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**CEMENT
MILL TEST
REPORT**

Cement Identified as: API Class A **Date:** 08/04/20

Plant: Fairborn Cement Company

Production Period: 8/2/2020 **Silo:** 8

STANDARD CHEMICAL REQUIREMENTS (ASTM C 114)		API SPECIFICATION CLASS A		RESULTS
Silicon Dioxide (SiO ₂), %		-----		19.6
Aluminum Oxide (Al ₂ O ₃), %		-----		4.7
Ferric Oxide (Fe ₂ O ₃), %		-----		3.3
Calcium Oxide (CaO), %		-----		62.3
Magnesium Oxide (MgO), %	Maximum			4.9
Sulfur Trioxide (SO ₃), %	Maximum	3.0		2.8
Loss on Ignition (LOI), %	Maximum	3.5		0.9
Insoluble Residue, %	Maximum	1.50		0.24
Alkalies (Na ₂ O equivalent), %		-----		0.88
Tricalcium Silicate (C ₃ S), Potential %		-----		61
Dicalcium Silicate (C ₂ S), Potential %		-----		10
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		299
API Compressive Strength, psi (Mpa)				
8 Hour, 100 degree F	Minimum	250 (1.7)		1100 (7.6)
24 Hour, 100 degree F	Minimum	1800 (12.4)		3480 (24.0)
API Schedule 4 Thickening Time, minutes	Minimum	90		123
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 , MS
 Chemical Testing completed by: TA, JD, NM, NC

Rusty Strader
 Quality Control Manager
 Fairborn Cement Company