

FLY ASH TEST REPORT

Sample from : Centralia/Kamloops Type F Fly Ash

Average Analysis: August 2024

Test Report Number Centralia/Kamloops-9-24_F_CSA

Ash Source: Centralia Washington

Chemical Analysis

Silicon Dioxide (SiO ₂)	60.0 %
Aluminum Oxide (Al ₂ O ₃)	12.0 %
Iron Oxide (Fe ₂ O ₃)	5.3 %
Total $(SiO_2) + (Al_2O_3) + (Fe_2O_3)$	77.3 %
Sulphur Trioxide (SO ₃)	0.5 %
Calcium Oxide (CaO)	11.6 %
Magnesium Oxide	3.8 %
Moisture Content	0.35 %
Loss on Ignition	2.50 %
Total Alkalies as Equivalent Na ₂ O	3.11 %

Physical Analysis

8.1	%
0.0	
1.1	%
80	%
81	%
100	%
2.67	g/cm ³
0.00	%
3.10	%
	0.0 1.1 80 81 100 2.67

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 Lafarge North America

Robert D. Shoepen

^{*} Tested at CCIL, ASTM C1077 and AASHTO R18 Acreedited Laboratory