

# LOW CEMENT CASTABLE

STANDARD NAMES	LC 45	LC-60	LC-70	LC-70 LI	LC 80	LC-90
<b>PHYSICAL PROPERTIES</b>						
Bulk Density ( Kg/m <sup>3</sup> ) Cured & dried @ 110 C for 24 Hr Min	2300	2600	2700	2750	2900	3000
CCS @110°C for 24 Hrs Min	600	650	700	750	800	950
CCS @ 800°C for 24 Hrs Min	750	800	800	800	900	1000
CCS @ 1500°C for 3 Hrs Min	1000	1000	-	-	-	-
CCS @ 1550°C for 3 Hrs Min	-	-	1000	1000	1200	1200
PLC @800°C Max	+/- 0.2 %	+/- 0.2 %	+/- 0.2 %	+/- 0.2 %	+/- 0.2 %	+/- 0.2 %
PLC @ 1500°C Max	+/- 1 %	+/- 1 %	+/- 1 %	+/- 1 %	-	-
PLC @ 1550°C Max	-	-	+/- 1 %	+/- 1 %	+/- 0.8 %	+/- 0.6 %
PCE (ORTON) Min	30	33	33	33	37	37
Service Temp °C Max	1550	1600	1600	1650	1700	1700
Water required for casting ( % by wt)	5-6	5-6	4-5.5	4-5.5	4-5.5	4-5.5
<b>CHEMICAL PROPERTIES</b>						
Al <sub>2</sub> O <sub>3</sub> ( %) Min	45	60	70	70	79	89
Fe <sub>2</sub> O <sub>3</sub> ( %) Max	1.5	1.5	2	1.2	1.5	1