



# 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 (m²/kg; ASTM C204)	445									
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	2.8									
Compressive Strength (ASTM C109/C109 M)	<table border="1"> <thead> <tr> <th></th> <th>psi</th> <th>Min Limit</th> </tr> </thead> <tbody> <tr> <td>7-day</td> <td>5,230</td> <td>-</td> </tr> <tr> <td>28-day</td> <td>6,130</td> <td>5,000</td> </tr> </tbody> </table>		psi	Min Limit	7-day	5,230	-	28-day	6,130	5,000
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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)	<table border="1"> <thead> <tr> <th>Actual</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>0.86</td> <td>0.6-0.9</td> </tr> </tbody> </table>	Actual	Limits	0.86	0.6-0.9					
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0.86	0.6-0.9									

## Slag

Fineness by Air Permeability (m²/kg; ASTM C204)	439				
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	3.9				
Compressive Strength (ASTM C109/C109 M)	<table border="1"> <thead> <tr> <th>SAI</th> <th>SAI Limit Min</th> </tr> </thead> <tbody> <tr> <td>28-day (Previous Month)</td> <td>103</td> </tr> </tbody> </table>	SAI	SAI Limit Min	28-day (Previous Month)	103
SAI	SAI Limit Min				
28-day (Previous Month)	103				
Specific Gravity (Mg/m³; ASTM C188)	2.9				
Air Content of Mortar (%, ASTM C185)	<table border="1"> <thead> <tr> <th>Actual</th> <th>Max Limit</th> </tr> </thead> <tbody> <tr> <td>8.7</td> <td>12</td> </tr> </tbody> </table>	Actual	Max Limit	8.7	12
Actual	Max Limit				
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 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 to  
NSF/ANSI/CAN 61

Certified by:

Rob Shogren  
Technical Director

December 3, 2025