



Cement

FLY ASH TEST REPORT

Analysis by: Edmonton Mortar Lab
Sample from : Keephills Power Plant
Average Analysis: November 2021
Test Report Number 12-21 F CSA

Chemical Analysis

		Limits
Silicon Dioxide (SiO_2)	56.8 %	
Aluminum Oxide (Al_2O_3)	23.4 %	
Iron Oxide (Fe_2O_3)	4.1 %	
Sulphur Trioxide (SO_3)	0.1 %	
Calcium Oxide (CaO)	10.4 %	15% Max - CSA
Magnesium Oxide	1.2 %	
Moisture Content	0.21 %	
Loss on Ignition	1.20 %	
Total Alkalies as Equivalent Na_2O	3.60 %	

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	28.4 %	34% Max - CSA
Strength Activity Index with Portland Cement		
% of Control at 28 Days (<i>previous month's result</i>)	94 %	
Water Requirement, Percent of Control	95 %	
Autoclave Expansion	0.00 %	
Density	2.12 Mg/m^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 . 

Rob Shogren
Technical Director

WESTERN REGION

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