

TECHNICAL DATA SHEET

PRODUCT	
HYPLAS 71 BALL CLAY	A high siliceous Devon ball clay giving good plasticity with medium strength and a low iron content.

CHEMICAL ANALYSIS (MEAN VALUES. THESE DO NOT REPRESENT A SPECIFICATION)					
ELEMENT		UNITS	TYPICAL VALUE	MIN	MAX
Silicon Oxide	SiO ₂	%	71.0	68.0	73.0
Titanium Dioxide	TiO ₂	%	1.6	1.4	1.8
Aluminium Oxide	Al ₂ O ₃	%	18.5	16.5	21.0
Iron Oxide	Fe ₂ O ₃	%	0.8	0.6	1.0
Calcium Oxide	CaO	%	0.1		
Magnesium Oxide	MgO	%	0.3		
Potassium Oxide	K ₂ O	%	1.9	1.4	2.2
Sodium Oxide	Na ₂ O	%	0.3		
Loss of Ignition	LOI	%	5.3	4.7	5.8
Carbon	C	%	0.2		

PARTICLE SIZE DISTRIBUTION (EQUIVALENT SPHERICAL DIAMETER)		
APERTURE	UNITS	TYPICAL VALUE
>125 micron	% Retained	0.7
<5 micron	% Passing	72
<2 micron	% Passing	58
<1 micron	% Passing	48
<0.5 micron	% Passing	39

PHYSICAL PROPERTIES				
	UNITS	TYPICAL VALUE	MIN	MAX
Specific surface area	m ² .g ⁻¹	19	14	24
Modulus of Rupture (Dried at 110°C)	MN.m ⁻²	7.0		

FIRED PROPERTIES %	
	1170°C
Brightness	48.0
Water absorption	5.0
Linear contraction	4.8

PRODUCT SIZE
The products are available in 25kgs Bags.