



Report of Cement Analysis
White Portland Cement

Date: August 2021

CHEMICAL ANALYSIS

PARAMETER	RESULTS	SPECIFICATIONS
Silicon Dioxide (SiO ₂)	22.48 %	
Aluminum Oxide (Al ₂ O ₃)	2.29 %	6.0 % Maximum
Ferric Oxide (Fe ₂ O ₃)	0.26 %	6.0 % Maximum
Calcium Oxide (CaO)	67.79 %	
Magnesium Oxide (MgO)	0.30 %	6.0 % Maximum
Sulfure Trioxide	3.29 %	3.5 % Maximum
Loss On Ignition	2.95 %	3.0 % Maximum
Insoluble Residue	0.17 %	0.75 % Maximum
Alkalies as Na ₂ O	0.27 %	
Tricalcium Silicate (C ₃ S)	75.88 %	
Tricalcium Aluminate (C ₃ A)	5.63 %	
Fee Lime	2.80 %	
Whiteness Hunter	93.27 %	

PHYSICAL ANALYSIS

PARAMETER	RESULTS	SPECIFICATIONS
Blaine Surface, m ² /Kg	455	280 Minimum
Vicat Set, minutes		
Initial	126	Not less than 45
Final	185	Not more than 375
Air Content	5.0 %	12 % Maximum
Autoclave Expansion	0.03 %	0.8 % Maximum
Compressive Strength, p.s.i (MPa)		
1 Day	3680 (26.8)	
3 Days	5520 (37.0)	10.0 MPa Minimum
7 Days	6830 (48.0)	17.0 MPa Minimum
28 Days	9540	

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