

Cement Mill Test Report

Plant: Product: Mill Test Report # Manufactured:

Kamloops, British Columbia Portland Cement Type GUL Kamloops_Type GUL_8_24 July 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)		6.9
SiO2 (%)		19.8			
AI2O3 (%)		4.7	Blaine Fineness (m2/kg)		538
Fe2O3 (%)		3.2			
CaO (%)		32.4	Passing 45 um (%)	72 min	2.4
MgO (%)		0.9			
SO3 (%)	3.0 max*	3.1			
Loss on ignition @ 950 (%)	10.0 max	3.4			
			Compressive strength (MPa)		
Insoluble residue (%)		1.40			
Free Lime (%)		1.0	3 days	14.5 min	32.7
			7 days	20.0 min	41.3
Inorganic Process Addition (%)		0.0	28 days (Reflects previous month's data)	26.5 min	49.1
3					
			Time of setting (minutes)		
Potential Phase Composition			Vicat Initial	45-375	94
C3A%		7			•••
			Sulphate Resistance (C6)		0.048
			Cement Density		3.15
CSA A3001-18 Optional Chemica	al Requirements:				
NaEq (Alkali) (%)		0.59			
* May exceed 3 0% SO3 maximur	n based on our A30	04-C5 results of <0 020	% expansion at 14 days		
		04-001030113 01 40.020	v expansion at 14 days.		
We certify that the above descri	hed cement at th	e time of shinment	meets the chemical and physical requirements		
of CSAS A3001 Type GUI	sea comont, at th	eo or ompinent,	meete me enomiour and physical requirements		
of concentration type core					
				Certified By:	
Our offense an exercision and he directed to David Denser				Q11 = O	
Western BU	Questions or enquiries can be directed to Paul Deram			Kohnt J. She	somen
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Technical Director 7/29/2024