

TECHNICAL DATA SHEET

PRODUCT	
CHINA CLAY N.50	A good general purpose, off-white firing Kaolin which is more suitable for casting.

CHEMICAL ANALYSIS (MEAN VALUES. THESE DO NOT REPRESENT A SPECIFICATION.)					
ELEMENT		UNITS	TYPICAL VALUE	MIN	MAX
Silicon Oxide	SiO ₂	%	48.4	47.0	50.0
Titanium Dioxide	TiO ₂	%	0.06		
Aluminium Oxide	Al ₂ O ₃	%	36.0	34.8	37.0
Iron Oxide	Fe ₂ O ₃	%	0.8	0.6	1.1
Calcium Oxide	CaO	%	0.05		
Magnesium Oxide	MgO	%	0.45		
Potassium Oxide	K ₂ O	%	2.6	2.0	3.2
Sodium Oxide	Na ₂ O	%	0.06		
Loss of Ignition	LOI	%	11.6	11.0	12.2
H ₂ O Moisture Content		%	11.7	10.0	14.0

PARTICLE SIZE DISTRIBUTION (EQUIVALENT SPHERICAL DIAMETER)				
APERTURE	UNITS	TYPICAL VALUE	MIN	MAX
20 micron	% Passing	99		
10 micron	% Passing	95		
5 micron	% Passing	78		
2 micron	% Passing	51	46	56
1 micron	% Passing	36		

OTHER PROPERTIES				
APERTURE	UNITS	TYPICAL VALUE	MIN	MAX
Residue > 53µ- Wet Screening	%	0.003		0.1
Modules of Rupture	p.f.s.i	140		
	Kgf/cm ²	9.8		
Water Absorption	%	13.2		
Linear Shrinkage Dry-Fired	%	10.4		
Fired Reflectance	%	81	78	
-Effective wavelength 457nm +/- 0.5				
Defloc Demand (using Keramag defloc @ 0.25% addition Fomasil/Wasserglass 1:1				
Fluidity (Gallenkamp TTV)	°o/s	355	350	
6 Minute Thixotropy (TTV)	°o/s	2		10
Density	g/cc	1.500	1.495	1.505
Surface Area	m ² /gm	11.1		

PRODUCT SIZE
The products are available in 25kgs Bags.