



Cement

FLY ASH TEST REPORT

Analysis by: Edmonton Mortar Lab
Sample from : Sundance Power Plant
Average Analysis: December 2021
Test Report Number 1-22 Sundance F CSA

Chemical Analysis

Silicon Dioxide (SiO ₂)	52.2 %
Aluminum Oxide (Al ₂ O ₃)	24.6 %
Iron Oxide (Fe ₂ O ₃)	4.5 %
Total (SiO ₂) + (Al ₂ O ₃) + (Fe ₂ O ₃)	81.3 %
Sulphur Trioxide (SO ₃)	0.1 %
Calcium Oxide (CaO)	13.0 %
Magnesium Oxide	1.3 %
Moisture Content	0.14 %
Loss on Ignition	0.48 %
Total Alkalies as Equivalent Na ₂ O	3.54 %

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	22.7 %
Strength Activity Index with Portland Cement	
% of Control at 28 Days (<i>previous month's result</i>)	103 %
Water Requirement, Percent of Control	94 %
Autoclave Expansion	0.00 %
Density	2.09 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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