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**CEMENT  
MILL  
TEST**

**Cement Identified as:** Mortar Cement, Type N **Date:** 03/04/20  
**Production Dates:** January, 2020

PHYSICAL REQUIREMENTS	ASTM C 1329 SPECIFICATIONS			RESULTS
		Type N		
(ASTM C 430) 45-um sieve, % retained	Maximum	24		11
(ASTM C 151) Autoclave Expansion, %	Maximum	1.0		0.1
(ASTM C 266) Time of Setting (Gillmore)				
Initial Set, minutes	Minimum	120		175
Final Set, minutes	Maximum	1000		245
(ASTM C 185) Air Content, %	Range	8-21		15
(ASTM C 1506) Water Retention	Minimum	70		81
(ASTM C 109) Compressive Strength, psi (Mpa)				
7 Day	Minimum	500 ( 3.5 )		2550 ( 17.6 )
28 Day	Minimum	900 ( 6.2 )		2810 ( 19.4 )

We hereby certify that this cement conforms to all of the standard requirements for mortar cement in the above specification for the type specified. ASTM C 1357 testing is performed by an independent testing firm and results are available upon request.

By: *Rusty Strader*

Physical Testing completed by: DG, MS  
 Chemical Testing completed by: TA, NC, JD, NM

Rusty Strader  
 Quality Control Manager  
 Fairborn Cement Company