



Material Certification Report

Brand: Skyway Cement
 Material: Slag Cement
 Grade: 100
 Date Range: March 1-31, 2023
 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 Chicago, IL 60617		3020 East 103rd Street Chicago, IL 60617
Telephone:	(872)302-5910	Contact:	Roberto Carrillo
Date Issued:	13-Apr-2023		

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			Physical		
Item	Limit ^A	Result	Item	Limit ^A	Result
Sulfide S (%)	2.5 max	0.88	+45 µm (No. 325) Sieve (%)	20 max	0.47
Sulfate Ion - SO ₃ (%)	-	0.17	Blaine Fineness (m ² /kg)	-	560
Aluminum Oxide (%)	-	9.81	Air Content (%)	12 max	3.84
Chloride - CL (%)	-	0.1	Slag Activity Index (%)		
Total Alkalies as Na ₂ O (%)	-	0.55	Avg 7 Day Index	-	82
			Avg 28 Day Index	95 min	107
			Compressive Strength - MPa (psi):		
			Slag + Reference Cement		
			7 Day	-	23 (3353)
			28 Day	-	38 (5512)
			Reference Cement ^B		
			7 Day	-	28 (4081)
			28 Day	-	35 (5139)

Reference Cement Qualification Data

Chemical			Physical		
Item	Limit ^A	Result	Item	Limit ^A	Result
Total Alkalies as Na ₂ O (%)	0.60 - 0.90	0.83	Blaine Fineness (m ² /kg)	-	372
C ₃ S	-	40.8	Compressive Strength - MPa (psi):		
C ₂ S	-	30.7	7 Day	-	27 (4006)
C ₃ A	-	10.5	28 Day	34.5 (5000) min	35 (5018)
C ₄ AF	-	7.8			

Notes

^ADashes in the limits columns means Not Applicable

^BReference 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 March of 2023.

Quality Manager