



Cement

TS100 - Natural Pozzolan TEST REPORT

Analysis by: Lafarge Seattle
Sample from : Kamloops Grinding Plant
Average Analysis: July 2022
Test Report Number 8-22 Natural Pozzolan

Chemical Analysis

		Limits
Silicon Dioxide (SiO_2)	60.4 %	
Aluminum Oxide (Al_2O_3)	16.1 %	
Iron Oxide (Fe_2O_3)	6.4 %	
Total (SiO_2) + (Al_2O_3) + (Fe_2O_3)	82.9 %	70% Min - ASTM
Sulphur Trioxide (SO_3)	0.0 %	4% Max - ASTM
Calcium Oxide (CaO)	4.5 %	
Magnesium Oxide	2.3 %	
Moisture Content	1.38 %	3% Max - ASTM
Loss on Ignition	5.40 %	10% Max
Available Alkalies as Equivalent Na_2O	0.46 %	1.5% Max
Total Alkalies as Equivalent Na_2O	3.45 %	

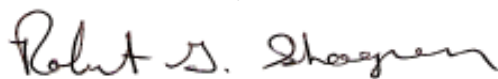
Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	7.6 %	34% Max - ASTM
Strength Activity Index with Portland Cement		
% of Control at 7 Days	75 %	75% Min - ASTM
% of Control at 28 Days (<i>previous month's result</i>)	85 %	75% Min - ASTM
Water Requirement, Percent of Control	105 %	115% Max- ASTM
Autoclave Expansion	0.00 %	0.8% Max - ASTM
Density	2.57 g/cm ³	

Uniformity Requirements

Density, Variation from Average	1.60 %	5% Max - ASTM
Fineness 45um Sieve, Variation from Average	1.10 %	5% Max - ASTM

We hereby certify that the composite natural pozzolan sample above meets the chemical and physical requirements of CAN/CSA A3001 for Type N and ASTM C-618 Class N.

Certified : 

WESTERN REGION

5400 West Marginal Way SW, Seattle, Washington 98106-1517

Office: 206.923.0098 or 800.477.0100 Fax: 206.923.0388