



TEXAS-LEHIGH CEMENT COMPANY



Evaluation tests for:

TLC API Class C Well Cement - Buda, Texas Plant

Typical Performance Data: Grind # 181201 Prod date: 1 - 31 December, 2018 Silo No. 7

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	
20.9	4.0	4.6	63.4	1.1	2.9	1.4	0.12	0.65	0.55	0.1	
API Spec., max., %				6.0	3.5	3.0					0.75

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

C3S	C2S	C3A	C4AF+2C3A
57	17	2.9	14.1
nr	nr	3 Max.	24 Max.

Physical Parameters

Fineness

Blaine-m²/kg (ASTM C204) 428 API Spec.--400 min.
 -325(%) (ASTM C430) 99.1

Thickening Time and Compressive Strength(38% H₂O - neat slurry)

API Schedule	Depth ft.	Bottom Hole Circulation Temp	H ₂ O	Compressive Strength		
4-Csg	6000	113 Deg F	6.3 gal/sk	8 hr/24hr - atmos. press.		
Consistency			Thickening Time		100° F (PSI)	
Initial (Bc)	15 min. (Bc)	30 min. (Bc)	60 min. (Bc)	70 Bc (min.)	100 Bc (min.)	100° F (PSI)
3	5	6	10	119	131	915 2338

API Spec. 30 Bc max. 90 minute min. 300 PSI min. 2000 PSI min.
 in 15-30 min. stirring period

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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