



Cement

FLY ASH TEST REPORT

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

Chemical Analysis

Silicon Dioxide (SiO ₂)	61.7 %
Aluminum Oxide (Al ₂ O ₃)	22.2 %
Iron Oxide (Fe ₂ O ₃)	3.7 %
Total (SiO ₂) + (Al ₂ O ₃) + (Fe ₂ O ₃)	87.6 %
Sulphur Trioxide (SO ₃)	0.0 %
Calcium Oxide (CaO)	8.8 %
Magnesium Oxide	1.1 %
Moisture Content	0.12 %
Loss on Ignition	0.40 %
Total Alkalies as Equivalent Na ₂ O	3.00 %

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	28.5 %
Strength Activity Index with Portland Cement	
% of Control at 28 Days (<i>previous month's result</i>)	92 %
Water Requirement, Percent of Control	95 %
Autoclave Expansion	-0.01 %
Density	2.08 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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