



Capitol Cement
 11551 Nacogdoches Rd.
 San Antonio, TX 78217

Type I Cement - C 150/C 150M

Date: September 9, 2024

Production Period:

Beginning August 1, 2024

Ending August 31, 2024

CHEMICAL			PHYSICAL		
Item	Spec. Limit	Test Result	Item	Spec. Limit	Test Result
SiO ₂ (%)	A	<u>20.4</u>	Air Content of Mortar (volume %)	12 <i>maximum</i>	<u>9.0</u>
Al ₂ O ₃ (%)	A	<u>5.6</u>	Blaine Fineness (m ² /kg)	260 <i>minimum</i>	<u>412</u>
Fe ₂ O ₃ (%)	A	<u>1.8</u>	Autoclave Expansion (%)		<u> </u>
CaO (%)	A	<u>66</u>	ASTM C1038		<u>0.005</u>
MgO (%)	6.0 <i>maximum</i>	<u>1.0</u>	Time of Setting (minutes)		
SO ₃ (%)	3.5 <i>D</i>	<u>4.3</u>	Vicat, Initial	45	<u>85</u>
Na ₂ O (%)	A	<u>0.09</u>	Vicat, Final	375	<u>235</u>
K ₂ O (%)	A	<u>0.54</u>	Compressive Strength		
Equivalent alkalis (%)		<u>0.44</u>	1 Day (psi)	A	<u>2,070</u>
	<i>minimum</i>	<u>0.43</u>	3 Day (psi)	<i>minimum (1740)</i>	<u>4,220</u>
	<i>maximum</i>	<u>0.45</u>	7 Day (psi)	<i>minimum (2760)</i>	<u>5,410</u>
Ignition Loss (%)	3.5 <i>maximum</i>	<u>2.9</u>	28 Day (psi) (Jul)	A	<u>6,140</u>
Insoluble Residue (%)	1.5 <i>maximum</i>	<u>0.51</u>			
Limestone (%)	5.0 <i>maximum</i>	<u>2.78</u>			
CO ₂ (%)	A	<u>1.18</u>			
CaCO ₃ in Limestone (%)		<u>78</u>			
C ₃ A (%)	A	<u>12</u>			
C ₃ S (%)	A	<u>60</u>			
C ₂ S (%)	A	<u>13</u>			
C ₄ AF (%)	A	<u>5</u>			

A Not Applicable

D Note D additional information upon request.

We certify that the above cement, at the time of shipment meets the chemical and physical requirements of the current ASTM C 150 and AASHTO M 85 specifications. The above data represents the averages of representative samples from production. This product is made in the U.S.A.

Douglas Conroy, Chief Chemist