



## Certificate of Test

Class G Well Cement  
Grade MSR

November 8, 2018  
Lot 304

Chemical Requirements - Table 1			Physical and Performance Requirements – Table 2		
Item	Spec Limit	Result	Item	Spec Limit	Result
MgO	6.0 max	0.8	Free-Fluid Content, %	5.9 max	4.4
SO <sub>3</sub>	3.0 max	2.9	Compressive Strengths, PSI	8 hours @ 38° C	300 min
Loss on Ignition	3.0 max	1.3			
Insoluble Residue	0.75 max	0.49	Schedule 5 Thickening Time, minutes	90 to 120	94
C <sub>3</sub> S, %	48 to 58	58			
C <sub>3</sub> A, %	8 max	4			
Equivalent Alkalies, %	0.75 max	0.61			

This cement has been sampled and tested in accordance with API Specification 10A. Cement analysis are reported as oxides, in accordance with ASTM Test Method C114. This cement is manufactured at our Laramie, Wyoming facility. All test results are certified to comply with the type specification designated. We are not responsible for improper use or workmanship.

Bob Kersey  
Chief Chemist



AASHTO Accredited since 1996