



Report of Cement Analysis  
White Portland Cement

Date: July 2020

## CHEMICAL ANALYSIS

PARAMETER	RESULTS	SPECIFICATIONS
Silicon Dioxide (SiO <sub>2</sub> )	22.3 %	
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	2.30 %	
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.25 %	
Calcium Oxide (CaO)	67.25 %	
Magnesium Oxide (MgO)	0.28 %	6.0 % Maximum
Sulfure Trioxide	3.28 %	3.5 % Maximum
Loss On Ignition	2.55 %	3.0 % Maximum
Insoluble Residue	0.18 %	0.75 % Maximum
Alkalies as Na <sub>2</sub> O	0.27 %	
Tricalcium Silicate (C <sub>3</sub> S)	78.10 %	
Tricalcium Aluminate (C <sub>3</sub> A)	5.67 %	
Fee Lime	2.65 %	
Whiteness Hunter	93.01 %	

## PHYSICAL ANALYSIS

PARAMETER	RESULTS	SPECIFICATIONS
Blaine Surface, m <sup>2</sup> /Kg	457	280 Minimum
Vicat Set, minutes		
Initial	121	Not less than 45
Final	177	Not more than 375
Air Content	5.0 %	12 % Maximum
Autoclave Expansion	0.05 %	0.8 % Maximum
Compressive Strength, p.s.i (MPa)		
1 Day	3886 (26.8)	
3 Days	5626 (38.8)	10.0 MPa Minimum
7 Days	7120 (49.1)	17.0 MPa Minimum
28 Days	9380	

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