



# TEXAS-LEHIGH CEMENT COMPANY



Evaluation tests for:  
TLC API 10A Class H Well Cement - Buda, Texas Plant

Typical Performance Data: Grind # 230407-H Prod date: April 01-30, 2023 Silo No. 8,2,6

### 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
20.9	3.4	5.9	61.5	1.6	2.6	0.5	0.1	0.5	0.47	0.12
API Spec., max., %				6.0	3.0	3.0			0.75	0.75

### 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+ 2(C <sub>3</sub> A) ]
API 10A Spec. (%)	52 48 - 65	20	0 3 Max.	18 24 Max.

### Physical Parameters

Fineness Blaine-m <sup>2</sup> /kg (ASTM C204)	<u>257</u>	% Free Fluid @ 38% H <sub>2</sub> O	<u>3.8</u>	API Spec. 5.9% Max.
-325(%) (ASTM C430)	<u>76.5</u>	% Free Lime	<u>0.47</u>	

### Thickening Time and Compressive Strength (38% H<sub>2</sub>O - neat slurry)

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

Consistency (Bc)	70 Bc		100 Bc		Compressive Strength (PSI) 8 hr - atmos. press.		
	70 Bc	100 Bc	70 Bc	100 Bc			
Initial	15 min.	30 min.	60 min.	70 Bc	100 Bc	100° F	140° F
14	16	17	23	105	114	570	1810
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.

QC Manager

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