



GCC of America

600 S. Cherry Street, Suite 1000, Glendale, CO 80246
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MATERIAL CERTIFICATION REPORT OIL WELL API

Plant: Odessa
Address: 16501 W. Murphy
 Odessa, TX 79760
Contact: Gustavo Calderon
Phone: (432) 385-2836

Cement Type: API Class C - HSR
Date Issued: 7-Jan-19
Production Period: 1-Dec-18
To: 31-Dec-18

STANDARD REQUIREMENTS API (Spec 10A)

CHEMICAL		
Item	API 10A Spec. Limit	Test Result
MgO (%)	6.0 max	0.8
SO ₃ (%)	3.0 max	3.4
Loss On Ignition (%)	3.0 max	2.0
Insoluble Residue (%)	0.75 max	0.52
Equivalent Alkalies (%)	NR	0.19

Potential Phase Composition		
Item	API 10A Spec. Limit	Test Result
C ₃ S (%)	NR	57
C ₃ A (%)	3 max	2.1
C ₄ AF + 2 C ₃ A (%)	24 max	19

PHYSICAL		
Item	API 10A Spec. Limit	Test Result
Blaine Fineness (m ² /kg)	400 min	439

Compressive Strength		
8 h, 38 °C (100 °F), MPa (psi)	2.1 (300) min	5.1 (740)
24h, 38 °C (100 °F), MPa (psi)	13.8 (2000) min	15.4 (2240)

Thickening Time, Schedule 4		
Maximum Consistency, 15 to 30 min	30 max	5
Thickening Time @ 70 Bc (min)	^A	111
Thickening Time @ 100 Bc (min)	90 min	118

NR: No Requirement

^A Limit not specified. Test results provided for informational purposes only.

GCC of America Cement is warranted to conform at the time of shipment with current API 10A. No other warranty is made or implied. Having no control over the use of its cements, GCC of America does not guarantee finished work.