

Capitol Cement 11551 Nacogdoches Rd. San Antonio, TX 78217

Type I L (10) Cement Ecoment Spec

Date: April 11, 2024

Production Period:

Beginning March 1, 2024
Ending March 31, 2024

CHEMICAL			PHYSICAL		
Item	Spec. Limit	Test Result	Item	Spec. Limit	Test Result
SiO2 (%)		19.5	Air Content of Mortar (volume %	%) 12 max	8.2
Al2O3 (%)		5.4	·	•	
Fe2O3 (%)		1.8	Blaine Fineness (m2/kg)	Α	431
CaO (%)		67			
MgO (%)		1.0	ASTM C1038	0.020%	0.005
SO3 (%)	3.0% max (b)	4.1			
			Density		3.03
Na2O (%)	Α	0.08			
K2O (%)	Α	0.55	Time of Setting (minutes)		
Equivalent alkalis (%)		0.45	Vicat, Initial	Not less than 45	83
	minimum	0.41	vicat, illital	Not 1033 than 40	
	maximum	0.48	Vicat, Final	Not more than 420	241
Ignition Loss (%)	10% max	6.5	Compessive Strength		
Class F Fly Ash (%)			1 Day (psi)	Α	2,300
CaO % in Ash	Α		3 Day (psi)	minimum (1890)	4,200
Limestone (%)	10% +/- 2.5%	11.17		, ,	
CO2 (%)		4.71	7 Day (psi)	minimum (2900)	5,100
CaCO3 in Limestone (%)		90	28 Day (psi) (Feb)	minimum (3620)	5,870

(A) Not Applicable; (b) It is permissible to exceed the limit for SO3, provided it has been demonstrated by Test Method C-1038 that the cement will not develop expansion exceeding 0.020% at 14 days.

We certify that the above cement, at the time of shipment meets the chemical and physical requirements of the current ASTM C 595, C 1012, C 227 specifications. The above data represents the averages of representative samples from production.

Douglas Conroy, Chief Chemist