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**CEMENT
MILL
TEST**

Cement Identified as: **API Class A** **Date:** 02/28/22

Plant: **Fairborn Cement Company**
Production Period: **February, 2022** **Silo: 4,8**

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), %		-----		62.6
Magnesium Oxide (MgO), %	Maximum			4.4
Sulfur Trioxide (SO ₃), %	Maximum	3.0		2.9
Loss on Ignition (LOI), %	Maximum	3.5		1.1
Insoluble Residue, %	Maximum	1.50		0.53
Alkalies (Na ₂ O equivalent), %		-----		0.85
Tricalcium Silicate (C ₃ S), Potential %		-----		61
Dicalcium Silicate (C ₂ S), Potential %		-----		11
Tricalcium Aluminate (C ₃ A), Potential %	Maximum	-----		7
Tetracalcium Aluminoferrite (C ₄ AF), Potential %		-----		10
PHYSICAL REQUIREMENTS				
(ASTM C204) Blaine Fineness, m ² /kg	Minimum	280		296
API Compressive Strength, psi (Mpa)				
8 Hour, 100 degree F	Minimum	250 (1.7)		1217 (8.4)
24 Hour, 100 degree F	Minimum	1800 (12.4)		3780 (26.1)
API Schedule 4 Thickening Time, minutes	Minimum	90		115
Maximum Consistency, 15 - 30				12

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

By: *Rusty Strader*

Physical Testing completed by: DG , JT
 Chemical Testing completed by: TA, NM, NC, KL

Rusty Strader
 Quality Control Manager
 Fairborn Cement Company