

WALKER
Ceramics



Feeneys
Clay

Pottery Clays, Glazes and Colours

White Earthenware

Code: AA300

Description

A white earthenware body for throwing and pressing with precise thermal expansion for accurate glaze fit. This body is able to be used as a vitreous middle fire body at high temperatures.

Mesh : 80#

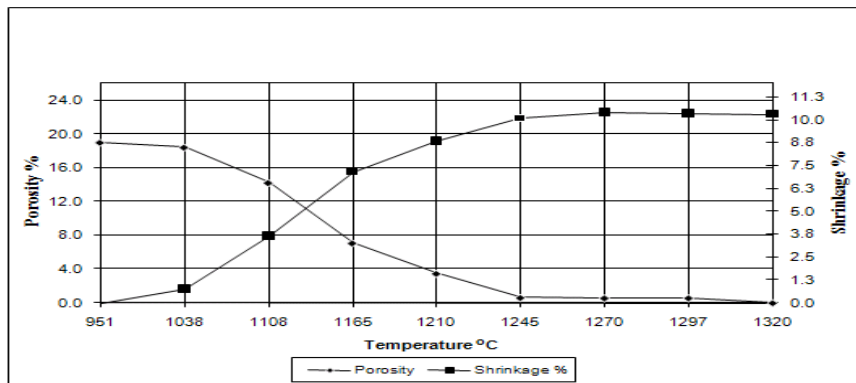
Recommended Firing

Bisque	Glaze Earthenware	Glaze Middle Fire
1000° C to 1060° C	1080° C to 1130° C	1225° C to 1250° C

Coefficient of Expansion

Sample fired at 1100° C, Orton cone 03. Linear expansion is 0.380% at 500° C and coefficient is 83.33×10^{-7} from 200° C to 500° C

Chemical Analysis		Shrinkage (fired)		
SiO ₂	73.99%	Wet to dry	2.3%	± 0.5%
Al ₂ O ₃	17.96%	Dry to bisque	0.2%	± 0.2%
TiO ₂	0.69%	Bisque to glaze	1.0%	± 0.5% at 1100°C
Fe ₂ O ₃	0.53%	Bisque to glaze	5.0%	± 0.5% at 1250°C
CaO	3.73%			
MgO	0.60%			
Water absorption				
Na ₂ O	0.57%	Biscuit	1000° C	Orton Cone 06 14%
K ₂ O	1.42%	Fired	1225° C	Orton Cone 6 less than 2%
L.O.I.	7.78%	Fired	1250° C	Orton Cone 7 0%



Glazes

101 is our standard clear lead free glaze for White Earthenware. See Walkers Earthenware glaze range for functional and decorative glazes. If making your own glazes contact us for technical assistance if required.

Presentation

Fully de-aired 10 kilogram block wrapped in recyclable polythene bags.

Moisture content of standard clay is 22% to 24%, PR 3 to 4.

Other moisture contents are available on special request using our Penetrometer Readings (PR) outlined below.

Preparation

Crude clays are blunged, sieved and passed over rare earth magnets, then stored in constantly agitated farm tanks. Final body blend is made with millimetre accuracy with powdered raw materials being added and agitated in. With this manufacturing method we can ensure reproducible recipe formulation to within 0.1%. Final body in liquid form is sieved and passed over rare earth magnets once again and then filter pressed. Filter pressed clays are then stock piled in cake form and allowed to age. Extruding takes place through a de-airing pugmill and clay is sealed airtight in polythene bags which can be stored indefinitely.

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