



Slag Cement Test Report

CTC ID: 49
Slag Source: Rizhao Vessel EFTICHIA
Sample Date: January 2018
Report Date: 5/4/2018
Sample Log CTC ID: 2018-053

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Specifications: ASTM C 989-17 Grades 100 & 120

Chemical and Physical Requirements	Test Result	Specifications	
Sulfur Trioxide (SO ₃), %	2.90	4.0 Max	
Sulfur Sulfide (S), %	0.72	2.5 Max	
Chloride (Cl), ppm	14.54	---	
Blaine Fineness (ASTM C 204), m ² /kg	482	---	
Fineness Retained 325 Mesh (ASTM C 430), %	2.1	20 Max	
Density (ASTM C 188), g/cm ³	2.9	---	
Air Content (ASTM C 185), %	2.12	12 Max	
Slag Activity Index (ASTM C 109)		Grade 100	Grade 120
7 Day - Individual, %	95	---	---
7 Day - Average of last 5, %		---	---
28 Day - Individual, %	129	90 Min	110 Min
28 Day - Average of last 5, %		95 Min	115 Min
Compressive Strength (ASTM C 109)		Specifications	
7 Day - Reference Cement, psi	4730	---	
28 Day - Reference Cement, psi	5769	5,000 Min	
7 Day Slag and Cement Reference, psi	4473	---	
28 Day Slag and Cement Reference, psi	7437	---	
Reference Cement (ASTM C 114 & C 204)		Specifications	
Total Alkalies (Na ₂ O+0.685 K ₂ O), %	0.60	0.6 Min/ 0.9 Max	
C ₃ S, %	63	---	
C ₂ S, %	9.9	---	
C ₃ A, %	4.8	---	
C ₄ AF, %	11	---	

This GGBFS meets requirements of ASTM C 989-17 and AASHTO M 302-15

- Grade 100 ASTM C989
- Grade 100 AASHTO M302
- Grade 120 ASTM C989
- Grade 120 AASHTO M302

Yareliz Rios

By: Yareliz Rios
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 Chemist