



White Cement

MANUFACTURES TEST CERTIFICATE

Analysis					
No	Chemical properties	Units		EN 197-1, 52.5 limits(cement)	Results
1	Silicon dioxide	SiO ₂	%	----	23.79
2	Aluminium Trioxide	Al ₂ O ₃	%	----	3.73
3	Iron Trioxide	Fe ₂ O ₃	%	----	0.37
4	Calcium Oxide	CaO	%	----	64.6
5	Magnesium Oxide	MgO	%	Max: 5	1.95
6	Sulphur Trioxide	SO ₃	%	Max: 4	2.15
7	Sodium Oxide	K ₂ O	%	----	0.42
8	Potassium Oxide	Na ₂ O	%	----	0.15
9	Insoluble Residue	IR	%	Max: 5	0.5
10	Loss of ignition	LOI	%	Max: 5	<2
	Chloride content		%	Max: 0.1	0.015





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Physical properties	Units	EN 197-1, 52.5 limits	Results
Specific surface (Blaine)	cm ² /gr	-----	4000
Autoclave expansion	mm	Max: 10	0.4
Compressive strength			
2 days	MPa	Min: 20	22.5
7 days	Mpa		39.0
28 days	Mpa	Min: 52.5	54.5
Time of setting (Vicat)			
Initial	minute	Min: 45	110
Final	minute	-----	
Degree of Whiteness		----	91.5
Y-value	%	----	81
Free lime		----	1

Analysis			
Calculated compounds properties	Units	EN 197-1, 52.5 limits	Results
Tricalcium Silicate(C3S)	%	---	----
Tricalcium Aluminate(C3A)	%	---	---
Equivalent alkalies (Na ₂ O+0.658K ₂ O)	%	Max: 0.6	0.42
Ratio CaO / SiO ₂	%	> 2	2.7

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