



## WATERGROUND BONE ASH

### ETRUSCAN GRADE - PRODUCT DATA

#### PREPARATION

Etruscan grade waterground bone ash is prepared from natural raw material that is continuously tested in our Etruria laboratories, to maintain the highest quality product. The material is calcined in continuous operation rotary kilns where temperature and atmosphere are stringently controlled. The hand selected calcined bone is then milled in water, passed through a series of screens and magnets to eliminate contamination and dewatered to produce the finished product.

#### CONTROL PROPERTIES

The following tests are carried out by Jesse Shirley laboratory staff to ensure that the product complies with the exacting standards required to manufacture the finest bone china. This product can be supplied locally as a fluid material or as semi-dry 'noodle' product.

<b>Particle size</b>	X-ray sedigraph: 85% ± 2% finer than 14µm equivalent spherical diameter.		
<b>Moisture Content</b>	Nominally 12.5%		
<b>Level of Deflocculation</b>	1650 gm/litre ± 100gm/litre (Redispersed slip density at 300° overswing using rotational torsion viscometer with <sup>11</sup> / <sub>16</sub> <sup>th</sup> bob and 30 SWG wire).		
<b>Chemical Analysis</b>	Years Chemical analysis data shown below: -		
	Average %	S Dev.	
	SiO <sub>2</sub>	1.11	0.2
	TiO <sub>2</sub>	0.01	—
	Al <sub>2</sub> O <sub>3</sub>	0.07	0.08
	Fe <sub>2</sub> O <sub>3</sub>	0.05	0.01
	CaO	53.22	0.17
	MgO	1.18	0.01
	K <sub>2</sub> O	0.01	0.01
	Na <sub>2</sub> O	0.65	0.09
	P <sub>2</sub> O <sub>5</sub>	40.21	0.07
	ZrO <sub>2</sub>	0.02	—
	BaO	0.04	—
	SrO	0.07	—
	Residual	3.33	0.2

