Portland cement product 42.5
with the highest standards
(chemical and physical) according
to Egyptian and European standard
[CEM | 42.5N]



CERTIFICATE

Chemical Composition and Physical Properties Ordinary Portland cement [CEM I 42.5N]

EL-ARISH CEMENT COMPANY





System Sody

Certi No: GIEG-0057-QC

MSCR-113

O	DESCRIPTION (EN 197-1 CEM I 42.5N)		UNIT	VALUE
СН	EMICAL COMPOSITION			
1	Silicon Dioxide	SiO ₂	%	19.58
2	Aluminum Oxide	AL_2O_3	%	5.41
3	Ferric Oxide	Fe ₂ O ₃	%	3.41
4	Calcium Oxide	CaO	%	63.64
5	Magnesium Oxide (Max 5.0)	MgO	%	0.91
6	Sulfur Trioxide (Max 4.0)	SO ₃ <4	%	2.29
7	Chloride < 0.10	Cl <0.1	%	0.048
8	Insoluble residue (Max 5.0)	I.R< 5	%	0.35
9	Loss On ignition	L.O.I	%	4.65
10	Free-Lime < 2	F-CaO<2	%	1.1
11	Chromium Hexavalent (Max 2.0)	Cr VI< 2	ppm	1.5
PH	YSICS TEST			
1	Fineness (Blaine)		Cm2/g	2984
2	Water consistency		%	27.2
3	Initial setting time	Min 75	Minutes	150
4	Final setting time		Minutes	189
6	2Day (Compressive Strength)		MPa	20.9
8	28Day (Compressive Strength))		MPa	48.3
9	Soundness	Max 10mm	mm	1.5













