



TEXAS-LEHIGH CEMENT COMPANY



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

Typical Performance Data: Grind # 4/1/2020 Prod date: 1 - 30 April, 2020 Silo No. 14, 9

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	
20.2	5.3	2.5	64.3	1.2	3.2	2.6	0.1	0.8	0.7	0.48	
API 10A Spec., max.,				6.0	3.5	3.5					1.5

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

C ₃ S	C ₂ S	C ₃ A	C ₄ AF
60	13	10	7

Physical Parameters

Fineness

Blaine-m²/kg (ASTM C204) 304 API 10A Spec. -- 280 min.
M-325(% Passing) (ASTM C430) 79.9

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				100 °F (8 hr)	100 °F (24 hr)
Initial	15 Min.	30 Min	60 Min	70 Bc	100 Bc	1270	3510
11	15	16	24	99	114		

API Spec. 30 Bc max.
 in 15-30 min.
 stirring period >= 90 min 250 PSI min. 1800 PSI min.

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

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

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