



Cement Mill Test Report

Plant:	Kamloops, British Columbia
Product:	Portland Cement Type GUL
Mill Test Report #	Kamloops_Type GUL_7_24
Manufactured:	June 2024

CSA A3001- 18 Standard Requirements


CHEMICAL ANALYSIS			PHYSICAL ANALYSIS		
Item	Spec limit	Test Result	Item	Spec limit	Test Result
Rapid Method, X-Ray			Air content of mortar (%) (C 185)	---	6.5
SiO2 (%)	---	19.5	Blaine Fineness (m2/kg)	---	564
Al2O3 (%)	---	4.7	Passing 45 um (%)	72 min	2.6
Fe2O3 (%)	---	3.1			
CaO (%)	---	61.2	Compressive strength (MPa)		
MgO (%)	---	0.9	3 days	14.5 min	30.8
SO3 (%)	3.0 max*	2.8	7 days	20.0 min	39.3
Loss on ignition @ 950 (%)	10.0 max	3.5	28 days (Reflects previous month's data)	26.5 min	50.3
			Time of setting (minutes)		
Insoluble residue (%)	---	1.10	Vicat Initial	45-375	82
Free Lime (%)	---	1.0	Sulphate Resistance (C6)	---	0.048
Inorganic Process Addition (%)		0.0			
Potential Phase Composition			Cement Density		3.15
C3A%	---	8			
CSA A3001-18 Optional Chemical Requirements:					
NaEq (Alkali) (%)		0.59			

* May exceed 3.0% SO3 maximum based on our A3004-C5 results of <0.020% expansion at 14 days.

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of CSAS A3001 Type GUL

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Certified By:

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7/1/2024