

Cement Test Report

Mill Test Report Number: SEA_NEWCEM_November2024

YEAR: 2024
MONTH OF PRODUCTION: October
PLANT: Seattle

CEMENT TYPE: NewCem Grade 100

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Fineness by Air Permeability (m²/kg; ASTM C204)	387	
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	3.8	
Compressive Strength		
(ASTM C109/C109 M) 7-day 28-day	psi 4,840 5,840	Min Limit - 5,000
Total Alkalies (Na ₂ O + 0.658 K ₂ O) (%, ASTM C114)	Actual 0.9	<u>Limits</u> 0.6-0.9

Slag

29	
CHEMICAL ANALYSIS	Percent
Silica Dioxide (SiO _{2;} ASTM C114)	31.8
Ferric Oxide (Fe ₂ O _{3:} ASTM C114)	1.3
Aluminum Oxide (Al ₂ O ₃ ; ASTM C114)	10.5
Calcium Oxide (CaO; ASTM C114)	41.7
Sulfur Trioxide (SO ₃ ; ASTM C114)	7.3
Magnesium Oxide (MgO; ASTM C114)	4.4
Loss on Ignition (L.O.I.; ASTM C114)	1.43
Total Alkalies	0.59
Inorganic Process Addition	9.5
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	Slag	
Fineness by Air Permeability (m²/kg; ASTM C204)	456	
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	4.9	
Compressive Strength (ASTM C109/C109 M)	0.11	SAI Limit
28-day (Previous Month)	<u>SAI</u>	<u>Min</u>
20 day (i Toviodo Monai)	105	95
Specific Gravity (Mg/m³; ASTM C188)	2.88	
	Actual	Max Limit
Air Content of Mortar (%, ASTM C185)	5.1	12
Sulfide Sulfur (% S, ASTM C114)	0.8	2.5
Sulfate Ion (% as SO3, ASTM C114)	6.5	А
l		
Color Value L*	78.8	

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

November 4, 2024

A Not Applicable.