

### Portland Pozzolana Cement

Chemical Analysis	Result	Requirements
Loss on Ignition	%24.0	-
SiO <sub>2</sub>	%6.2	-
Al <sub>2</sub> O <sub>3</sub>	%3.6	-
Fe <sub>2</sub> O <sub>3</sub>	%59.6	-
CaO	%1.8	Max = 5
MgO	%2.5	Max = 4
SO <sub>3</sub>	%0.03	Max = 0.1
Cl	-	-
Insoluble Residue	%1.50	-
Free CaO	%1.0	-
Alkalies (Na <sub>2</sub> O% + 0.658 K <sub>2</sub> O%)	-	-
C <sub>3</sub> S	-	-
C <sub>2</sub> S	-	-

### Physical Tests

Component	Result	Requirements
Fineness /Blaine	Minute 180	Max = 60
Fineness /Residue On Sieve 90µ	Hour 3:3	Max = 7
Setting Time / Intial	210	Min = 100
Setting Time / Final	300	Min = 175
Compressive Strength /3 Days	Kg/cm <sup>2</sup> 430	Min = 300
Compressive Strength /7 Days	%0.08	Mix = 0.8
Compressive Strength /28 Days		
Soundness / Autoclave Expansion		