



GCC of America

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

Plant: Rapid City
Address: 501 N. St Onge st.
Rapid City, SD 57702
Contact: Gail Amicucci
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Cement Type: API Class G - MSR
Date Issued: 4-Feb-19
Production Period: 21-Jan-19
To: 28-Jan-19
Identification No: 59102

STANDARD REQUIREMENTS API (Spec 10A)

CHEMICAL		
Item	API 10A Spec. Limit	Test Result
MgO (%)	6.0 max	1.0
SO ₃ (%)	3.0 max	2.5
Loss On Ignition (%)	3.0 max	1.4
Insoluble Residue (%)	0.75 max	0.37
Equivalent Alkalies (%)	0.75 max	0.57

Potential Phase Composition		
Item	API 10A Spec. Limit	Test Result
C ₃ S (%)	48 min / 58 max	50
C ₃ A (%)	8 max	5
C ₄ AF + 2 C ₃ A (%)	24 max	21

PHYSICAL		
Item	API 10A Spec. Limit	Test Result
Blaine Fineness (m ² /kg)	NR	313
Free-Fluid Content (%)	5.9 max	4.8

Compressive Strength		
Item	API 10A Spec. Limit	Test Result
8 h, 38 °C (100 °F), MPa (psi)	2.1 (300)	5.4 (780)
8 h, 60 °C (140 °F), MPa (psi)	10.3 (1500)	14.8 (2150)

Thickening Time, Schedule 5		
Item	API 10A Spec. Limit	Test Result
Maximum Consistency, 15 to 30 min	30 max	12
Thickening Time @ 70 Bc (min)	^A	92
Thickening Time @ 100 Bc (min)	90 min / 120 max	102

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.