



TEST CERTIFICATE

PRODUCT: ORDINARY PORTLAND CEMENT (OPC)

Tested in accordance with BS EN 197-1:2011 CEM I (Strength Class 42.5 N)

WEEK No: 15 (08.04.2024 to 14.04.2024)

CERTIFICATE DATE: 22.04.2024

S No	Constituent		BS EN 197-1:2011 Sp.Limits	Results	
CHEMICAL COMPOSITION					
1	Loss on Ignition	%	LOI	Max. 5.00	4.82
2	Insoluble residue	%	IR	Max. 5.00	0.94
3	Silicon Dioxide	%	SiO ₂	--	19.25
4	Aluminium Oxide	%	Al ₂ O ₃	--	5.33
5	Iron Oxide	%	Fe ₂ O ₃	--	4.15
6	Calcium Oxide	%	CaO	--	60.82
7	Magnesium Oxide	%	MgO	--	2.14
8	Sulphur Trioxide	%	SO ₃	Max. 3.50	2.51
9	Chloride	%	Cl	Max. 0.10	0.01
10	Sodium Oxide	%	Na ₂ O	--	0.63
11	Potassium Oxide	%	K ₂ O	--	0.26
12	Total Alkalies (Na ₂ O+0.658 K ₂ O)	%		--	0.67
13	Tricalcium Silicate	%	C ₃ S	--	52.40
14	Di-Calcium Silicate	%	C ₂ S	--	15.68
15	Tricalcium Aluminate	%	C ₃ A	--	7.10
16	Tetra Calcium Alumino Ferrite	%	C ₄ AF	--	12.63
PHYSICAL PROPERTIES					
1	Specific surface (Blaine)	m ² /kg		--	335
2	Standard Consistency	%		--	29.25
3	Setting Time (Vicat Method)				
	Initial		Min. 60		195
	Final				290
4	Soundness by Le-chatelier Method	mm	Max. 10		1.00
5	Compressive strength ,	N/mm ²			
	2 days		Min 10.0		20.4
	7 days		-		35.8
	28 days*		Min. 42.5 & Max. 62.5		45.4

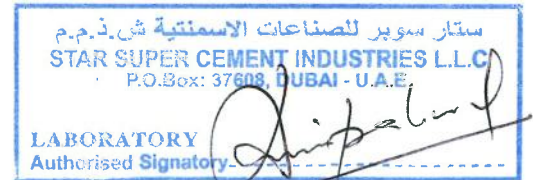
Test Method: BS EN 196

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Note: (i) This quality certificate is issued as indicative information for the person in whose name it is issued.

(ii) The performance and data may vary based on other parameters, such as storage, curing, additives, mixture, application and other external factors.

(iii)* 28 days strength for Week No 12 (18.03.2024 to 24.03.2024)



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شركة ستار للأسمنت ش.ذ.م.م

B-233 المنطقة الصناعية بجبل علي - ٢

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