



Cement

FLY ASH TEST REPORT

Analysis by: Edmonton Mortar Lab
Sample from : Sheerness Power Plant
Average Analysis: March 2021
Test Report Number 4-21 CSA

Chemical Analysis

| | |
|---|---------------|
| Silicon Dioxide (SiO ₂) | 55.4 % |
| Aluminum Oxide (Al ₂ O ₃) | 23.3 % |
| Iron Oxide (Fe ₂ O ₃) | 7.1 % |
| Total (SiO ₂) + (Al ₂ O ₃) + (Fe ₂ O ₃) | 85.8 % |
| Sulphur Trioxide (SO ₃) | 0.8 % |
| Calcium Oxide (CaO) | 11.1 % |
| Magnesium Oxide | 3.0 % |
| Moisture Content | 0.06 % |
| Loss on Ignition | 0.78 % |
| Total Alkalies as Equivalent Na ₂ O | 1.70 % |

Physical Analysis

| | |
|--|------------------------------|
| Fineness Retained on 45 um (No. 325 Sieve) | 25.6 % |
| Strength Activity Index with Portland Cement | |
| % of Control at 28 Days (<i>previous month's result</i>) | 82 % |
| Water Requirement, Percent of Control | 94 % |
| Autoclave Expansion | -0.02 % |
| Density | 2.31 g/cm³ |

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 : _____

WESTERN REGION

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