



# The Monarch Cement Company

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## Certified Mill Test Report - Masonry Type - S

Production Period: June 2021

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	0.002
Gillmore Time of Setting, Initial, Minimum (minutes).....	90	92
Gillmore Time of Setting, Final, Maximum (minutes).....	1000	175
Compressive Strength - - PSI		
7 Days, Minimum.....	1300	2584
28 Days, Minimum.....	2100	3169
Air Content of Mortar		
Minimum %.....	8	17.9
Maximum %.....	19	
Water Retention - -		
Minimum % of original flow .....	70	95

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: 2/23/2024

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Mitchell R. King  
Quality Control Manager