



Cement

FLY ASH TEST REPORT

Analysis by: Lafarge Seattle Concrete Lab
Sample from : Centralia Power Plant
Average Analysis: September 2021
Test Report Number 10-21 F CSA

Chemical Analysis

| | |
|--|---------------|
| Silicon Dioxide (SiO ₂) | 48.7 % |
| Aluminum Oxide (Al ₂ O ₃) | 18.1 % |
| Iron Oxide (Fe ₂ O ₃) | 5.9 % |
| Sulphur Trioxide (SO ₃) | 0.8 % |
| Calcium Oxide (CaO) | 14.4 % |
| Magnesium Oxide | 5.4 % |
| Moisture Content | 0.22 % |
| Loss on Ignition | 0.23 % |
| Total Alkalies as Equivalent Na ₂ O | 4.31 % |

Physical Analysis

| | |
|--|------------------------------|
| Fineness Retained on 45 um (No. 325 Sieve) | 15.8 % |
| Strength Activity Index with Portland Cement % of Control at 28 Days (<i>previous month's result</i>) | 101 % |
| Water Requirement, Percent of Control | 93 % |
| Autoclave Expansion | 0.02 % |
| Density | 2.63 Mg/m³ |

We hereby certify that the composite fly ash sample above meets the chemical and physical requirements of CAN/CSA A3001 for Type F Fly Ash.

Certified . _____

Rob Shogren
Technical Director

WESTERN REGION

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