

Technical Data Sheet

PF690 (Red Stoneware)



Throwing



Modelling



Hand Building



Firing Range: 1080-1260°C



Colour: Black



Texture: Smooth 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	46.42
Aluminium Oxide	Al ₂ O ₃	30.75
Iron Oxide	Fe ₂ O ₃	11.32
Calcium Oxide	CaO	1.37
Magnesium Oxide	MgO	0.33
Sodium Oxide	Na ₂ O	0.06
Potassium Oxide	K ₂ O	0.4
Titanium Oxide	TiO ₂	1.19
Loss of Ignition	LOI at 1025°C	6.96

Green Physical Data	
Water Percentage	19 - 23 %
Chamotte Percentage	40 %
Chamotte Size	0-0.3mm
Consistency by penetrometer PT-207, using cylinder point of 2cm ³	0.9-1.1 kg/cm ²

Dry Physical Data	
Drying shrinkage at 110°	7.0 %

Coefficient of Expansion
74.2

Fired Physical Data	
Firing shrinkage at 1280°C	11.5 %
Water absorption at 1280°C	9.45 %
Fired Colour (CIELAB)	L: 38.48 a: 15.20 b: 9.24

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.

