



TEXAS-LEHIGH CEMENT COMPANY



Evaluation tests for:

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

Typical Performance Data: Grind # 190501 Prod date: 1 - 31 May, 2019 Silo No. 2,6, 8,15

Chemical Analysis%(ASTM C114)

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	SO ₃	LOI	Na ₂ O	K ₂ O	Na ₂ O Equiv.	Insol. Residue
20.9	3.7	6.4	62.8	1.1	2.7	1.1	0.1	0.5	0.49	0.10

API Spec., max., % 6.0 3.0 3.0 0.75 0.75

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

	C ₃ S	C ₂ S	C ₃ A	[C ₄ AF+ 2(C ₃ A)]
	54	19	0	20
API 10A Spec. (%)	48 - 65		3 Max.	24 Max.

Physical Parameters

<u>Fineness</u>				API Spec.
Blaine-m ² /kg(ASTM C204)	<u>257</u>		% Free Fluid @ 38% H ₂ O	<u>4.3</u> 5.9% Max.
-325%(ASTM C430)	<u>78.0</u>		% Free Lime	<u>0.29</u>

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

API Schedule 5-Csg Depth ft. 8000 Bottom Hole Circulation Temp 125 Deg F H₂O 4.29 gal/sk

Consistency (Bc)				Thickening Time (Minutes)		Compressive Strength (PSI)	
Initial	15 min.	30 min.	60 min.	70 Bc.	100 Bc.	100° F	140° F
11	11	13	19	88	98	800	2090

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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