



Cement Test Report

Mill Test Report Number: SEA_NEWCEM_June2024 YEAR: 2024 MONTH OF PRODUCTION: May PLANT: Seattle CEMENT TYPE: NewCem Grade 100
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Reference Cement

Fineness by Air Permeability (m ² /kg; ASTM C204)	409		
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	3.5		
Compressive Strength (ASTM C109/C109 M)		psi	Min Limit
7-day	4,730		-
28-day	6,160		5,000
		Actual	Limits
Total Alkalies (Na₂O + 0.658 K₂O) (%, ASTM C114)	0.89		0.6-0.9

Slag

Fineness by Air Permeability (m ² /kg; ASTM C204)	486		
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	4.7		
Compressive Strength (ASTM C109/C109 M)		SAI	SAI Limit
28-day (Previous Month)			Min
	103		95
Specific Gravity (Mg/m ³ ; ASTM C188)	2.88		
		Actual	Max Limit
Air Content of Mortar (%, ASTM C185)	7.3		12
Sulfide Sulfur (% S, ASTM C114)	0.8		2.5
Sulfate Ion (% as SO ₃ , ASTM C114)	4.5		A
Color Value L*	80.9		

Slag

CHEMICAL ANALYSIS	Percent
Silica Dioxide (SiO ₂ ; ASTM C114)	32.6
Ferric Oxide (Fe ₂ O ₃ ; ASTM C114)	1.2
Aluminum Oxide (Al ₂ O ₃ ; ASTM C114)	12.8
Calcium Oxide (CaO; ASTM C114)	41.2
Sulfur Trioxide (SO ₃ ; ASTM C114)	5.3
Magnesium Oxide (MgO; ASTM C114)	4.5
Loss on Ignition (L.O.I.; ASTM C114)	1.10
Total Alkalies	0.53
Inorganic Process Addition	7.1

^A Not Applicable.

The ground granulated blast furnace slag complies with the current specification of the chemical physical requirement of ASTM C-989, AASHTO M-302 for grade 100 Ground Granulated Blast Furnace Slag (GGBFS) and and CSA A3001 Slag. Slag source is JFE Mineral Company in Kurashiki City, Japan. NewCem is ground and manufactured in Seattle, WA.



Certified to
NSF/ANSI/CAN 61

Certified by:

Rob Shogren
Technical Director

June 3, 2024