



شركة قطر الوطنية لصناعة الاسمنت
QATAR NATIONAL CEMENT COMPANY (S.A.Q.)

TEST CERTIFICATE

QNCC.LAB.C2
 Rev.NO.02

ORDINARY PORTLAND CEMENT

BS 12 / EN 196 :1996 (Strength Class 42.5R)
 Cement Dispatched to M/s **Teyseer Bldg.Material & Transport Co**
 Post Box-4333 Fax # 4601456

Date of Issue: 12.03.06 Weekending: 10.02.06

Description	Requirement	Results	
Chemical Composition			
Silicon dioxide SiO ₂		20.85	%
Aluminum oxide Al ₂ O ₃		4.60	%
Ferric oxide Fe ₂ O ₃		3.24	%
Calcium oxide CaO		63.45	%
Magnesium oxide MgO	5.0* max	2.79	%
Sulfur trioxide SO ₃	3.5 max	2.82	%
Alkalies (Na ₂ O+0.658K ₂ O)		0.60	%
Loss on ignition LOI	3.0 max	1.00	%
Insoluble residue IR	1.5 max	1.02	%
Tricalcium silicate C ₃ S	} 66.7* min	72.64	%
Dicalcium silicate C ₂ S			
Tricalcium aluminate C ₃ A		6.71	%
Tetracalcium aluminoferrite C ₄ AF		9.85	%
CaO/SiO ₂	2.0* min	3.04	
Chloride Cl	0.10 max	0.015	%
Physical Properties			
Fineness(Blaine Air Permiability Test)		3260	cm ² /g
Soundness (Le Chatelier Expansion)	10.0 max	1.0	mm
Compressive Strength {	2-Days	22.19	N/mm ²
	28-Days	46.32	N/mm ²
Initial Setting Time (Vicat Test)	60 min	160	min

Remarks :- The above Chemical & Physical results comply BS 12:1996 requirements.
 *Applies to clinker , ** And not exceeding 62.5.

For Qatar National Cement Company

(Mohd. Nayyar Mahmood)
 Head of Quality Control



(Mohd. Ali Al-Sulaiti)
 General Manager