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WHITE PORTLAND CEMENT "SCG" BRAND

PHYSICAL PROPERTIES			ASTM Standard			Typical Test Result		
Whiteness (Hunter)			-			92 - 94		
Fineness specific surface								
Air permeability test	cm ² /g		Min. 2800			3600 - 4000		
Time of setting								
Vicat test : Initial set	minute		Min. 45			150 - 230		
Final set	minute		Max. 375			240 - 320		
Soundness : Autoclave expansion	%		Max. 0.8			(-0.02) - 0.02		
Air content of mortar	%		Max. 12.0			5.0 - 8.0		
False set	%		Min. 50			60 - 80		
Compressive strength (mortar cubes)			Kgf/cm ²	Mpa	psi	Kgf/cm ²	Mpa	psi
3 days	Min		122	12.0	1740	260 - 310	25.5 - 30.4	3698 - 4409
7 days	Min		194	19.0	2760	340 - 400	33.3 - 39.2	4835 - 5689
28 days	Min		285	28.0	4060	420 - 490	41.2 - 48.0	5973 - 6969
CHEMICAL PROPERTIES			ASTM Standard			Typical Test Result		
Silicon dioxide	(SiO ₂)	%	-			22.3 - 23.3		
Aluminium oxide	(Al ₂ O ₃)	%	-			4.0 - 5.0		
Ferric oxide	(Fe ₂ O ₃)	%	-			0.15 - 0.3		
Calcium oxide	(CaO)	%	-			65.5 - 67.5		
Magnesium oxide	(MgO)	%	Max. 6.0			0.8 - 1.1		
Sulfur trioxide	(SO ₃)	%	-			-		
when C ₃ A > 8.0			Max. 3.5			2.8 - 3.4		
Total Alkali as Na ₂ O		%	Max. 0.6			0.30 - 0.50		
Loss on ignition		%	Max. 3.0			2.0 - 3.0		
Insoluble residue		%	Max. 0.75			0.1 - 0.3		
Tricalcium silicate	(C ₃ S)	%	-			55 - 70		
Dicalcium silicate	(C ₂ S)	%	-			15 - 25		
Tricalcium aluminate	(C ₃ A)	%	-			10 - 13		

ASTM C 150-12
 Code : EL01

Construction Business Division Manager

(Authorized Signature)

21 January 2021