



Cement Test Report

Mill Test Report Number: SEA_NEWCEM_February 2024	
YEAR:	2024
MONTH OF PRODUCTION:	January
PLANT:	Seattle
CEMENT TYPE: NewCem Grade 100	

Reference Cement

Fineness by Air Permeability (m ² /kg; ASTM C204)	416		
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	3.3		
Compressive Strength (ASTM C109/C109 M)		<u>psi</u>	<u>Min Limit</u>
7-day	4,988		-
28-day	6,250		5,000
		<u>Actual</u>	<u>Limits</u>
Total Alkalies (Na₂O + 0.658 K₂O) (%, ASTM C114)	0.9		0.6-0.9

Slag

Fineness by Air Permeability (m ² /kg; ASTM C204)	391		
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	6.8		
Compressive Strength (ASTM C109/C109 M)		<u>SAI</u>	<u>SAI Limit</u>
28-day (Previous Month)		99	95
Specific Gravity (Mg/m ³ ; ASTM C188)	2.88		
Air Content of Mortar (%, ASTM C185)		<u>Actual</u>	<u>Max Limit</u>
		6.1	12
Sulfide Sulfur (% S, ASTM C114)	0.8		2.5
Sulfate Ion (% as SO ₃ , ASTM C114)	4.7		A
Color Value L*	81.1		

Slag

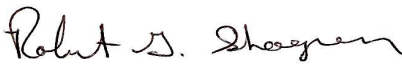
CHEMICAL ANALYSIS	Percent
Silica Dioxide (SiO ₂ ; ASTM C114)	32.3
Ferric Oxide (Fe ₂ O ₃ ; ASTM C114)	1.9
Aluminum Oxide (Al ₂ O ₃ ; ASTM C114)	13
Calcium Oxide (CaO; ASTM C114)	41.1
Sulfur Trioxide (SO ₃ ; ASTM C114)	5.5
Magnesium Oxide (MgO; ASTM C114)	5.3
Loss on Ignition (L.O.I.; ASTM C114)	0.70
Total Alkalies	0.70
Inorganic Process Addition	7

^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

February 8, 2024