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**CEMENT
MILL
TEST**

Cement Identified as: **API Class A** **Date:** 10/02/23

Plant: **Fairborn Cement Company**
Production Period: **September, 2023** **Silo: 4**

STANDARD CHEMICAL REQUIREMENTS (ASTM C 114)		API SPECIFICATION CLASS A		RESULTS
Silicon Dioxide (SiO ₂), %		-----		19.9
Aluminum Oxide (Al ₂ O ₃), %		-----		4.6
Ferric Oxide (Fe ₂ O ₃), %		-----		3.1
Calcium Oxide (CaO), %		-----		61.4
Magnesium Oxide (MgO), %	Maximum			4.8
Sulfur Trioxide (SO ₃), %	Maximum	3.0		2.7
Loss on Ignition (LOI), %	Maximum	3.5		1.3
Insoluble Residue, %	Maximum	1.50		0.44
Alkalies (Na ₂ O equivalent), %		-----		0.87
Tricalcium Silicate (C ₃ S), Potential %		-----		56
Dicalcium Silicate (C ₂ S), Potential %		-----		15
Tricalcium Aluminate (C ₃ A), Potential %	Maximum	-----		7
Tetracalcium Aluminoferrite (C ₄ AF), Potential %		-----		9
PHYSICAL REQUIREMENTS				
(ASTM C204) Blaine Fineness, m ² /kg	Minimum	280		310
API Compressive Strength, psi (Mpa)				
8 Hour, 100 degree F	Minimum	250 (1.7)		1048 (7.2)
24 Hour, 100 degree F	Minimum	1800 (12.4)		2910 (20.1)
API Schedule 4 Thickening Time, minutes	Minimum	90		110
Maximum Consistency, 15 - 30				20

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