



## Cement Mill Test Report

Plant: **Kamloops, British Columbia**  
Product: **Portland Cement Type GUL**  
Mill Test Report # **Kamloops\_Type GUL\_8\_26**  
Manufactured: **July 2026**

### 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)        | ---        | 6.4         |
| SiO <sub>2</sub> (%)                     | ---        | 21.0        | Blaine Fineness (m <sup>2</sup> /kg)     | ---        | 528         |
| Al <sub>2</sub> O <sub>3</sub> (%)       | ---        | 5.2         | Retained 45 um (%)                       |            | 1.9         |
| Fe <sub>2</sub> O <sub>3</sub> (%)       | ---        | 5.2         |                                          |            |             |
| CaO (%)                                  | ---        | 64.9        | Compressive strength (MPa)               |            |             |
| MgO (%)                                  | ---        | 1.0         | 3 days                                   | 14.5 min   | 30.5        |
| SO <sub>3</sub> (%)                      | 3.0 max*   | 3.4         | 7 days                                   | 20.0 min   | 36.4        |
| Loss on ignition @ 950 (%)               | 10.0 max   | 4.0         | 28 days (Reflects previous month's data) | 26.5 min   | 44.5        |
| Insoluble residue (%)                    | ---        | 0.70        | Time of setting (minutes)                |            |             |
| Free Lime (%)                            | ---        | 1.0         | Vicat Initial                            | 45-375     | 119         |
| Inorganic Process Addition (%)           |            | 0.0         | Sulphate Resistance (C6)                 | ---        | 0.026       |
| Potential Phase Composition              |            |             | A30004-C5                                | 0.020 Max  | 0.00        |
| C3A%                                     | ---        | 8           | Cement Density                           |            | 3.14        |
| CSA A3001 Optional Chemical Requirements |            |             |                                          |            |             |
| NaEq (Alkali) (%)                        |            | 0.49        |                                          |            |             |

\* 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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Certified By:

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