



Limestone cement product 32.5
with the highest standards
(chemical and physical) according
to Egyptian and European standard
[CEM II/B-L 32.5 N]



CERTIFICATE

*Chemical Composition and Physical Properties of Limestone cement
[CEM II/B-L 32.5 N]*

EL-ARISH CEMENT COMPANY



ACCREDITED[®]
Management
Systems
Certification Body
HSCB-113
Cert No: GIEG-0057-QC

NO	DESCRIPTION (EN 197-1 CEM II/B-L 32.5N)	UNIT	VALUE
CHEMICAL COMPOSITION			
1	Silicon Dioxide	SiO ₂	% 15.45
2	Aluminum Oxide	AL ₂ O ₃	% 4.72
3	Ferric Oxide	Fe ₂ O ₃	% 3.06
4	Calcium Oxide	CaO	% 67.76
5	Magnesium Oxide (Max 5.0)	MgO	% 0.17
6	Sulfur Trioxide (Max 4.0)	SO ₃ <4	% 2.71
7	Chloride < 0.10	Cl ⁻ <0.1	% 0.02
8	Insoluble residue (Max 5.0)	I.R.< 5	% 0.45
9	Loss On ignition	L.O.I	% 13.22
10	Free-Lime < 2	F-CaO< 2	% 1.2
11	Chromium Hexavalent (Max 2.0)	Cr VI< 2	ppm 1.3
PHYSICS TEST			
1	Fineness (Blaine)		Cm ² /g 4875
2	Water consistency		% 27
3	Initial setting time	Min 75	Minutes 117
4	Final setting time		Minutes 177
5	7Day Flexural		MPa 6.1
6	7Day (Compressive Strength)	Min 16	MPa 32.1
7	28 Day Flexural		MPa 7.7
9	28 Day (Compressive Strength)	Min 32.5 – Max52.5	MPa 43
9	Soundness	Max 10mm	mm 1.5

