



# The Monarch Cement Company

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Phone: 620-473-2222 · Fax: 620-473-2447

## Certified Mill Test Report - Masonry Type - N

**Production Period:** June 1 - June 30, 2018

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       | 1.5     |
| Autoclave Expansion - - Maximum % .....       | 1        | 0.06    |
| Gillmore Time of Setting, Initial.....        | 2        | 2:00    |
| Compressive Strength - - PSI                  |          |         |
| 7 Days.....                                   | 500      | 1270    |
| 28 Days.....                                  | 900      | 1591    |
| Air Content of Mortar                         |          |         |
| Minimum %.....                                | 8        | 17.8    |
| Maximum %.....                                | 21       |         |
| Water Retention - -                           |          |         |
| Minimum % of original flow .....              | 70       | 92      |

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: 9/13/2018

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Sean D. Bowman  
Quality Control Supervisor