

GROUND GRANULATED BLAST FURNACE SLAG

Conforming to ASTM C989 Grade 100

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Chemical Composition

Item	Units	Specification	Test Result	Test Method
Silicon Dioxide, SiO ₂	%	N/A	33.43	ASTM C114-22
Iron Oxide, Fe ₂ O ₃	%	N/A	0.64	ASTM C114-22
Calcium Oxide, CaO	%	N/A	41.80	ASTM C114-22
Magnesium Oxide, MgO	%	N/A	6.72	ASTM C114-22
Sodium Oxide, Na ₂ O	%	N/A	0.26	ASTM C114-22
Potassium Oxide, K ₂ O	%	N/A	0.36	ASTM C114-22
Alumina Oxide, Al ₂ O ₃	%	N/A	12.81	ASTM C114-22
Sulfur Trioxide, SO ₃	%	N/A	0.28	ASTM C114-22
Sulfide Sulfur, S	%	Max 2.5	0.56	ASTM C114-22
Chloride, Cl	%	N/A	0.010	ASTM C114-22

Physical Properties

Item	Units	Specification	Test Result	Test Method
Fineness - Blaine	cm ² /g	N/A	5200	ASTM C204-16
Amount Retained on Sieve 45	%	Max 20.0	3.5	ASTM C430-15
Air Content of Slag Mortar	%	Max 12.0	6.2	ASTM C185-16
Mass Density	g/cm ³	N/A	2.90	ASTM C188-16

Performance Requirements

Item	Units	Specification	Test Result	Test Method
Slag Activity Index - 7 Day Individual	%	Min 70	72.6	ASTM C989
Slag Activity Index - 28 Day Individual	%	Min 90	100	ASTM C989
Compressive Strength - 7 Day Reference Cement	psi	N/A	3553	ASTM C989
Compressive Strength - 28 Day Reference Cement	psi	Min 5000	5004	ASTM C989
Compressive Strength - 7 Day Slag and Cement Reference	psi	N/A	2580	ASTM C989
Compressive Strength - 28 Day Slag and Cement Reference	psi	N/A	5004	ASTM C989

Additional Properties

Item	Units	Specification	Test Result	Test Method
Loss on Ignition, LOI	%	Max 3.00	1.00	ASTM C114-15
Basicity $(\text{CaO} + \text{MgO} + \text{Al}_2\text{O}_3) / \text{SiO}_2$	Ratio	N/A	1.83	ASTM C114-15
Glass Content	%	N/A	95.2	ASTM C114-15
Moisture	%	Max 1.00	0.43	ASTM C114-15

N/A: Not Applicable. Values are presented as supplied in the product specification document.