



TEXAS-LEHIGH CEMENT COMPANY

Evaluation tests for:

TLC API Class C Well Cement - Buda, Texas Plant

Typical Performance Data: Grind # 201101 Prod date 1 - 30 November, 2020. Silo No. 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>
21.3	4.0	5.1	63.8	1.0	2.7	1.0	0.11	0.68	0.57	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	19	2.0	20
NR	NR	3 Max.	24 Max.

Physical Parameters

Fineness

Blaine-m2/kg (ASTM C204) 421 API Spec.--400 min.
 -325(%) (ASTM C430) 99.2

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

API Schedule 4-Csg Depth ft. 6000 Bottom Hole Circulation Temp 113 Deg F H2O 6.3 gal/sk

		<u>Consistency (Bc)</u>			<u>Thickening Time (Bc)</u>		<u>Compressive Strength 8 hr/24hr - atmos. press. 100° F (P); 100° F (PSI)</u>	
Bc	Initial	15	30	60	70	100		
Minutes	13	13	13	13	140	151	860 2450	

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

Victor Gonzalez-Torres

 QC Manager

Phone: Lab (512) 295-9241; Sales (512) 295-9202, Shipping (512) 295-9222, www.texaslehigh.com/products for SDS
 PO Box 610, Buda, Texas 78610 : 701 Cement Plant Road