

Weekly Test Certificate Sulphate Resistant Portland Cement (SRC)

From: 03-Dec-10 To: 09-Dec-10

Reporting Date: 23-Jan-11

Test Details	Results Obtained	Requirements as Per SASO 570 / 1994		
Chemical Analysis				
Loss on Ignition %	1.48	4 % Max.		
I.R.	0.48	1.5 % Max.		
SiO ₂ %	20.89			
Al ₂ O ₃ %	4.15			
Fe ₂ O ₃ %	5.05			
CaO %	63.15			
MgO %	1.42	5 % Max.		
SO ₃ %	2.30	2.5 % Max.		
LSF %	92.31	Between 66 to 102		
C ₃ A %	2.45	< 5.0 %		
C ₄ AF %	15.37			
2C ₃ A + C ₄ AF %	20.28	25 % Max.		
Total Alkalies Equivalent %	0.50			
Physical Tests				
Fineness (Cm² / Gram)				
Sp. Surface Area (Blaine)	3437	2500 Min.		
Setting Time Vicat test (Minutes)				
Initial	137	45 Min.		
Final	218	480 Max.		
Soundness				
LeChatelier Expansion (mm)	0.8	10 mm Max.		
Autoclave Expansion %	0.02	0.8 % Max.		
Compressive Strength Prism Specimen, SASO, PSI				
	PSI	MPa	PSI	MPa
2 Days	2900	20.3	1450 Min.	10 Min.
3 Days	3642	25.4	1740 Min.	12 Min.
7 Days	4920	34.2	3190 Min.	22 Min.
28 Days	7414	51.4	4350 Min.	30 Min.

Test Specified by ASTM C150 Type-V

Sulphate resistance, 14 days, % Expansion (C452) 0.022

Requirements as per
ASTM C150:2007

0.04 Max.

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of SASO 570 : 1994 and BS 4027 : 1996 for SULPHATE RESISTING PORTLAND CEMENT, CLASS 42.5N LA.


Manager Quality Control


شركة إسمنت الرياض
Riyadh Cement Co.
C.R. 1010210405
س.ت / ٤٠٥ / ١٠١٠٢١٠٤٠٥


Plant Director