



## Cement Mill Test Report

Plant: **Kamloops, British Columbia**  
Product: **Portland Cement Type GUL**  
Mill Test Report # **Kamloops\_Type GUL\_9\_24**  
Manufactured: **August 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)	---	7.5
SiO <sub>2</sub> (%)	---	20.1	Blaine Fineness (m <sup>2</sup> /kg)	---	530
Al <sub>2</sub> O <sub>3</sub> (%)	---	4.8	Passing 45 um (%)	72 min	1.6
Fe <sub>2</sub> O <sub>3</sub> (%)	---	3.3			
CaO (%)	---	62.2	Compressive strength (MPa)		
MgO (%)	---	0.9	3 days	14.5 min	31.7
SO <sub>3</sub> (%)	3.0 max*	3.1	7 days	20.0 min	43.3
Loss on ignition @ 950 (%)	10.0 max	4.0	28 days (Reflects previous month's data)	26.5 min	49.1
Insoluble residue (%)	---	0.66	Time of setting (minutes)		
Free Lime (%)	---	1.0	Vicat Initial	45-375	95
Inorganic Process Addition (%)		0.0	Sulphate Resistance (C6)	---	0.058
Potential Phase Composition			Cement Density		3.15
C3A%	---	7			
CSA A3001-18 Optional Chemical Requirements:					
NaEq (Alkali) (%)		0.56			

\* May exceed 3.0% SO<sub>3</sub> 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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Questions or enquiries can be directed to Paul Deram

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Certified By:

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