

Cement Type II  
(Low Alkali)

## STANDARD REQUIREMENTS

ASTM C 150 Tables 1 and 3

Production Period: 03-Dec-10 --- 09-Dec-10

Reporting Date: 23-Jan-11

## CHEMICAL

## PHYSICAL

Item	Spec. Limit	Test Results	Item	Spec. Limit	Test Results
SiO <sub>2</sub> (%)	A	20.73	Blaine fineness (m <sup>2</sup> /kg)	260 min	347
Al <sub>2</sub> O <sub>3</sub> (%)	6.0 max	4.41	430 max		
Fe <sub>2</sub> O <sub>3</sub> (%)	6.0 max	4.67	Autoclave expansion (%)	.80 max	0.03
CaO (%)	A	63.24	Compressive Strength (MPa)	min	
MgO (%)	6.0 Max	1.44	3 Days	7.0	19.4
SO <sub>3</sub> (%)	3.0 max	2.37	7 Days	12.0	28.1
Ignition Loss (%)	3.0 max	1.57	Time of Setting (in minutes)(Vicat)		
Na <sub>2</sub> O (%)	A	0.20	Initial Not less than	45	131
K <sub>2</sub> O (%)	A	0.50	Final Not More than	375	207
Insoluble residue (%)	0.75 max	0.49	Heat of Hydration (kJ/kg) 7 days	290	260
Limestone (%)	5.0 max				
Potential (%)					
C <sub>3</sub> A %	8 max	3.79			
C <sub>4</sub> AF	A	14.22			
C <sub>4</sub> AF +2(C <sub>3</sub> A)	A	21.80			
C <sub>3</sub> S +4.75(C <sub>3</sub> A)	100 max	74.81			
A	Not Applicable				

Registered  
ISO 9001:2008

## OPTIONAL REQUIREMENTS

ASTM C 150 Tables 2 and 4

## CHEMICAL

## PHYSICAL

Item	RCC Limit	Test Results	Item	RCC Limit	Test Results
Equivalent Alkalies %	0.55	0.50	False Set (%)	70 min	82.64
			Compressive Strength (MPa) 28 Days, Average of Last 06 Days	36 min	43.35

We certify that the above described cement, at the time of shipment, meets the Chemical and Physical requirements of ASTM C 150 - Type-II Low Alkali Cement.

RCC

شركة إسمنت الرياض

Signature: \_\_\_\_\_

Manager Quality Control

C.R. 1010210405

Signature: \_\_\_\_\_

Plant Director / AGM Projects