

# AMRIZE Cement Test Report

Mill Test Report Number: SEA\_NEWCEM\_December\_2025  
 YEAR: 2025  
 MONTH OF PRODUCTION: November  
 PLANT: Seattle  
 CEMENT TYPE: NewCem Grade 100

## Reference Cement

Fineness by Air Permeability (m <sup>2</sup> /kg; ASTM C204)	445		
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	2.8		
Compressive Strength (ASTM C109/C109 M)		<u>psi</u>	<u>Min Limit</u>
7-day	5,230		-
28-day	6,130		5,000
Total Alkalies (Na <sub>2</sub> O + 0.658 K <sub>2</sub> O) (%, ASTM C114)	<u>Actual</u>		<u>Limits</u>
	0.86		0.6-0.9

## Slag

CHEMICAL ANALYSIS	Percent
Silica Dioxide (SiO <sub>2</sub> ; ASTM C114)	31.6
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ; ASTM C114)	1.1
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ; ASTM C114)	12.5
Calcium Oxide (CaO; ASTM C114)	40
Sulfur Dioxide (SO <sub>2</sub> ; ASTM C114)	4.4
Magnesium Oxide (MgO; ASTM C114)	4.8
Loss on Ignition (L.O.I.; ASTM C114)	1.00
Total Alkalies	0.53
Inorganic Process Addition	6

## Slag

Fineness by Air Permeability (m <sup>2</sup> /kg; ASTM C204)	439		
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	3.9		
Compressive Strength (ASTM C109/C109 M)		<u>SAI</u>	<u>SAI Limit</u>
28-day (Previous Month)			<u>Min</u>
	103		95
Specific Gravity (Mg/m <sup>3</sup> ; ASTM C188)	2.9		
Air Content of Mortar (%, ASTM C185)	<u>Actual</u>		<u>Max Limit</u>
	8.7		12
Sulfide Sulfur (% S, ASTM C114)	0.8		2.5
Sulfate Ion (% as SO <sub>3</sub> , ASTM C114)	3.6		A
Sulfate Expansion (% Expansion, ASTM C1038, CSA C5)	0.001		0.020
Color Value L*	76.3		

<sup>A</sup> 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:

*Robert S. Shogren*

Rob Shogren  
Technical Director

December 3, 2025