

## **FLY ASH TEST REPORT**

Sample from : Centralia/Kamloops Type F Fly Ash

Average Analysis: January 2024

Test Report Number Centralia/Kamloops-2-25\_F\_CSA

## **Chemical Analysis**

Silicon Dioxide (SiO <sub>2</sub> )	58.6	%
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	12.8	%
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	5.8	%
Total ( $SiO_2$ ) + ( $Al_2O_3$ ) + ( $Fe_2O_3$ )	77.2	%
Sulphur Trioxide (SO <sub>3</sub> )	0.5	%
Calcium Oxide (CaO)	13.0	%
Magnesium Oxide	3.3	%
Moisture Content	0.23	%
Loss on Ignition	2.85	%
Total Alkalies as Equivalent Na <sub>2</sub> O	3.18	%

## Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	12.1	%
Fineness Retained on 160 um	0.3	
Strength Activity Index with Portland Cement		
% of Control at 7 Days	75	%
% of Control at 28 Days (previous month's result)	83	%
Water Requirement, Percent of Control	99	%
Density	2.70	g/cm <sup>3</sup>
Density, Variation from Average	0.80	%
Fineness 45um Sieve, Variation from Average	2.90	%

We hereby certify that the composite fly ash sample above meets the chemical, physical and testing frequency requirements of CAN/CSA A3001 for Type F Fly Ash.

Rob Shogren, P.E.

Technical Service Engineer

Robert J. Shoopen

Lafarge North America

<sup>\*</sup> Tested at CCIL, ASTM C1077 and AASHTO R18 Acreedited Laboratory