

خبث محبب من صناعة الحديد والصلب

GROUND GRANULATED BLAST FURNACE SLAG CERTIFICATE

Product : GGBFS
Standard : ASTM C 989-18
Grade of GGBFS : Grade 100
Week No. : 50/20
Sample Date : 09-15.12.2020 تاريخ العينة :
Issue Date : 20-Jan-21

Parameters	Units	Results %	Specification	
Chemical Test Results				
Loss On Ignition (Corrected for Oxidation of Sulfur)	LOI	%	1.16	
Silicon Dioxide	SiO ₂	%	33.42	
Aluminium Oxide	Al ₂ O ₃	%	14.89	
Ferric Oxide	Fe ₂ O ₃	%	0.96	
Calcium Oxide	CaO	%	38.81	
Magnesium Oxide	MgO	%	7.02	
Potassium Oxide	K ₂ O	%	0.37	
Sodium Oxide	Na ₂ O	%	0.30	
Sulphur Trioxide	SO ₃	%	1.42	
Chloride	Cl ⁻	%	0.017	
Sulphide Sulfur	S ²⁻	%	0.79	Max. 2.50 %
Manganese Oxide	Mn ₂ O ₃	%	0.18	
Insoluble Residue	IR	%	0.18	
Physical Test Results				
Fineness (Specific Surface)	Blaines	m ² /kg	440	
+45 µm Residue		%	1.96	Max. 20.00 %
Specific Gravity			2.88	
Air Content of slag mortar		%	1.28	Max. 12.00 %
Slag Activity Index (50% OPC : 50 % GGBFS)				
7 Days		%	80.6	
28 Days		%	107.4	Min. 95.0 %
Reference OPC				
Equivalent Alkali		%	0.60	0.60-0.90 %
28 Days Compressive Strength		Mpa	37.4	Min. 35.0 Mpa

We hereby certify that above described GGBFS, at the time of consignment, meets the chemical and physical requirements of the ASTM C 989-18a


Quality Control Manager
 (D. Balasubramanian)