

# Technical Data Sheet

## PF680 (Smooth Black)



Throwing



Modelling



**Firing Range:** 1080-1260°C



**Colour:** Black



**Texture:** Smooth Textured



**Bag Size:** 12.5kg

Fired at

1300°C

1280°C

1260°C

1240°C

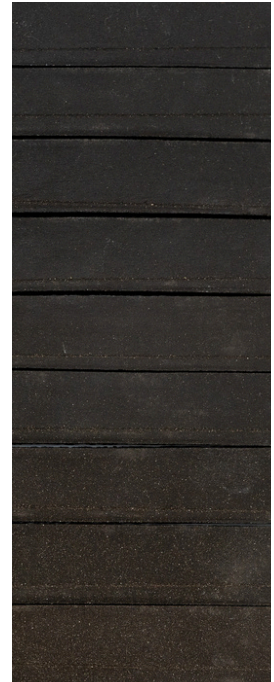
1220°C

1200°C

1180°C

1160°C

1140°C



Chemical Analysis (% Oxides Weight)		
Oxide		Percentages
Silicon Oxide	SiO <sub>2</sub>	45.94
Aluminium Oxide	Al <sub>2</sub> O <sub>3</sub>	30.96
Iron Oxide	Fe <sub>2</sub> O <sub>3</sub>	6.62
Calcium Oxide	CaO	0.44
Manganese	MnO	6.26
Sodium Oxide	Na <sub>2</sub> O	0.08
Potassium Oxide	K <sub>2</sub> O	0.57
Titanium Oxide	TiO <sub>2</sub>	1.48
Loss of incineration	LOI at 1025°C	7.01

Green Physical Data	
Water Percentage	19-22%
Chamotte Percentage	40%
Chamotte Size	0-0.2mm
Consistency by penetrometer PT-207, using cylinder point of 2cm <sup>3</sup>	0.9-1.1 kg/cm <sup>2</sup>
IP Pfefferkorn (%)	19.67

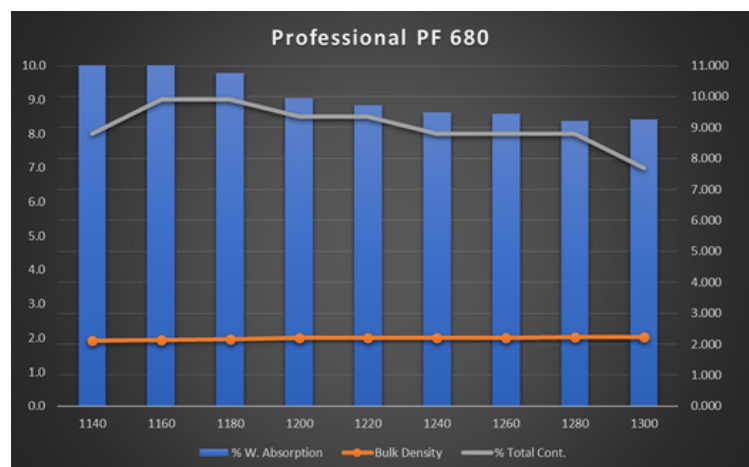
Dry Physical Data	
Drying shrinkage at 110°	5.8%

Coefficient off Expansion
78.1

Fired Physical Data	
Firing shrinkage at 1280°C	4.6%
Water absorption at 1280°C	9.45%
Fired Colour (CIELAB)	L: 31.02 a: 1.31 b: 1.96

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 Cla<sup>h</sup>s

MANUFACTURED IN THE HEART OF THE POTTERIES