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**CEMENT  
MILL TEST  
REPORT**

**Cement Identified as:** API Class A **Date:** 08/25/20

**Plant:** Fairborn Cement Company

**Production Period:** 8/22/2020 - 8/23/20 **Silo:** 4

STANDARD CHEMICAL REQUIREMENTS (ASTM C 114)		API SPECIFICATION CLASS A		RESULTS
Silicon Dioxide (SiO <sub>2</sub> ), %		-----		19.9
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ), %		-----		4.7
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ), %		-----		3.2
Calcium Oxide (CaO), %		-----		62.3
Magnesium Oxide (MgO), %	Maximum			4.8
Sulfur Trioxide (SO <sub>3</sub> ), %	Maximum	3.0		2.7
Loss on Ignition (LOI), %	Maximum	3.5		1.0
Insoluble Residue, %	Maximum	1.50		0.27
Alkalies (Na <sub>2</sub> O equivalent), %		-----		0.82
Tricalcium Silicate (C <sub>3</sub> S), Potential %		-----		58
Dicalcium Silicate (C <sub>2</sub> S), Potential %		-----		13
Tricalcium Aluminate (C <sub>3</sub> A), Potential %	Maximum	-----		7
Tetracalcium Aluminoferrite (C <sub>4</sub> AF), Potential %		-----		10
<b>PHYSICAL REQUIREMENTS</b>				
(ASTM C 204) Blaine Fineness, m <sup>2</sup> /kg	Minimum	280		291
API Compressive Strength, psi (Mpa)				
8 Hour, 100 degree F	Minimum	250 (1.7)		970 ( 6.7 )
24 Hour, 100 degree F	Minimum	1800 (12.4)		3510 ( 24.2 )
API Schedule 4 Thickening Time, minutes	Minimum	90		108
Maximum Consistency, 15 - 30				9

We hereby certify that this cement conforms to the standard requirements for API Specification 10A.

By: *Rusty Strader*

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

Rusty Strader  
 Quality Control Manager  
 Fairborn Cement Company