



Cement

FLY ASH TEST REPORT

Analysis by: Lafarge Seattle Concrete Lab
Sample from : Centralia Power Plant
Average Analysis: February 2023
Test Report Number 3-23 F CSA

Chemical Analysis

		Limits
Silicon Dioxide (SiO ₂)	46.7 %	
Aluminum Oxide (Al ₂ O ₃)	18.4 %	
Iron Oxide (Fe ₂ O ₃)	5.9 %	
Sulphur Trioxide (SO ₃)	1.2 %	
Calcium Oxide (CaO)	14.9 %	15% Max - CSA
Magnesium Oxide	4.3 %	
Moisture Content	0.22 %	
Loss on Ignition	0.30 %	
Total Alkalies as Equivalent Na ₂ O	4.78 %	

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	14.2 %	34% Max - CSA
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	2.65 Mg/m³	

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

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