

SRCem

Type of Cement : CEM III /B-SR 42.5 N
Standard : BS EN 197-1:2011
Week No. : 07/20
Sample Date : 12-18.02.2020
Issue Date : 21-Mar-20

Parameters		Units	Results %	Specification
Chemical Test Results		Units	Results %	Specification
Loss On Ignition	LOI	%	1.49	Max. 5.00 %
Silicon Dioxide	SiO ₂	%	26.24	
Aluminium Oxide	Al ₂ O ₃	%	9.43	
Ferric Oxide	Fe ₂ O ₃	%	2.40	
Calcium Oxide	CaO	%	51.43	
Magnesium Oxide	MgO	%	4.43	
Potassium Oxide	K ₂ O	%	0.53	
Sodium Oxide	Na ₂ O	%	0.24	
Sulphur Trioxide	SO ₃	%	2.04	Max. 4.00 %
Chloride	Cl ⁻	%	0.021	Max. 0.10 %
Sulphide Sulphur	S ²⁻	%	0.36	
Manganese Oxide	Mn ₂ O ₃	%	0.16	
Insoluble Residue	IR	%	0.30	Max. 5.00 %
Physical Test Results				
Fineness (Specific Surface)	Blaines	m ² /kg	441	
+45 µm Residue		%	1.42	
Specific Gravity			2.96	
Initial Setting Time	IST	Minutes	234	Min. 60.0 Minutes
Final Setting Time	FST	Minutes	266	
Soundness -Le-Chatlier	Expansion	mm	0.4	Max. 10.0 mm
Compressive Strength (N/mm²)				
2 Days	N/mm ²		16.2	Min. 10.0
7 Days	N/mm ²		31.5	
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)

