



# TEXAS-LEHIGH CEMENT COMPANY



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

Typical Performance Data: Grind # 230224 -- A Prod date: 1-28 February 2023 Silo No. 12, 9

### 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	
20.5	5.2	2.8	62.9	1.3	3.4	1.3	0.1	0.9	0.8	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	20	9	9

### Physical Parameters

#### Fineness

Blaine-m<sup>2</sup>/kg (ASTM C204) 295 API 10A Spec. -- 280 min.  
M-325(% Passing) (ASTM C430) 76.7

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

API Schedule 4-Csg Depth ft. 6000 Bottom Hole Circulation Temp 113 Deg F H<sub>2</sub>O 5.19 gal/sk

Consistency Bc		Thickening Time				Compressive Strength 8 hr/24hr - atmos. press. PSI	
Initial	15 Min.	30 Min	60 Min	70 Bc	100 Bc	100 °F (8 hr)	100 °F (24 hr)
8	12	14	21	99	111	1340	3160
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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