

TEXAS LEHIGH CEMENT Co. LP

P.O. Box 610 Buda, Texas 78610 Sales (512) 295-6111 Customer Service (800) 252 - 5408

Plant: Buda

701 Cement Plant Road Buda, Texas, 78610

Contact: Patrick E. Hoffman Phone: (512) 295-9241

Cement Type:

 Report Date:
 07/10/22

 Production Period:
 Star
 06/01/22

Ends 06/30/22 **Tracking No.** TLCBU 0000073

MILL TEST REPORT AASHTO ACCREDITED

Physical Test ASTM C-150

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ltem		Spec. Limit		est sult	
Air content of mortar (volume %)	ASTM C-185	12 max	6		
Blaine fineness (m ² /kg)	ASTM C-204	260 min.	378		
Mesh 325 (45 microns) % through	ASTM C-430	A - B	93	3.2	
Autoclave expansion (%)	ASTM C-151	0.80 max.	0.00		
Time of setting - Vicat test (minutes)					
Initial - Not less than or More than	ASTM C - 191	45 - 375	110		
Compressive strength					
1 day, Minimum MPa (psi)	ASTM C-109	A - B	18.4	(2670)	
3 day, Minimum MPa (psi)	ASTM C-109	12 (1740)	28.7	(4150)	
7 day, Minimum MPa (psi)	ASTM C -109	19 (2760)	34.3	(4980)	
28 day, Minimum MPa (psi) (ортюмац	ASTM C-109	A - B - D	41.8	(6060)	
False Set (OPTIONAL)	ASTM - C451	50 min.	7	75	
Mortar Expansion Bars	ASTM C-1038	0.020% Max ^E		A	

Potential Compounds (%) ^C					
ASTM C - 150 Annex A1	Finis	shed cement	Base	cement	
C ₃ S	A	56	C ₃ S	58	
C ₂ S	A	16	C ₂ S	17	
C₃A	A	12	C ₃ A	12	
C₄AF	A	6	C ₄ AF	6	
C ₃ S + 4.75 x C ₃ A	A	112			

Chemical analysis % - ASTM C-114

Official dialysis 70 - AOTIN O-114			
ltem	Spec. Limit	Test Results	
MgO (%)	6.0 max.	1.3	
SO ₃ (%)	3.5 max. ^E	3.2	
Loss on Ignition (%)	3.5 max.	2.3	
Insoluble Residue (%)	1.5 max.	0.59	
CO ₂ (%)	A	1.3	
Limestone (%)	5.0 max.	3.2	
CaCO ₃ in Limestone (%)	70 min	80.7	
Total Alkali as Na₂O	A	0.77	
	Minimum	0.77	
	Maximum	0.89	

Limestone Additions				
Туре		Limestone		
% Addition	5% Max	3.2		
SiO ₂ (%)	Α	10.47		
Al ₂ O ₃ (%)	A	2.86		
Fe ₂ O ₃ (%)	A	0.95		
CaO (%)	Α	46.90		
SO ₃ (%)	A	1.86		

A Not Applicable

B Limit not specified by purchaser. Test result provided for information only.

C Adjusted (ASTM Annex A, point A 1.6)

D Test Result of prior Month

E ASTM C-150 Table 1 Note D permits to exceed SO3 content provided it has been demonstrated to meet what is established under the Test Method ASTM C-1038 at 14 days

- alwee. Half

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of the current applicable specifications ASTM C150 and AASHTO M85. Cement analysis are reported as oxides, in accordance with ASTM Test Method C114. Silicon dioxide (SiO2) is present in the combined state as the compounds Tricalcium silicate and dicalcium silicate, and not crystalline silica. The above data represents the average of mill samples from the production stream. Inorganic processing additions have been interground in accordance with ASTM C-465. The average composition of this processing addition can be found listed above. Compliance documents for this processing addition are available upon request. We are not responsible for improper use or workmanship.

QC Manager: