



TEXAS-LEHIGH CEMENT COMPANY



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

Typical Performance Data: Grind # 180701 Prod date: 1 - 31 July, 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
21.2	4.2	4.8	62.5	1.1	3.0	0.7	0.1	0.6	0.6	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
50	23	3	15
nr	nr	3 Max.	24 Max.

Physical Parameters

Fineness
 Blaine-m²/kg (ASTM C204) 432 API Spec.--400 min.
 -325(%) (ASTM C430) 99.2

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

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

Consistency						Thickening Time		Compressive Strength 8 hr/24hr - atmos. press.	
Initial (Bc)	15 min. (Bc)	30 min. (Bc)	60 min. (Bc)	70 Bc (min.)	100 Bc (min.)	100° F (PSI)	100° F (PSI)		
3	3	3	6	87	97	969	2090		
30 Bc max. in 15-30 min. stirring period						90 minute min.		300 PSI min. 2000 PSI min.	

API Spec.

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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