



# TEXAS-LEHIGH CEMENT COMPANY



Evaluation tests for:

TLC API Class A Well Cement - Buda, Texas Plant

Typical Performance Data: Grind # 201101 Prod date: 1 - 30 November 2020 Silo No. 14

### Chemical Analysis(%) (ASTM C114)

SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	SO <sub>3</sub>	LOI	Na <sub>2</sub> O	K <sub>2</sub> O	Na <sub>2</sub> O Equiv.	Insol. Residue	
21.1	5.7	2.4	64.9	1.2	3.5	1.2	0.2	1.0	0.9	0.50	
API 10A Spec., max.,				6.0	3.5	3.5					1.5

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

C <sub>3</sub> S	C <sub>2</sub> S	C <sub>3</sub> A	C <sub>4</sub> AF
52	21	11	7

### Physical Parameters

#### Fineness

Blaine-m<sup>2</sup>/kg (ASTM C204) 291 API 10A Spec. -- 280 min.  
M-325(% Passing) (ASTM C430) 78.8

### Thickening Time and Compressive Strength(46% H<sub>2</sub>O - neat slurry)

API Schedule	Depth ft.	Bottom Hole	Circulation Temp	H <sub>2</sub> 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	1720	3340	
10	10	14	30	88	99			
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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