8	—	0.2	0.4	1.9	0.3	5.4	9%	13%	0.33	—	100	—	Smooth 1	Light Ivory/Buf	1250-1280	1120-1275	40	900	
158-4138 Ivory Earthenware	S	68.2	0.5	19.2	0.5	—	1.8	0.3	1.6	1.3	6.5	9%	14%	0.36	—	77	—	Smooth 1	Ivory White	1180-1250	1100-1200	25	1000	
158-1141 Studio White Earthenware	S	67.6	0.5	19.2	0.7	—	1.8	0.3	1.8	1.5	6.5	9%	14%	0.35	—	77	—	Smooth 1	White	1180-1250	1100-1220	25	1000	
158-4130 Grogged White	S	68.6	0.5	19.6	0.7	—	0.1	0.6	2.0	1.5	6.6	9%	13%	0.35	—	60	10(40-d)	Medium 3	White	1180-1250	1100-1240	Not recommended		
158-4120 Grogged White (Molochite)	S	67.8	0.5	20.4	0.7	—	0.1	0.6	1.9	1.5	6.5	9%	11%	0.35	66	17	16(30-d)	Medium 4	White	1180-1250	1110-1250	Not recommended		
158-2144 Semi Porcelain	S	68.5	0.4	19.4	0.5	—	0.3	0.7	2.0	1.4	6.8	9%	14%	0.38	—	50	—	Smooth 1	White	1200-1260	1100-1260	25	1000	
159-1131 New Keuper Red	S	58.4	0.2	20.4	8.6	—	0.7	0.3	0.8	0.9	10.7	10%	13%	0.34	66	28	—	Smooth 1	Light Rustic Red	1180-1200	1080-1270	40	900	
159-3140 Keuper Sanded Red	S	58.8	0.2	20.2	8.5	—	0.7	0.3	0.8	0.9	10.6	10%	13%	0.34	62	26	10(40s)	Medium 3-4	Light Rustic Red	1190-1220	1090-1270	50	900	
159-1134 Grogged Red	PB	56.9	0.8	20.6	8.8	—	0.8	0.2	1.2	1.2	9.4	9%	12%	0.34	13	67	20(30s)	Medium 6	Red Terracotta	1160-1220	1040-1200	20	900	
159-1135 Original Red S/E	S	58.1	0.8	18.5	9.1	0.1	0.8	0.2	0.9	1.2	11.3	11%	—	0.33	33	67	—	Smooth 1	Red Brown	1130-1170	1050-1170	40	1000	
159-1137 Red Earthenware Terracotta	S	58.5	—	16.4	9.7	—	0.7	0.2	0.1	1.0	12.5	11%	—	0.33	17	83	—	Smooth 1	Red Brown	1100-1130	1040-1160	40	1000	
159-3730 Sanded Terracotta	S	58.4	—	17.1	9.4	—	0.7	0.2	0.1	1.0	12.5	10%	—	0.33	16	78	6(30s)	Medium 3	Red Brown	1100-1180	1040-1180	40	1000	
159-2130 Chocolate Black PB	PB	54.8	0.8	17.2	8.8	5.2	0.8	0.2	1.2	0.9	10.2	12%	—	0.34	100	—	—	Smooth 1	Chocolate Black	1110-1160	1040-1150	40	900	
180-1190 Paper Clay - white SW																								