

BRAND: EarthCEM® Slag Cement
Grade: 120
Type: ASTM C989-18a
Report Date: June 2023

SOURCE LOCATION:
 WALAN SCP, LLC
 501 Christina Avenue
 Wilmington, DE 19801
 855.438.7524

CHEMICAL & PHYSICAL REQUIREMENTS	TEST RESULT	SPECIFICATION
Sulfur Trioxide (SO ₃), %	1.96	4.0 Max
Sulfur Sulfide (S), %	0.82	2.5 Max
Aluminum Oxide (Al ₂ O ₃), %	15.03	—
Blaine Surface Area, m ² /kg	616	—
Fineness Retained on 325 Mesh Sieve (45 micron), %	0.4	20 Max
Air Content %	8.1	12 Max
Total Alkalies % (Na ₂ O + 0.658 K ₂ O)	0.38	—
Density	2.89	—
SLAG ACTIVITY INDEX		
7 Day: Individual, %	102	—
7 Day: Average of last 5, %	96.2	—
28 Day: Individual, %	116	110 Min
28 Day: Average of last 5, %	127.6	115 Min
COMPRESSIVE STRENGTH		
7 Day - Reference Cement, PSI	5180	—
28 Day - Reference Cement, PSI	6425	5000
7 Day - 50% Slag + 50% Reference Cement, PSI	5284	—
28 Day - 50% Slag + 50% Reference Cement, PSI	7486	—
TEST DATA ON REFERENCE CEMENT		
Total Alkalies % (Na ₂ O + 0.658 K ₂ O)	0.79	0.60 - 0.90
C3S %	55.00	—
C2S %	19.00	—
C3A %	10.00	—
C4AF %	8.00	—
Blaine Surface Area, m ² /kg	370	260 Min

NOTE: Dashes in the specification column means "Not Applicable."

Certified by: *Jason Murtha*
 Jason Murtha
 WALAN SCP Operations Mgr.

