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**CEMENT  
MILL  
TEST**

**Cement Identified as:** **API Class A** **Date:** **08/01/22**

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

STANDARD CHEMICAL REQUIREMENTS (ASTM C 114)		API SPECIFICATION CLASS A		RESULTS
Silicon Dioxide (SiO <sub>2</sub> ), %		-----		19.9
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ), %		-----		4.6
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ), %		-----		3.1
Calcium Oxide (CaO), %		-----		61.8
Magnesium Oxide (MgO), %	Maximum			4.5
Sulfur Trioxide (SO <sub>3</sub> ), %	Maximum	3.0		2.7
Loss on Ignition (LOI), %	Maximum	3.5		0.8
Insoluble Residue, %	Maximum	1.50		0.32
Alkalies (Na <sub>2</sub> O equivalent), %		-----		0.87
Tricalcium Silicate (C <sub>3</sub> S), Potential %		-----		57
Dicalcium Silicate (C <sub>2</sub> S), Potential %		-----		14
Tricalcium Aluminate (C <sub>3</sub> A), Potential %	Maximum	-----		7
Tetracalcium Aluminoferrite (C <sub>4</sub> AF), Potential %		-----		9
<b>PHYSICAL REQUIREMENTS</b>				
(ASTM C204) Blaine Fineness, m <sup>2</sup> /kg	Minimum	280		292
API Compressive Strength, psi (Mpa)				
8 Hour, 100 degree F	Minimum	250 (1.7)		1140 ( 7.9 )
24 Hour, 100 degree F	Minimum	1800 (12.4)		3520 ( 24.3 )
API Schedule 4 Thickening Time, minutes	Minimum	90		113
Maximum Consistency, 15 - 30				16

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