



TEXAS-LEHIGH CEMENT COMPANY



Evaluation tests for:
TLC API Class C Well Cement - Buda, Texas Plant

Typical Performance Data: Grind # 190501 Prod date: 1 - 30 May, 2019 Silo No. 7 - 16

Chemical Analysis(%) (ASTM C114)

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	SO ₃	LOI	Na ₂ O	K ₂ O	Na ₂ O Equiv.	Insol. Residue
21.1	4.2	4.8	62.7	1.1	2.7	1.4	0.12	0.64	0.54	0.10

API Spec., max., % 6.0 3.5 3.5 1.5

Calculated Compounds(%) (API Spec. 10A, Table 1)

C3S	C2S	C3A	C4AF+2C3A
52	21	2.9	15
NR	NR	3 Max.	24 Max.

Physical Parameters

Fineness

Blaine-m²/kg (ASTM C204) 427 API Spec.--400 min.
-325(%) (ASTM C430) 98.9

Thickening Time and Compressive Strength(56 % H₂O - neat slurry)

API Schedule 4-Csg Depth ft. 6000 Bottom Hole Circulation Temp 113 Deg F H₂O 6.3 gal/sk

Initial (Bc)	Consistency					Thickening Time		Compressive Strength 8 hr/24hr - atmos. press.	
	15 min. (Bc)	30 min. (Bc)	60 min. (Bc)	70 Bc (min.)	100 Bc (min.)	100° F (PSI)	100° F (PSI)		
2	4	4	12	110	120	810	2090		
API Spec.	30 Bc max. in 15-30 min. stirring period					90 minute min.	300 PSI min.	2000 PSI min.	

The cement presented meets all Spec. 10A requirements for API Class C

All well cement tests are performed according to API Spec. 10A

Calculated compounds are determined in accordance with ASTM C-114 and C-150

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QC Manager

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