

ANALYSIS CERTIFICATE

QUALITY CONTROL DEPARTMENT



Cement Type: **White portland Cement**

CHEMICAL & PHYSICAL PROPERTIES

CEMENT CHARACTERISTICS		%	STANDARD C 150 Pool Cement	UNITS
ASTM C114 Magnesium Oxide (MgO)		0.37	≤ 6.0	%
ASTM C114 Equivalent Alkalies		0.13	≤ 0.6	%
ASTM C114 Sulfur Tri/oxide (SO ₃)			≤ 3.0 if C3A ≤ 8.0	%
		3.20	≤ 3.5 if C3A > 8.0	%
ASTM C114 Loss on Ignition		2.10	≤ 3.0	%
ASTM C114 Insoluble Residue		0.50	≤ 0.75	%
ASTM C109 Compressive Strength (Mpa)	3 days	17.0 - 20.0	≥ 12.0 (1740)	MPa (psi)
	7 days	25.0 - 50.0	≥ 19.0 (2760)	MPa (psi)
ASTM C191 Time of setting Min. (Vicat test)	Initial Set	85	≥ 45	min
	Final Set	130	≤ 375	min
ASTM C204 Fineness		5500	≥ 2800	cm ² /g
ASTM C151- Autoclave Expansion (%)		0.055	≤ 0.8	%
ASTM C185- Air Content		5.75	≤ 12.0	%
Whit.(CIE 1931)	L,a,b	92.3		
		2.94		
		12.53		%



Approval by:
LAB. & Q.C.