



TEXAS-LEHIGH CEMENT COMPANY



Evaluation tests for:

TLC API 10A Class H Well Cement - Buda, Texas Plant

Typical Performance Data: Grind # 201001 Prod date: 1 - 31 October, 2020 Silo No. 2,6,8

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>
20.9	3.6	6.3	63.3	1.0	3.0	1.2	0.1	0.6	0.55	0.13
API Spec., max., %			6.0	3.0	3.0				0.75	0.75

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

	<u>C₃S</u>	<u>C₂S</u>	<u>C₃A</u>	<u>[C₄AF+ 2(C₃A)]</u>
API 10A Spec. (%)	57	17	0	17
	48 - 65		3 Max.	24 Max.

Physical Parameters

<u>Fineness</u>				API Spec.
Blaine-m ² /kg (ASTM C204)	<u>268</u>		% Free Fluid @ 38% H ₂ O	<u>2.9</u> 5.9% Max.
-325%(ASTM C430)	<u>76.4</u>		% Free Lime	<u>0.31</u>

Thickening Time and Compressive Strength (38% H₂O - neat slurry)

API Schedule	Depth ft.	Bottom Hole Circulation Temp	H ₂ O
5-Csg	8000	125 Deg F	4.29 gal/sk

Consistency (Bc)	Thickening Time (Minutes)						Compressive Strength (PSI) 8 hr - atmos. press.	
	Initial	15 min.	30 min.	60 min.	70 Bc.	100 Bc.	100° F	140° F
	15	15	17	26	87	98	780	1940
API 10A Spe	30 Bc max. in 15-30 min. stirring period				90 minute min. 120 minute max.		300 PSI min. 1500 PSI min.	

The above Class H cement meets all current API 10A specifications for Class H (HSR) Cement

All well cement tests are performed according to current API 10A Spec.

V Gonzalez-Torres

QC Manager

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