



TEXAS-LEHIGH CEMENT COMPANY



Evaluation tests for:

TLC API Class A Well Cement - Buda, Texas Plant

Typical Performance Data: Grind # 190101 Prod date: 1 - 31 January, 2019 Silo No. 14

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	
20.6	5.3	2.4	65.0	1.2	3.1	2.2	0.2	0.9	0.8	0.66	
API Spec., max., %				6.0	3.5	3.0					0.75

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

C3S	C2S	C3A	C4AF
60	14	10	7

Physical Parameters

Fineness

Blaine-m²/kg (ASTM C204) 284 API Spec.--280 min.
M-325(% Passing) (ASTM C430) 78.1

Thickening Time and Compressive Strength(46% H₂O - neat slurry)

API Schedule	Depth ft.	Bottom Hole Circulation Temp	H ₂ O	Compressive Strength	
4-Csg	6000	113 Deg F	5.19 gal/sk	8 hr/24hr - atmos. press. PSI	
Consistency Bc			Thickening Time		
Initial	15 Min.	30 Min	60 Min	70 Bc	100 Bc
4	6	7	25	85	95
API Spec.			30 Bc max. in 15-30 min. stirring period	90 minutes min.	250 PSI min. 1800 PSI min.

The above Class A cement meets all API specifications for API Class A (O)

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

V Gonzalez-Torres

QC Manager

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