



# The Monarch Cement Company

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## Certified Mill Test Report - Masonry Type - S

**Production Period:** December 1 - December 31, 2017

The following is based on average test data during the production period. The data is typical of cement produced at The Monarch Cement Company, Humboldt, KS. Individual shipments may vary.

	ASTM C91	MONARCH
Fineness, residue on No 325 sieve (45 micron)		
Maximum %.....	24	1.6
Autoclave Expansion - - Maximum % .....	1	-0.004
Gillmore Time of Setting, Initial.....	1.5	2:40
Compressive Strength - - PSI		
7 Days.....	1300	1940
28 Days.....	2100	2240
Air Content of Mortar		
Minimum %.....	8	16.2
Maximum %.....	19	
Water Retention - -		
Minimum % of original flow .....	70	89.1

The cement in this shipment meets standard requirements in the current specifications of the Federal Government and the American Society for Testing and Materials . All tests conform to ASTM Test Methods: Chemical C-114, Blaine C-204, Soundness C-151, Gillmore C-266, Compressive Strength C-109, Air Content C-185, and C-91.

Date: 6/18/2018

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Sean D. Bowman  
Quality Control Supervisor