



Cement Mill Test Report

Month of Issue: May 2024

Plant: Product: Mill Test Report # Manufactured: Richmond, British Columbia OneCem R-TIL-24-05 April 2024

ASTM C595 - 21 Standard Requirements

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS			
Item	Spec limit	Test Result	Item	Spec limit	Test Result	
Rapid Method, X-Ray (C 114)			Air content of mortar (%) (C 185)	12 max	6.0	
SiO2 (%)		18.4				
AI2O3 (%)		4.6	Blaine Fineness (m2/kg)		434	
Fe2O3 (%)		3.0				
CaO (%)		62.9	Passing 325 (%)		99.0	
MgO (%)		0.9				
SO3 (%)	3.0 max*	2.7	Compressive strength (Mpa [PSI]) (C 109)			
Loss on ignition @ 950 (%)	10.0 max	6.6			Mpa	PSI
NaEq (Alkali) (%)		0.44	3 days	13.0 min	29.7	4310
Insoluble residue (%)		0.24	7 days	20.0 min	37.1	5380
				25.0 min	46.3	6710
			28 days (Reflects previous month's data)			
Inorganic Process Addition (%)		3				
			Time of setting (minutes)			
			Vicat Initial (C 191)	45-420	110	
Adjusted Potential Phase Comp	osition**					
C3S (%)		43	Mortar Bar Expansion (C 1038)*			
C2S (%)		20	14 days, % max	0.020 max	0.002	
C3A (%)		7				
C4AF (%)		9	Cement Density (C186)		3.09	

Sulphate Resistance ASTM C-452 (Q1/2024) 0.05 max 0.035

* May exceed 3.0% SO3 maximum based on our C 1038 results of <0.02% expansion at 14 days. ** Corrected by using ASTM Calculation for Limestone Cement

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of: ASTM C 595-21 & AASHTO M 240-21 STANDARD SPECIFICATIONS FOR TYPE IL(15), TYPE IL(15) MS CEMENT

Cement complies with NSF 61

Western BU - Richmond 7611 No 9 Rd Richmond, BC 604 244 4300 Questions or enquiries can be directed to Rob Shogren Rob Shogren, PhD Lafarge - Technical Director 5400 W Marginal Way SW, Seattle WA P +1 206 923 9953 E Rob.Shogren@lafargeholcim.com

Certified By:

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Robyn van Zutphen Quality Manager 5/21/2024