



Report of Cement Analysis
White Portland Cement

Date: November 2021

CHEMICAL ANALYSIS

PARAMETER	RESULTS	SPECIFICATIONS
Silicon Dioxide (SiO ₂)	22.29 %	
Aluminum Oxide (Al ₂ O ₃)	2.28 %	6.0 % Maximum
Ferric Oxide (Fe ₂ O ₃)	0.25 %	6.0 % Maximum
Calcium Oxide (CaO)	66.75 %	
Magnesium Oxide (MgO)	0.26 %	6.0 % Maximum
Sulfure Trioxide	3.21 %	3.5 % Maximum
Loss On Ignition	2.94 %	3.0 % Maximum
Insoluble Residue	0.16 %	0.75 % Maximum
Alkalies as Na ₂ O	0.28 %	
Tricalcium Silicate (C ₃ S)	77.44 %	
Tricalcium Aluminate (C ₃ A)	5.62 %	
Fee Lime	3.07 %	
Whiteness Hunter	93.12 %	

PHYSICAL ANALYSIS

PARAMETER	RESULTS	SPECIFICATIONS
Blaine Surface, m ² /Kg	434	280 Minimum
Vicat Set, minutes		
Initial	130	Not less than 45
Final	190	Not more than 375
Air Content	5.0 %	12 % Maximum
Autoclave Expansion	0.04 %	0.8 % Maximum
Compressive Strength, p.s.i (MPa)		
1 Day	3830 (26.4)	
3 Days	5220 (36.0)	10.0 MPa Minimum
7 Days	6810 (48.0)	17.0 MPa Minimum
28 Days	9560	

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