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**CEMENT
MILL TEST
REPORT**

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

Plant: **Fairborn Cement Company**
Production Period: **4/19/2021** **Silo: 8**

| STANDARD CHEMICAL REQUIREMENTS (ASTM C 114) | | API SPECIFICATION CLASS A | | RESULTS |
|--|---------|------------------------------|--|---------------|
| Silicon Dioxide (SiO ₂), % | | ----- | | 19.9 |
| Aluminum Oxide (Al ₂ O ₃), % | | ----- | | 4.6 |
| Ferric Oxide (Fe ₂ O ₃), % | | ----- | | 3.1 |
| Calcium Oxide (CaO), % | | ----- | | 63.3 |
| Magnesium Oxide (MgO), % | Maximum | | | 4.8 |
| Sulfur Trioxide (SO ₃), % | Maximum | 3.0 | | 3.0 |
| Loss on Ignition (LOI), % | Maximum | 3.5 | | 1.2 |
| Insoluble Residue, % | Maximum | 1.50 | | 0.38 |
| Alkalies (Na ₂ O equivalent), % | | ----- | | 0.83 |
| Tricalcium Silicate (C ₃ S), Potential % | | ----- | | 63 |
| Dicalcium Silicate (C ₂ S), Potential % | | ----- | | 10 |
| Tricalcium Aluminate (C ₃ A), Potential % | Maximum | ----- | | 7 |
| Tetracalcium Aluminoferrite (C ₄ AF), Potential % | | ----- | | 9 |
| PHYSICAL REQUIREMENTS | | | | |
| (ASTM C 204) Blaine Fineness, m ² /kg | Minimum | 280 | | 305 |
| API Compressive Strength, psi (Mpa) | | | | |
| 8 Hour, 100 degree F | Minimum | 250 (1.7) | | 1170 (8.1) |
| 24 Hour, 100 degree F | Minimum | 1800 (12.4) | | 3450 (23.8) |
| API Schedule 4 Thickening Time, minutes | Minimum | 90 | | 115 |
| Maximum Consistency, 15 - 30 | | | | 8 |

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, KL

Rusty Strader
 Quality Control Manager
 Fairborn Cement Company