



Certificate of Test

ASTM C150 Type I/II
AASHTO M85 Type I/II

September 14, 2018
Lot 213-243

C150 Chemical Requirements – Table 1

Item	Spec Limit	Result
Al ₂ O ₃	N/A	3.8
Fe ₂ O ₃	N/A	3.4
MgO	6.0 Max	1.0
SO ₃	2.3*	3.5
L.O.I.	3.5 Max	2.4
Insoluble Residue	1.5 Max	0.7

*Does not apply. In compliance with Footnote D, Table 1, ASTM Standard Specification C150 and AASHTO Standard Specification M85.

C150 Physical Requirements – Table 3

Item	Spec Limit	Result
Blaine Specific Surface, m ² /kg	260 Min	393
Air Content of Mortar, Vol %	12 Max	7.7
Autoclave Expansion, %	0.80 Max	-0.01
Vicat Initial Time of Set, minutes	45 Min	104
Vicat Final Time of Set, minutes	375 Max	185
Compressive Strength, psi:	3 Days	1740 Min 3590
	7 Days	2760 Min 4500
	Lot 182-212 28 Days	3050 Min 5820

Compound Composition

Item	Spec Limit	Result
C ₃ A, %	8 Max	4
Inorganic Processing Addt's, %	5.0 Max	0
CaCO ₃ in Limestone, %	70 Min	87.8
Limestone Additions	5.0 Max	3.8
C1038 Mortar Bar Expansion, %	0.020% Max	0.008

This cement has been sampled and tested in accordance with ASTM standard methods and procedures. 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 and specification designated. We are not responsible for improper use or workmanship.

Bob Kersey, Chief Chemist



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