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**CEMENT
MILL TEST
REPORT**

Cement Identified as: API Class A **Date:** 02/04/21

Plant: Fairborn Cement Company

Production Period: 2/1/21 - 2/3/21 **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), %		-----		4.5
Ferric Oxide (Fe ₂ O ₃), %		-----		3.2
Calcium Oxide (CaO), %		-----		2.4
Magnesium Oxide (MgO), %	Maximum			5.0
Sulfur Trioxide (SO ₃), %	Maximum	3.0		2.8
Loss on Ignition (LOI), %	Maximum	3.5		0.8
Insoluble Residue, %	Maximum	1.50		0.34
Alkalies (Na ₂ O equivalent), %		-----		0.80
Tricalcium Silicate (C ₃ S), Potential %		-----		60
Dicalcium Silicate (C ₂ S), Potential %		-----		12
Tricalcium Aluminate (C ₃ A), Potential %	Maximum	-----		7
Tetracalcium Aluminoferrite (C ₄ AF), Potential %		-----		10
PHYSICAL REQUIREMENTS				
(ASTM C 204) Blaine Fineness, m ² /kg	Minimum	280		296
API Compressive Strength, psi (Mpa)				
8 Hour, 100 degree F	Minimum	250 (1.7)		1280 (8.8)
24 Hour, 100 degree F	Minimum	1800 (12.4)		3190 (22.0)
API Schedule 4 Thickening Time, minutes	Minimum	90		98
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: DG , MS
 Chemical Testing completed by: TA, NM, NC

Rusty Strader
 Quality Control Manager
 Fairborn Cement Company