

TECNICAL INFORMATION - INDUSTRY CLAYS

Chemical Analysis (%)										Strength		Linear Contraction (%)		Thermal Expansion (%)		Colour	Recommended Applications					
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Clay Body	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	MgO	CaO	K ₂ O	Na ₂ O	LOI	Fired Strength (Kg/cm ²)	Unfired Strength (Kg/cm ²)	Wet to Dry	Dry to Fired	500°C	600°C	Fired Colour	Casting	Tiles	Ornamental	Tableware	Machine Making	Throwing	Modelling	
	CFE	60.80	16.45	0.49	0.40	0.17	7.58	1.18	0.14	11.80	417 ●	53	5.0	0.80●	0.36 ●	0.49 ●	Off White		◆	◆				
SP	69.39	19.23	0.47	0.26	0.18	0.84	1.62	0.36	6.91	635 ▲	46	5.0	8.40 ▲	0.36▲	0.51▲	White	◆			◆	◆	◆	◆	
RC	69.39	19.23	0.47	0.26	0.18	0.84	1.62	0.36	6.91	635 ▲	46	5.0	8.40 ▲	0.36▲	0.51▲	Off White	◆			◆	◆	◆	◆	
HWP	70.40	18.40	0.47	0.31	0.37	1.14	1.69	0.43	6.90	664 ▲	40	4.5	8.00 ▲	0.36 ▲	0.48▲	White	◆							
IV	66.01	21.10	0.46	0.30	0.15	0.89	2.61	1.09	6.83	779 ▲	56	4.8	10.0▲	0.35▲	0.50▲	Pale Ivory	◆				◆			
WSH	67.90	20.83	0.65	1.03	0.24	0.15	2.15	0.39	5.80	<>	<>	<>	8.90 ■	0.37 ■	0.50 ■	Off white					◆	◆	◆	
LF	68.49	17.87	0.47	0.37	0.17	2.24	1.58	0.27	7.63	609 ▲	59	4.9	5.40 ▲	0.36 ▲	0.51▲	Off White	◆					◆	◆	
ISB	61.30	24.41	2.38	1.20	0.64	0.22	1.91	0.10	7.93	692	45.7	5.33	6.60	0.27	0.37	Buff						◆	◆	
ITB	57.38	22.78	7.37	1.23	0.86	0.57	1.60	0.10	7.66	509.7	45.7	7.5	5.5	0.32	0.46	Red						◆	◆	
FBC	35.92	13.81	0.32	0.11	0.63	23.85	1.64	1.63	<>	<>	<>	<>	<>	0.416	0.525	White	◆				◆			
FBC - HW	33.80	12.32	0.27	0.07	0.67	25.81	1.53	1.24	<>	<>	<>	<>	<>	<>	<>	White	◆							

● Pre-fired to 1120°C

▲ Pre-fired to 1160°C

■ Pre-fired to 1190°C

(This technical information is indicative only)

Casting Slip Recipe	CFE	SP	RC	HWP	IV	WSH	LF	ISB	ITB	FBC & FBC -HW
Litres (approx yield)	60	60	60	60	60	60	60	60	60	114
Plastic Clay (Kg)	100	100	100	100	100	100	100	100	100	225
Sodium Silicate (g) (100 Tw)	120	120	120	120	95	120	105	175	155	510 (75s TW)
Soda Ash (g)	X	50	50	50	40	40	45	50	55	X
Water (litres)	13	10	10	10	11.5	10	10.5	13.5	16	31.82

Suggested Control Parameters	CFE	SP	RC	HWP	IV	WSH	LF	ISB	ITB	FBC
Slip Density (kg/l)	1.78	1.79	1.79	1.79	1.80	1.80	1.80			X
Fluidity (over swing)	310°	320°	320°	320°	315°	310°	305°	280°	280°	X
Thixotropy (1 min standing)	15°	20°	20°	20°	20°	20°	30°			X
Torison Viscometer 11/16" bob 30 swg wire										

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