SKYWAY CEMENT COMPANY

Material Certification Report

Brand:	Skyway Cement
Material:	Slag Cement
Grade:	100
Date Range:	May 1-31, 2022
Lot Number:	Multiple Lots

Certification

This cement meets the requirements of ASTM C989 and AASHTO M302 specifications for Grade 100 slag cement.

General Information

Supplier:	Skyway Cement Company LLC.	Source Location:	Skyway Cement Company LLC.
Address:	3020 East 103rd Street		3020 East 103rd Street
	Chicago, IL 60617		Chicago, IL 60617
Telephone:	(872)302-5910	Contact:	Roberto Carrillo
Date Issued:	13-Jun-2022		

The following information is based on average test data during the test period.
The data is typical of slag cement shipped by Skyway Cement Company LLC.; individual shipments may vary.

Test Data on ASTM Standard Requirements

Chemical

Item	Limit[A]	Result
Sulfide S (%)	2.5 max	0.93
Sulfate Ion - SO_3 (%)	-	0.00
Aluminum Oxide (%)	-	10.29
Chloride - CL (%)	-	0.08
Total Alkalies as Na2O (%)	-	0.56

Physical

Item	Limit[A]	Result
+45 µm (No. 325) Sieve (%)	20 max	0.50
Blaine Fineness (m2/kg)	-	565
Air Content (%)	12 max	3.82
Slag Activity Index (%)		
Avg 7 Day Index	-	77
Avg 28 Day Index	95 min	105
Compressive Strength - MPa (psi):		
Slag + Reference Cement		
7 Day	-	23 (3369)
28 Day	-	39 (5725)
Reference Cement[B]		
7 Day	-	29 (4251)
28 Day	-	37 (5456)

Reference Cement Qualification Data

Chemical

Item	Limit[A]	Result
Total Alkalies as Na_2O (%)	0.60 - 0.90	0.78
C_3S	-	47.5
C_2S	-	25.3
C_3A	-	10.1
C_4AF	-	7.3

Physical

Item	Limit[A]	Result
Blaine Fineness (m^2/kg)	-	342
Compressive Strength - MPa (psi):		
7 Day	-	28 (4065)
28 Day	34.5 (5000) min	35 (5082)

Notes

[A]Dashes in the limits columns means Not Applicable
[B]Reference cement results from procedure "Preparation of Specimens". Information on Reference Cement qualification available upon request.
Specific Gravity: 2.89
This data may have been reported on previous mill certificates. It is typical of the cement being currently shipped which was produced in May of 2022.

Quality Manager