

Technical Data Sheet

PF670 (Smooth Textured Black)



Modelling



Hand Building



Throwing



Firing Range: 1080-1260°C



Colour: Black



Texture: Medium Textured



Bag Size: 12.5kg

Fired at

1300°C

1280°C

1260°C

1240°C

1220°C

1200°C

1180°C

1160°C

1140°C



Chemical Analysis (% Oxides Weight)		
Oxide		Percentages
Silicon Oxide	SiO ₂	49.75
Aluminium Oxide	Al ₂ O ₃	28.17
Iron Oxide	Fe ₂ O ₃	7.42
Manganese	MnO	5.47
Magnesium Oxide	MgO	0.21
Sodium Oxide	Na ₂ O	0.07
Potassium Oxide	K ₂ O	0.64
Titanium Oxide	TiO ₂	1.31
Loss of incineration	LOI at 1025°C	6.2

Green Physical Data	
Water Percentage	20-24%
Chamotte Percentage	32%
Chamotte Size	0-1mm
Consistency by penetrometer PT-207, using cylinder point of 2cm ³	0.9-1.1 kg/cm ²
IP Pfefferkorn (%)	20.2

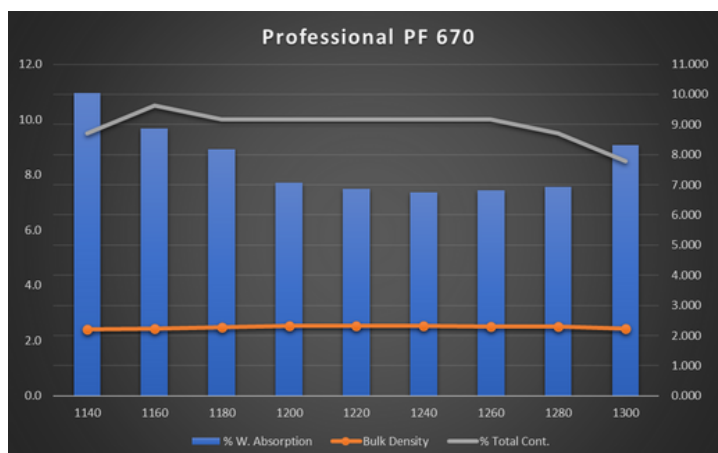
Dry Physical Data	
Drying shrinkage at 110°	6.5%

Coefficient off Expansion
74.0

Fired Physical Data	
Firing shrinkage at 1280°C	6%
Water absorption at 1280°C	%
Fired Colour (CIELAB)	L: 32.88 a: 1.25 b: 0.49

This technical information is only a guide, established from the characterisation and analysis of representative samples, and from routine production averages.

Product characteristics are subject to modifications.



Valentine Clays

MANUFACTURED IN THE HEART OF THE POTTERIES