



**TEXAS-LEHIGH CEMENT COMPANY**



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

Typical Performance Data: Grind # 210601 -- A Prod date: 1-30 June 2021 Silo No. 14, 9

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>	
20.3	5.2	2.4	65.1	1.1	3.3	1.4	0.2	1.0	0.8	0.39	
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>
63	11	10	7

Physical Parameters

Fineness

Blaine-m2/kg (ASTM C204) 286 API 10A Spec. -- 280 min.  
M-325(% Passing) (ASTM C430) 77.3

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		100 °F (8 hr)	100 °F (24 hr)	
Initial	15 Min.	30 Min	60 Min	70 Bc	100 Bc	1170	2930	
3	3	3	7	96	105			

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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QC Manager

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