



# TEXAS-LEHIGH CEMENT COMPANY



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

Typical Performance Data: Grind # 0 -- A Prod date: 1-31 October 2021 Silo No. 14,12

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

<u>SiO2</u>	<u>Al2O3</u>	<u>Fe2O3</u>	<u>CaO</u>	<u>MgO</u>	<u>SO3</u>	<u>LOI</u>	<u>Na2O</u>	<u>K2O</u>	<u>Na2O Equiv.</u>	<u>Insol. Residue</u>	
19.5	5.3	2.3	64.3	1.2	3.6	2.2	0.2	1.0	0.9	0.53	
API 10A Spec., max.,				6.0	3.5	3.5					1.5

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

<u>C<sub>3</sub>S</u>	<u>C<sub>2</sub>S</u>	<u>C<sub>3</sub>A</u>	<u>C<sub>4</sub>AF</u>
64	8	10	7

### Physical Parameters

#### Fineness

Blaine-m<sup>2</sup>/kg (ASTM C204) 323 API 10A Spec. -- 280 min.  
M-325(% Passing) (ASTM C430) 75.7

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

API Schedule	Depth ft.	Bottom Hole Circulation Temp	H2O	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	100 °F (8 hr)	100 °F (24 hr)
9	10	11	14	112	125	1260	3000

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

QC Manager

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