

AlphaCem

Type of Cement : CEM III /A 52.5 L
 Standard : BS EN 197-1:2011
 Week No. : 17/21
 Sample Date : 23-29.04.2021
 Issue Date : 31-May-21

Parameters		Units	Results %	Specification
Chemical Test Results				
Loss On Ignition	LOI	%	1.10	Max. 5.00 %
Silicon Dioxide	SiO ₂	%	26.90	
Aluminium Oxide	Al ₂ O ₃	%	10.14	
Ferric Oxide	Fe ₂ O ₃	%	2.16	
Calcium Oxide	CaO	%	50.70	
Magnesium Oxide	MgO	%	4.68	
Potassium Oxide	K ₂ O	%	0.46	
Sodium Oxide	Na ₂ O	%	0.23	
Sulphur Trioxide	SO ₃	%	2.10	Max. 4.00 %
Chloride	Cl ⁻	%	0.025	Max. 0.10 %
Sulphide Sulphur	S ²⁻	%	0.31	
Manganese Oxide	Mn ₂ O ₃	%	0.14	
Insoluble Residue	IR	%	0.30	Max. 5.00 %
Physical Test Results				
Fineness (Specific Surface)	Blaines	m ² /kg	454	
+45 µm Residue		%	2.02	
Specific Gravity			2.96	
Initial Setting Time	IST	Minutes	220	Min. 45.0 Minutes
Final Setting Time	FST	Minutes	251	
Soundness -Le-Chatlier	Expansion	mm	0.7	Max. 10.0 mm
Compressive Strength (N/mm²)				
2 Days		N/mm ²	17.3	Min. 10.0
7 Days		N/mm ²	32.8	
28 Days		N/mm ²	55.5	Min.52.5

We hereby certify that the above described BLAST FURNACE CEMENT,CEM III /A 52.5 L, at the time of consignment,meets the chemical and Physical requirements of the BS EN 197-1:2011


 Quality Control Manager
 (D. Balasubramanian)