



Capitol Cement
 11551 Nacogdoches Rd.
 San Antonio, TX 78217

Type III 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
SiO2 (%)	A	<u>19.9</u>	Air Content of Mortar (volume %)	12 maximum	<u>9.2</u>
Al2O3 (%)	A	<u>5.6</u>	Blaine Fineness (m2/kg)		<u>641</u>
Fe2O3 (%)	A	<u>1.8</u>	Autoclave Expansion (%)		<u> </u>
CaO (%)	A	<u>65</u>	ASTM C1038	max 0.02%	<u>0.002</u>
MgO (%)	6.0 maximum	<u>1.0</u>	Time of Setting (minutes)		
SO3 (%)	4.5 D	<u>5.5</u>	Vicat, Initial	Not less than 45	<u>60</u>
Na2O (%)	A	<u>0.10</u>	Vicat, Final	Not more than 375	<u>170</u>
K2O (%)	A	<u>0.50</u>	Compressive Strength		
Equivalent alkalis (%)		<u>0.43</u>	1 Day (psi)	minimum (1740)	<u>3,430</u>
	minimum	<u>0.43</u>	3 Day (psi)	minimum (3480)	<u>4,930</u>
	maximum	<u>0.43</u>	7 Day (psi)	A	<u>5,360</u>
Ignition Loss (%)	3.0 maximum	<u>2.8</u>	28 Day (psi) (Jul)	A	<u>7,200</u>
Insoluble Residue (%)	1.5 maximum	<u>0.89</u>			
Limestone (%)	A	<u> </u>			
CO2 (%)	A	<u> </u>			
CaCO3 in Limestone (%)		<u>78</u>			
C3A (%)	15 maximum	<u>12</u>			
C3S (%)	A	<u>55</u>			
C2S (%)	A	<u>15</u>			
C4AF (%)	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 M85 specifications. The above data represents the averages of representative samples from production.

Douglas Conroy, Chief Chemist