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**CEMENT  
MILL  
TEST**

**Cement Identified as:** API Class A **Date:** 09/15/23  
**Plant:** Fairborn Cement Company  
**Production Period:** August, 2023 **Silo:** 4

STANDARD CHEMICAL REQUIREMENTS (ASTM C 114)		API SPECIFICATION CLASS A		RESULTS
Silicon Dioxide (SiO <sub>2</sub> ), %		-----		19.7
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ), %		-----		4.4
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ), %		-----		3.0
Calcium Oxide (CaO), %		-----		61.7
Magnesium Oxide (MgO), %	Maximum			4.6
Sulfur Trioxide (SO <sub>3</sub> ), %	Maximum	3.0		2.9
Loss on Ignition (LOI), %	Maximum	3.5		1.5
Insoluble Residue, %	Maximum	1.50		0.50
Alkalies (Na <sub>2</sub> O equivalent), %		-----		0.85
Tricalcium Silicate (C <sub>3</sub> S), Potential %		-----		60
Dicalcium Silicate (C <sub>2</sub> S), Potential %		-----		11
Tricalcium Aluminate (C <sub>3</sub> A), Potential %	Maximum	-----		6
Tetracalcium Aluminoferrite (C <sub>4</sub> AF), Potential %		-----		9
<b>PHYSICAL REQUIREMENTS</b>				
(ASTM C204) Blaine Fineness, m <sup>2</sup> /kg	Minimum	280		317
API Compressive Strength, psi (Mpa)				
8 Hour, 100 degree F	Minimum	250 (1.7)		863 ( 6.0 )
24 Hour, 100 degree F	Minimum	1800 (12.4)		3017 ( 20.8 )
API Schedule 4 Thickening Time, minutes	Minimum	90		126
Maximum Consistency, 15 - 30				14

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

By: Rusty Strader

Physical Testing completed by: TL , JT  
 Chemical Testing completed by: CA, NM, NC, KL

Rusty Strader  
 Quality Control Manager  
 Fairborn Cement Company