



الشركة العربية اليمنية للإسمنت المحدودة Arabian Yemen Cement Company Ltd

Quality Control Department

AI-ARABIA CEMENT

C/QC/Spec/EN/CEMIIBP/325/004

Date of Issue: 16-Mar-15

In accordance with European Standard Specification

EN 197-1:2011 CEM II/B-P 32.5N

Chemical Tests		Unit	Std. Specifications		Typical Analysis
			Min.	Max.	
Silicon dioxide	SiO ₂	%	-	-	24.80
Aluminum Oxide	Al ₂ O ₃	%	-	-	8.30
Ferric Oxide	Fe ₂ O ₃	%	-	-	6.50
Calcium Oxide	CaO	%	-	-	≥46.50
Magnesium Oxide	MgO	%	-	5.00	< 3.0
Potassium Oxide	K ₂ O	%	-	-	<0.45
Sodium Oxide	Na ₂ O	%	-	-	<1.30
Sulphuric anhydride	SO ₃	%	-	3.50	2.15
Chloride	Cl	%	-	0.10	<0.05
Loss on Ignition	L.O.I.	%	-	-	< 2.50
Insoluble Residue	I.R.(KOH)	%	-	-	< 5.00
Tricalcium Aluminate	C3A	%	-	-	11.01
Tetracalciumaluminoferrite	C4AF	%	-	-	19.78

Physical Tests		Unit	Std. Specifications		
			Min.	Max.	
Fineness, Specific surface	Blaine	M ² /kg	-	-	≥ 385
Setting Time	Initial	Minutes	75	-	≤ 155
	Final	Minutes	-	-	≤ 215
Soundness (Le Chatelier)		mm	-	10	≤ 1.0
Compressive Strength	2 Days	MPa	-	-	≥16.0
	7 Days	MPa	16	-	≥ 27
	28 Days	MPa	32.5	52.5	43±2

We certify that the above described cement, at the time of despatch, meets the chemical and physical requirements of the EN 197-1 - CEM II/B-P 32.5N.

(Muhammad Hanif Javed)
Quality Control Manager