



Cement

TS100 - Pumice TEST REPORT

Analysis by: Lafarge Seattle
Sample from : Kamloops Grinding Plant
Average Analysis: May 2021
Test Report Number 6-21 Pumice

Chemical Analysis

		Limits
Silicon Dioxide (SiO ₂)	66.0 %	
Aluminum Oxide (Al ₂ O ₃)	17.1 %	
Iron Oxide (Fe ₂ O ₃)	4.4 %	
Total (SiO ₂) + (Al ₂ O ₃) + (Fe ₂ O ₃)	87.5 %	70% Min - ASTM
Sulphur Trioxide (SO ₃)	0.1 %	4% Max - ASTM
Calcium Oxide (CaO)	4.5 %	
Magnesium Oxide	1.4 %	
Moisture Content	0.30 %	3% Max - ASTM
Loss on Ignition	4.50 %	10% Max
Available Alkalies as Equivalent Na ₂ O	0.78 %	1.5% Max
Total Alkalies as Equivalent Na ₂ O	2.56 %	

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	5.6 %	34% Max - ASTM
Strength Activity Index with Portland Cement		
% of Control at 7 Days	97 %	75% Min - ASTM
% of Control at 28 Days (<i>previous month's result</i>)	99 %	75% Min - ASTM
Water Requirement, Percent of Control	100 %	115% Max- ASTM
Autoclave Expansion	0.01 %	0.8% Max - ASTM
Density	2.55 g/cm ³	

Uniformity Requirements

Density, Variation from Average	0.05 %	5% Max - ASTM
Fineness 45um Sieve, Variation from Average	1.50 %	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

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