

FEDERAL WHITE CEMENT INC.

October 1, 2020

LABORATORY TEST REPORT

Sample Source:

Portland Type I

August Inventory

ASTM C150 STANDARD REQUIREMENTS Tables 1 and 3

C	HEMICAL, %		PHYSICAL			
Item	Spec. Limit	Value	ltem Spec. Limit	Value		
SiO ₂	Α	21.52	Air, vol. % 12 ma	x 8.0		
Al_2O_3	Α	4.20				
Fe ₂ O ₃	Α	0.00	Fineness			
CaO	Α	66.48	Blaine, m ² /kg 260 mir	n 487		
MgO	6.0 max.	0.98	% Passing 325	98		
SO₃	3.5 max. ^J	2.82				
Ign. Loss	3.5 max. ^k	3.05	Autoclave %	Autoclave %		
Na2O	Α	0.11	Expansion 0.80 ma	x. 0%		
K20	Α	0.39				
Insol. Res.	1.50 max.	0.54	Vicat Set Time, minutes			
Eq. Alkali %		0.37	Initial Not less than 45 mi	in. 107		
CO2 %	Α	0.77				
Limestone	5.0% max.	1.94	Not more than 375 mi	Not more than 375 min.		
%CaCO3 of	Limestone	90.20				
5. 86				Compressive Strength		
Potential:	4		PSI	Mpa		
C₃S	Α	68	1-day ^A 2464	17.0		
C ₂ S	Α	10	3-day 1740 min 3975	27.4		
C ₃ A	Α	11	7-day 2760 min 4489	31.0		
C₄AF	Α	0	28-day ^A 5876	40.5		

A Not Applicable

We certify that the above-described cement, at the time of shipment, meets the chemical and physical requirements of the current applicable specification ASTM C150 and current Federal specifications.

We are not responsible for improper use or workmanship

J When C3A is more than 8%

k With limestone addition, otherwise limit 3%