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**CEMENT
MILL
TEST**

Cement Identified as: **API Class A** **Date:** 12/01/23

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

STANDARD CHEMICAL REQUIREMENTS (ASTM C 114)		API SPECIFICATION CLASS A	RESULTS
Silicon Dioxide (SiO ₂), %		-----	19.6
Aluminum Oxide (Al ₂ O ₃), %		-----	4.4
Ferric Oxide (Fe ₂ O ₃), %		-----	2.9
Calcium Oxide (CaO), %		-----	60.4
Magnesium Oxide (MgO), %	Maximum		4.4
Sulfur Trioxide (SO ₃), %	Maximum	3.0	2.9
Loss on Ignition (LOI), %	Maximum	3.5	0.9
Insoluble Residue, %	Maximum	1.50	0.58
Alkalies (Na ₂ O equivalent), %		-----	0.86
Tricalcium Silicate (C ₃ S), Potential %		-----	55
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	307
API Compressive Strength, psi (Mpa)			
8 Hour, 100 degree F	Minimum	250 (1.7)	975 (6.7)
24 Hour, 100 degree F	Minimum	1800 (12.4)	3175 (21.9)
API Schedule 4 Thickening Time, minutes	Minimum	90	116
Maximum Consistency, 15 - 30			19

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