



TEXAS-LEHIGH CEMENT COMPANY

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

Typical Performance Data: Grind # 200601 Prod date 1 - 30 June, 2020. Silo No. 7 - 16

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>	
20.5	4.0	4.9	64.2	1.0	2.9	1.2	0.14	0.72	0.00	0.31	
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>
64	11	2.1	19
NR	NR	3 Max.	24 Max.

Physical Parameters

Fineness

Blaine-m2/kg (ASTM C204) 434 API Spec.--400 min.
-325(%) (ASTM C430) 99.0

Thickening Time and Compressive Strength(56 % H2O - neat slurry)

		<u>API Schedule</u>	<u>Depth ft.</u>	<u>Bottom Hole Circulation Temp</u>		<u>H2O</u>		
		4-Csg	6000	113 Deg F		6.3 gal/sk		
		<u>Consistency (Bc)</u>			<u>Thickening Time (Bc)</u>		<u>Compressive Strength</u>	
<u>Bc</u>	<u>Initial</u>	<u>15</u>	<u>30</u>	<u>60</u>	<u>70</u>	<u>100</u>	8 hr/24hr - atmos. press.	
<u>Minutes</u>	10	13	13	16	108	125	100° F (P); 100° F (PSI)	
							<u>1170</u>	<u>2690</u>
API Spec.	30 Bc max. in 15-30 min. stirring period			90 minute min.		300 PSI min. 2000 PSI min.		

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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