

Chemical Analysis (As Per ED-XRF Method)					
Oxides (wt %)		UMA A+ Grade	UMA A Grade	UMA B+ Grade	UMA B Grade
SiO ₂ (Silicon Dioxide)		48.569	48.559	48.55	48.459
Al ₂ O ₃ (Aluminum Oxide)		37.202	34.212	32.010	31.550
Fe ₂ O ₃ (Iron Oxide)		0.331	0.412	0.463	0.475
TiO ₂ (Titanium Oxide)		1.114	1.153	1.146	1.145
MgO (Magnesium Oxide)		0.116	0.158	0.142	0.141
CaO (Calcium)		0.137	0.252	0.248	0.247
Na ₂ O (Sodium Oxide)		0.034	0.016	0.018	0.017
K ₂ O (Potassium Oxide)		0.066	0.092	0.094	0.095
LOI (Loss On Ignition)		13.431	13.470	13.211	13.200
Brightness		81 ± 1	78 ± 1	72 ± 1	70 ± 1
Whitness		90 ± 1	88 ± 1	83 ± 1	80 ± 1
Physical Properties					
VISUAL APPEARANCE	-	WHITE LUMS	L.PINK LUMS	L>PINK LUMS	-
RESIDUE ON # 240	%	0.5	0.8	1.1	-
SLAKING NATURE	-	FAST	FAST	FAST	-
WATER OF PLASTICITY	%	34.4	35.2	36.2	-
GREEN MOR	Kg/cm ²	3.22 forming sp.press. : 420 Kg/cm ²	3.86 forming sp.press. : 420 Kg/cm ²	3.72 forming sp.press. : 420 Kg/cm ²	-
DRY MOR	Kg/cm ²	6.72 forming sp.press. : 420 Kg/cm ²	8.35 forming sp.press. : 420 Kg/cm ²	7.92 forming sp.press. :420 Kg/cm ²	-
FIRED MOR Temp At 1210 °C	Kg/cm ²	26.61 forming sp.press. : 420 Kg/cm ²	32.95 forming sp.press. : 420 Kg/cm ²	31.80 forming sp.press. : 420 Kg/cm ²	-
FIRED SHRINKAGE Temp At 1210 °C	%	3.96 cycle60 MIN.	4.60 cycle60 MIN.	4.25 cycle60 MIN.	-
FIRED COLOUR	-	L*94.10 ± 1 A*0.68 B* 2.98	L*92.09 ± 1 A*0.84 B* 3.27	L*91.02 ± 1 A*0.79 B* 3.90	-
W. A. Temp At 1210 °C	%	19.45	17.68	16.6	-
WORKABLE ELECTROLYTE	%	N.A.	N.A.	N.A.	-
VISCOSITY (FORD CUP : B-4Q)	(s)	N.A.	N.A.	N.A.	-
DENSITY	(g/c.c.)	N.A.	N.A.	N.A.	-
T.D.S.	ppm	150 (20% aqueous soln.)	170 (20% aqueous soln.)	170 (20% aqueous soln.)	-
ph	-	8.45 (20% aqueous soln.)	8.44 (20% aqueous soln.)	8.84 (20% aqueous soln.)	-