

SR Cem

Type of Cement : CEM III /B-SR 42.5 N
 Standard : BS EN 197-1:2011
 Week No. : 28/20
 Sample Date : 08-14.07.2020
 Issue Date : 19-Aug-20

Parameters		Units	Results %	Specification
Chemical Test Results		Units	Results %	Specification
Loss On Ignition	LOI	%	0.99	Max. 5.00 %
Silicon Dioxide	SiO ₂	%	26.12	
Aluminium Oxide	Al ₂ O ₃	%	9.07	
Ferric Oxide	Fe ₂ O ₃	%	2.07	
Calcium Oxide	CaO	%	52.38	
Magnesium Oxide	MgO	%	4.27	
Potassium Oxide	K ₂ O	%	0.53	
Sodium Oxide	Na ₂ O	%	0.23	
Sulphur Trioxide	SO ₃	%	2.09	Max. 4.00 %
Chloride	Cl ⁻	%	0.018	Max. 0.10 %
Sulphide Sulphur	S ²⁻	%	0.33	
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	446	
+45 µm Residue		%	1.60	
Specific Gravity			2.96	
Initial Setting Time	IST	Minutes	215	Min. 60.0 Minutes
Final Setting Time	FST	Minutes	256	
Soundness -Le-Chatlier	Expansion	mm	0.2	Max. 10.0 mm
Compressive Strength (N/mm²)				
2 Days		N/mm ²	16.6	Min. 10.0
7 Days		N/mm ²	32.4	
28 Days		N/mm ²	55.0	Min.42.5 & Max. 62.5

We hereby certify that the above described BLAST FURNACE CEMENT ,CEM III /B-SR 42.5 N, at the time of consignment,meets the chemical and Physical requirements of the BS EN 197-1:2011


 Quality Control Manager
 (D. Balasubramanian)

