



Cement

FLY ASH TEST REPORT

Analysis by: Edmonton Mortar Lab
Sample from : Keephills Power Plant
Average Analysis: October 2021
Test Report Number 11-21 CSA

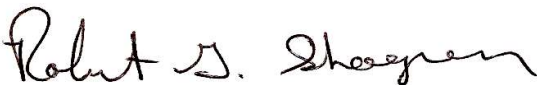
Chemical Analysis

Silicon Dioxide (SiO_2)	58.5 %
Aluminum Oxide (Al_2O_3)	23.2 %
Iron Oxide (Fe_2O_3)	3.9 %
Total (SiO_2) + (Al_2O_3) + (Fe_2O_3)	85.6 %
Sulphur Trioxide (SO_3)	0.1 %
Calcium Oxide (CaO)	9.8 %
Magnesium Oxide	1.2 %
Moisture Content	0.11 %
Loss on Ignition	0.90 %
Total Alkalies as Equivalent Na_2O	3.53 %

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	26.2 %
Strength Activity Index with Portland Cement	
% of Control at 28 Days (<i>previous month's result</i>)	98 %
Water Requirement, Percent of Control	95 %
Autoclave Expansion	0.00 %
Density	2.10 g/cm ³

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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