

Mill Test Report Number: SEA_NEWCEM_July_2025

2025 YEAR: MONTH OF PRODUCTION: June PLANT: Seattle

Fineness by Air Permeability

(m²/kg; ASTM C204)

CEMENT TYPE: NewCem Grade 100

Slag

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Fineness by Air Permeability (m²/kg; ASTM C204)	436	
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	3.3	
Compressive Strength (ASTM C109/C109 M) 7-day 28-day	psi 5,290 6,350	Min Limit - 5,000
Total Alkalies (Na ₂ O + 0.658 K ₂ O) (%, ASTM C114)	<u>Actual</u> 0.86	<u>Limits</u> 0.6-0.9

Slag	
CHEMICAL ANALYSIS	Percent
Silica Dioxide (SiO _{2;} ASTM C114)	29.1
Ferric Oxide (Fe ₂ O _{3:} ASTM C114)	1.0
Aluminum Oxide (Al ₂ O ₃ ; ASTM C114)	11.6
Calcium Oxide (CaO; ASTM C114)	38.4
Sulfur Trioxide (SO ₃ ; ASTM C114)	7.7
Magnesium Oxide (MgO; ASTM C114)	4.7
Loss on Ignition (L.O.I.; ASTM C114)	2.16
Total Alkalies	0.56
Inorganic Process Addition	7.8

Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	4.1	
Compressive Strength (ASTM C109/C109 M) 28-day (Previous Month)	<u>SAI</u> 95	SAI Limit <u>Min</u> 95
Specific Gravity (Mg/m³; ASTM C188)	2.86	
Air Content of Mortar (%, ASTM C185)	Actual 6.7	Max Limit 12
Sulfide Sulfur (% S, ASTM C114)	0.8	2.5
Sulfate Ion (% as SO3, ASTM C114)	6.9	А
Sulfate Expansion (% Expansion, ASTM C1038, CSA C5)	0.001	0.020
Color Value L*	76.5	

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 Furace 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 by:

Rob Shogren Technical Director

July 3, 2025

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