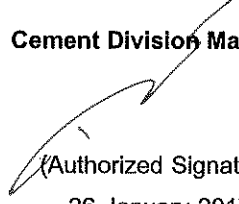


WHITE PORTLAND CEMENT "MONTANIA" BRAND

PHYSICAL PROPERTIES			ASTM Standard			Typical Test Result		
Whiteness (Hunter)			-			92 - 94		
Fineness specific surface								
Air permeability test	cm ² /g		Min. 2800			4000 - 4400		
Time of setting								
Vicat test : Initial set	minute		Min. 45			60 - 100		
Final set	minute		Max. 375			100 - 130		
Soundness : Autoclave expansion	%		Max. 0.8			(-0.02) - 0.02		
Air content of mortar	%		Max. 12.0			4.0 - 7.0		
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	24.5 - 30.4	3555 - 4410
7 days	Min		194	19.0	2760	350 - 410	34.3 - 40.2	4978 - 5830
28 days	Min		285	28.0	4060	430 - 500	44.0 - 51.0	6400 - 7396
CHEMICAL PROPERTIES			ASTM Standard			Typical Test Result		
Silicon dioxide	(SiO ₂)	%	-			22.0 - 23.0		
Aluminium oxide	(Al ₂ O ₃)	%	-			4.0 - 4.8		
Ferric oxide	(Fe ₂ O ₃)	%	-			0.15 - 0.3		
Calcium oxide	(CaO)	%	-			66.5 - 68.5		
Magnesium oxide	(MgO)	%	Max. 6.0			0.7 - 1.0		
Sulfur trioxide	(SO ₃)	%	Max. 3.5			2.6 - 3.2		
Total Alkali as Na ₂ O		%	Max. 0.6			0.15 - 0.35		
Loss on ignition		%	Max. 3.0			2.0 - 3.0		
Insoluble residue		%	Max. 0.75			0.1 - 0.3		
Tricalcium silicate	(C ₃ S)	%	-			50 - 65		
Dicalcium silicate	(C ₂ S)	%	-			20 - 30		
Tricalcium aluminate	(C ₃ A)	%	-			10 - 13		

ASTM C 150 - 07

Code : EL02

Cement Division Manager

 (Authorized Signature)

26 January 2017