

Cement Test Report

Mill Test Report Number: SEA_NEWCEM_May2024

YEAR: 2024
MONTH OF PRODUCTION: April
PLANT: Seattle

PLANT: Seattle
CEMENT TYPE: NewCem Grade 100

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Fineness by Air Permeability (m²/kg; ASTM C204)	409	
Fineness by 45 μm (No. 325) Sieve (% retain; ASTM C430)	3.5	
Compressive Strength (ASTM C109/C109 M) 7-day 28-day	psi 4,730 6,160	Min Limit - 5,000
Total Alkalies (Na ₂ O + 0.658 K ₂ O) (%, ASTM C114)	<u>Actual</u> 0.89	<u>Limits</u> 0.6-0.9

Slag

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CHEMICAL ANALYSIS	Percent
Silica Dioxide (SiO _{2;} ASTM C114)	32.3
Ferric Oxide (Fe ₂ O ₃ ; ASTM C114)	1.2
Aluminum Oxide (Al ₂ O ₃ ; ASTM C114)	12
Calcium Oxide (CaO; ASTM C114)	41.9
Sulfur Trioxide (SO ₃ ; ASTM C114)	5.7
Magnesium Oxide (MgO; ASTM C114)	5.8
Loss on Ignition (L.O.I.; ASTM C114)	0.54
Total Alkalies	0.55
Inorganic Process Addition	8.9

Slag	
454	
4.8	
	SAI Limit
SAI	Min
<u> </u>	<u></u>
101	95
101	
2 91	
2.0 .	
Actual	Max Limit
	12
0.0	
0.8	2.5
4.9	A
81.3	
	4.8 SAI 101 2.91 Actual 5.6 0.8

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

May 3, 2024

^A Not Applicable.