



Cement

FLY ASH TEST REPORT

Analysis by: Edmonton Mortar Lab
Sample from : Keephills Power Plant
Average Analysis: August 2021
Test Report Number 9-21 CSA

Chemical Analysis

Silicon Dioxide (SiO ₂)	58.9 %
Aluminum Oxide (Al ₂ O ₃)	23.8 %
Iron Oxide (Fe ₂ O ₃)	3.8 %
Total (SiO ₂) + (Al ₂ O ₃) + (Fe ₂ O ₃)	86.5 %
Sulphur Trioxide (SO ₃)	0.1 %
Calcium Oxide (CaO)	9.0 %
Magnesium Oxide	1.2 %
Moisture Content	0.10 %
Loss on Ignition	0.79 %
Total Alkalies as Equivalent Na ₂ O	3.45 %

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	23.8 %
Strength Activity Index with Portland Cement	
% of Control at 28 Days (<i>previous month's result</i>)	102 %
Water Requirement, Percent of Control	95 %
Autoclave Expansion	-0.02 %
Density	2.05 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

5400 West Marginal Way SW, Seattle, Washington 98106-1517
Office: 206.923.0098 or 800.477.0100 Fax: 206.923.0388