



# TEXAS-LEHIGH CEMENT COMPANY

Evaluation tests for:

TLC API Class C Well Cement - Buda, Texas Plant

Typical Performance Data: Grind # 201001 Prod date 1 - 26 October, 2020. Silo No. 7 - 16

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

<u>SiO<sub>2</sub></u>	<u>Al<sub>2</sub>O<sub>3</sub></u>	<u>Fe<sub>2</sub>O<sub>3</sub></u>	<u>CaO</u>	<u>MgO</u>	<u>SO<sub>3</sub></u>	<u>LOI</u>	<u>Na<sub>2</sub>O</u>	<u>K<sub>2</sub>O</u>	<u>Na<sub>2</sub>O Equiv.</u>	<u>Insol. Residue</u>
20.8	3.9	5.6	63.0	1.0	2.9	1.1	0.10	0.74	0.59	0.13
API Spec., max., %				6.0	3.5	3.5				1.5

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

<u>C3S</u>	<u>C2S</u>	<u>C3A</u>	<u>C4AF+2C3A</u>
56	17	0.9	18
NR	NR	3 Max.	24 Max.

### Physical Parameters

#### Fineness

Blaine-m<sup>2</sup>/kg (ASTM C204) 425 API Spec.--400 min.  
 -325(%) (ASTM C430) 99.3

### Thickening Time and Compressive Strength(56 % H<sub>2</sub>O - neat slurry)

API Schedule		Depth ft.	Bottom Hole Circulation Temp		H <sub>2</sub> O		
4-Csg		6000	113 Deg F		6.3 gal/sk		
<u>Consistency (Bc)</u>			<u>Thickening Time (Bc)</u>		Compressive Strength 8 hr/24hr - atmos. press. 100° F (P: 100° F (PSI))		
Bc	<b>Initial</b>	<b>15</b>	<b>30</b>	<b>60</b>		<b>70</b>	<b>100</b>
Minutes	10	10	10	10		147	163
					<b>880</b>	<b>2540</b>	

API Spec.                      30 Bc max.    90 minute min.                      300 PSI min.    2000 PSI min.  
    in 15-30 min.  
    stirring period

The cement presented meets all Spec. 10A requirements for API Class C  
 All well cement tests are performed according to API Spec. 10A  
 Calculated compounds are determined in accordance with ASTM  
 C-114 and C-150

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