

Technical information: analysis, shrinkages, texture.

	% Contraction		Pre-fired total	Thermal Expansion		Texture 1 – fine 10- course	Fired Colour	Firing Range °C
	1100°C	1200°C		500°C	600°C			
Grey	x	13.40	1280	0.258	0.324	5	Buff	
Terracotta	12.30	x	1100	0.319	0.455	5	Light – dark red	1080-1160
Terracotta Grogged	11.30	x	1100	0.339	0.479	6	Light – dark red	1080-1180
Millennium White	x	13.00	1260	0.370	0.500	2	Off white	1160-1260
Crank	x	8.20	1280	0.240	0.324		Buff	1200-1280
Earthstone extra smooth	x	13.50	1280	0.240	0.300	1	Off white	1180-1280
Professional White earthenware	x	8.00	1200	0.302	x	2	Off white	1150-1220
Architectural Earthstone	x	7.01	1280	0.291	0.402	10	Off white	1240-1300
Paperclay: smooth	x	10.00	1200	0.239	0.321	2	Off white	1100-1280
Paperclay: grogged	x	10.00	1200	0.213	0.285	6	Off white	1100-1280
Paperclay: white	8.00	x	1100	0.330	0.479	2	Off white	1080-1200
Paperclay: porcelain	x	16.00	1200	0.256	0.338	2	Off white	1220-1280
Paperclay: terracotta	11.60	x	1100	0.301	x	6	Light-dark red	1000-1180
Paperclay: Chunky Crank	x	9.75	1200	0.270	x	10	Buff	1100-1280
Royal Porcelain	x	17.00	1260	0.313	0.420	1	Very white	1220-1280
Smooth Black	x	10.00	1200	0.292	x	5	Black	1080-1260
Black Chunky	x	8.00	1200	0.283	x	10	Black	1080-1260
White stoneware slip	x	14.40±1	1280	0.283	0.403	3	Pale Buff	
White Earthenware slip	x	10.00±1	1200	0.302	x	2	Off white	1080-1180
Special porcelain slip	x	17.50±1	1220	0.326	0.447	1	Very White	1220-1280
Parian Casting slip	x	15.00±1	1200	0.289	0.370	1	Translucent white	1220-1240
Bone China casting Slip	x	10.02±1	1220	0.416	0.525	1	Translucent white	1220-1240

Casting Slip Recipes

(100-055 / 100-056) Terracotta

Clay	Water	Soda Ash	Sodium Silicate 140s
12.5kg	2 litres	7gms	19.4gms

Millenium White Stoneware

Clay	Water	Soda Ash	Sodium Silicate 140s
12.5kg	1.42 litres	5.5gms	17.5gms

Earthstone Extrasmooth

Clay	Water	Soda Ash	Sodium Silicate 140s
12.5kg	1.8litres	2.5gms	33.5gms