

TECHNICAL DATA SHEET

PRODUCT					
HYMOD AT BALL CLAY		A Dorset ball clay, its special feature is a high iron content useful in the production of warm coloured textured bodies at stoneware temperatures.			
CHEMICAL ANALYSIS (MEAN VALUES. THESE DO NOT REPRESENT A SPECIFICATION)					
ELEMENT		UNITS	TYPICAL VALUE	MIN	MAX
Silicon Oxide	SiO ₂	%	54.0	50.0	58.0
Titanium Dioxide	TiO ₂	%	1.2	0.8	1.6
Aluminium Oxide	Al ₂ O ₃	%	29.0		
Iron Oxide	Fe ₂ O ₃	%	2.3	1.7	3.0
Calcium Oxide	CaO	%	0.30		
Magnesium Oxide	MgO	%	0.40		
Potassium Oxide	K ₂ O	%	3.1	2.7	3.5
Sodium Oxide	Na ₂ O	%	0.5		
Loss of Ignition	LOI	%	8.5		
Carbon	C	%	0.2		

PARTICLE SIZE DISTRIBUTION (EQUIVALENT SPHERICAL DIAMETER)		
APERTURE	UNITS	TYPICAL VALUE
>125 micron	% Retained	0.2
>53 micron	% Retained	0.6
<5 micron	% Passing	95
<2 micron	% Passing	85
<1 micron	% Passing	78
<0.5 micron	% Passing	65
<0.25 micron	% Passing	47

PHYSICAL PROPERTIES				
	UNITS	TYPICAL VALUE	MIN	MAX
Specific surface area	m ² .g ⁻¹	35	29	41
Modulus of Rupture (Dried at 110°C)	MN.m ⁻²	7.0		
Water soluble salts	wt %	0.1		

CASTING DATA	
	TYPICAL VALUE
Casting concentration (mass % solids)	61.5
M75 sodium silicate + Na ₂ CO ₃ demand (mass%) 7 poise	1.4
M75 sodium silicate + Na ₂ CO ₃ demand (mass%) 5 poise	1.6

FIRED PROPERTIES %			
	1120°C	1180°C	1240°C
Brightness	41	35	33
Water absorption	3.5	2.0	1.0
Linear contraction	11.4	12.1	12.5

PRODUCT SIZE
The products are available in 25kgs Bags.