



Report of Cement Analysis
White Portland Cement

September 2024

CHEMICAL ANALYSIS

PARAMETER	RESULTS	SPECIFICATIONS
Silicon Dioxide (SiO ₂)	22.65 %	
Aluminum Oxide (Al ₂ O ₃)	2.28 %	6.0 % Maximum
Ferric Oxide (Fe ₂ O ₃)	0.26 %	6.0 % Maximum
Calcium Oxide (CaO)	67.44 %	
Magnesium Oxide (MgO)	0.23 %	6.0 % Maximum
Sulfure Trioxide	3.32 %	3.5 % Maximum
Loss On Ignition	2.85 %	3.0 % Maximum
Insoluble Residue	0.15 %	0.75 % Maximum
Alkalies as Na ₂ O	0.27 %	
Tricalcium Silicate (C ₃ S)	77.19 %	
Tricalcium Aluminate (C ₃ A)	5.60 %	
Free Lime	2.86 %	
Whiteness Hunter	93.14 %	

PHYSICAL ANALYSIS

PARAMETER	RESULTS	SPECIFICATIONS
Blaine Surface, m ² /Kg	422	280 Minimum
Vicat Set, minutes		
Initial	140	Not less than 45
Final	190	Not more than 375
Air Content	5.20 %	12 % Maximum
Autoclave Expansion	0.02 %	0.8 % Maximum
Compressive Strength, p.s.i (MPa)		
1 Day	3538(26.3)	
3 Days	5235 (36.5)	10.0 MPa Minimum
7 Days	6554 (44.7)	17.0 MPa Minimum
28 Days	9150 (67.6)	

The cement covered by this report complies with the current specifications of ASTM C-150