



Cement Mill Test Report

Plant: **Kamloops, British Columbia**
Product: **Portland Cement Type GUL**
Mill Test Report # **Kamloops_Type GUL_11_24**
Manufactured: **October 2024**

CSA A3001-23 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)	---	6.9
SiO ₂ (%)	---	20.0	Blaine Fineness (m ² /kg)	---	548
Al ₂ O ₃ (%)	---	4.7	Passing 45 um (%)	72 min	1.7
Fe ₂ O ₃ (%)	---	3.4			
CaO (%)	---	62.7	Compressive strength (MPa)		
MgO (%)	---	0.9	3 days	14.5 min	32.3
SO ₃ (%)	3.0 max*	3.1	7 days	20.0 min	41.0
Loss on ignition @ 950 (%)	10.0 max	2.8	28 days (Reflects previous month's data)	26.5 min	50.0
			Time of setting (minutes)		
Insoluble residue (%)	---	0.95	Vicat Initial	45-375	100
Free Lime (%)	---	1.0			
Inorganic Process Addition (%)		0.0	Sulphate Resistance (C6)	---	0.05
Potential Phase Composition					
C3A%	---	7	A30004-C5	0.020 Max	0.00
			Cement Density		3.12
CSA A3001-18 Optional Chemical Requirements:					
NaEq (Alkali) (%)		0.60			

* 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

Western BU
5400 W Marginal Way SW
Seattle, WA 98106

Questions or enquiries can be directed to Paul Deram

Paul Deram
Lafarge - Technical Services Engineer
7591 #9 Road, Richmond, BC, V6W 0A6 Canada
C +1 604 328 7793
E paul.deram@lafarge.com

Certified By:

Robert Shogren
Technical Director
11/4/2024