

Benvid White Cement Co.



21-Nov-18

<i>Physical properties</i>	<i>Units</i>	<i>Practical approved</i>	<i>Actual result</i>	<i>Standard acceptable level</i>
Fineness Specific Surface	Cm ² /g	3600-4200	3900	Min. 3200
Autoclave Expansion	%	0.05-0.2	0.08	max. 0.8

Compressive Strength

2 Days	Kg/Cm ²	230-280	250	Min. 100
3 Days	Kg/Cm ³	270-350	300	
7 Days	Kg/Cm ²	400-450	420	
28 Days	Kg/Cm ²	540-600	580	Min. 425

Vicat

Initial Setting Time	MINS	90-120	110	Min. 60
Final Setting Time	MINS	120-160	140	max. 480
Whiteness	%	89-91	90	

<i>Chemical analysis</i>		<i>Practical approved</i>	<i>Actual result</i>	<i>Standard acceptable level</i>
Silicon Dioxide	%SiO ₂	23.9-24.18	24	
Aluminium Trioxide	%Al ₂ O ₃	4.7-5.1	4.83	
Iron Trioxide	%Fe ₂ O ₃	0.3-0.39	0.34	
Calcium Oxide	%CaO	65.6-67.0	66	
Magnesium oxide	%MgO	0.8-1.2	0.9	Max. 5
Sulphur Trioxide	%SO ₃	1.7-2.1	1.9	Max. 3.5 C3A>8% Max. 3 C3A<8%
Sodium Oxide	%Na ₂ O	0.2-0.3	0.28	
Potassium Oxide	%K ₂ O	0.2-0.3	0.22	
Insoluble Residue	%Ins	0.3-0.6	0.36	Max. 0.75
Loss On Ignition	%LOI	1.0-1.9	1.2	Max. 3

QC. Manager: A.Sajadi.N

