

Quality Control .Lab  
Test Report

Product Name: Ordinary Portland Cement Type 1-525

Test Parameters	Method	Range of method ISIRI	Result	Product Range
Loss on Ignition LOI %	ISIRI 1692	Max 3.00	1.9	2.0± 0.5
Silicon Dioxide SiO2 %	" "	Min 20	20.5	-
Aluminium Oxide Al2O3 %	" "	Max 6	5.3	-
Ferric Oxide Fe2O3 %	" "	Max 6	3.5	-
Calcium Oxide CaO %	" "	-	63.7	-
Magnesium Oxide MgO %	" "	Max 5.00	1.70	Max 2.5
Sulfur Trioxide SO3 %	" "	Max 3.00	2.50	2.5± 0.3
Sodium Oxide Na2O %	ISIRI 1695	-	0.38	0.4 ± 0.1
Potassium Oxide K2O %	" "	-	0.88	0.9 ± 0.1
Insoluble Residue IR %	ISIRI 1692	Max 0.75	0.37	0.4 ± 0.2
Free Cao F.CaO %	ISO774	-	1.2	-
Lime Saturation Factor LSF %	Bouge Method	-	96.6	-
Silica ration SIM %	" "	-	2.33	-
Alumina ratio ALM %	" "	-	1.51	-
Tricalcium Silicate C3S %	Bouge Method	-	55.7	-
Dicalcium Silicate C2S %	" "	-	16.6	-
Tricalcium Aluminate C3A %	" "	-	8.1	-
Calcium Alumino Ferrite C4AF %	" "	-	10.7	-

PHYSICAL TESTS

Fineness				
Blaine Cm2/gr	ISIRI 390	Min 2800	3400	3300 ± 200
Water for Normal Consistency %	ISIRI 11895	-		-
Setting Time - Vicat Test	ISIRI 392	-		-
Initial Min	" "	Min 45	130	Min 100
Final hr	" "	Max 6.0	3:30	Max 5
Compressive Strength 2 days kg/cm2	ISIRI 393	Min 200	230	Min 200
3 days " "	" "	-	-	-
7 days " "	" "	-	410	-
28 days " "	" "	Min 525	540	Min 525
Autoclave Expansion %	ISIRI 391	Max 0.8	0.09	Max 0.2

Interpretation Sample:

Technical Manager

Lab Manager

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