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**CEMENT  
MILL  
TEST**

**Cement Identified as:** Mortar Cement, Type N **Date:** 09/30/21  
**Production Dates:** August, 2021

PHYSICAL REQUIREMENTS	ASTM C 1329 SPECIFICATIONS			RESULTS
		Type N		
(ASTM C 430) 45-um sieve, % retained	Maximum	24		9
(ASTM C 151) Autoclave Expansion, %	Maximum	1.0		0.09
(ASTM C 266) Time of Setting (Gillmore)	Initial Set, minutes	Minimum	120	190
	Final Set, minutes	Maximum	1000	275
(ASTM C 185) Air Content, %	Range	8-21		14
(ASTM C 1506) Water Retention	Minimum	70		79
(ASTM C1072) Flexural Bond Strength (psi)	Minimum	70		85
(ASTM C 109) Compressive Strength, psi (Mpa)	7 Day	Minimum	500 ( 3.5 )	2440 ( 16.8 )
	28 Day	Minimum	900 ( 6.2 )	2710 ( 18.7 )

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 C1072 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, KL, NM

Rusty Strader  
 Quality Control Manager  
 Fairborn Cement Company