

The clinker product 52.5 is of the highest standards (chemical and physical) according to Egyptian and European standard



**CERTIFICATE**

*Chemical composition and physical properties for Ordinary Portland Clinker (52.5 N)*

***El-Arish Cement Company***



NO	DESCRIPTION (EN 197-1 CEM 1 52.5 N)		UNIT	VALUE
<b>CHEMICAL COMPOSITION</b>				
1	Silicon Dioxide	SiO <sub>2</sub>	%	21.02
2	Aluminum Oxide	Al <sub>2</sub> O <sub>3</sub>	%	6.11
3	Ferric Oxide	Fe <sub>2</sub> O <sub>3</sub>	%	3.89
4	Calcium Oxide	CaO	%	65.78
5	Magnesium Oxide	MgO	%	0.99
6	Sulfur Trioxide	SO <sub>3</sub>	%	0.80
7	Chloride	Cl <sup>-</sup> ≤ 0.1	%	0.048
8	Loss On ignition	L.O.I	%	0.28
9	Insoluble residue	IR	%	0.3
10	Free-Lime	F-CaO < 2	%	1.2
11	Chromium Hexavalent	Cr VI ≤ 2	ppm	1.0
<b>MODULES</b>				
1	Lime Saturation Factor	LSF		94.15
2	Silica Modulus	SM		2.1
3	Alumina Modulus	AM		1.57
<b>PHASE COMPOSITION</b>				
1	Tri Calcium Silicate	C <sub>3</sub> S > 52	%	54.19
2	Di Calcium Silicate	C <sub>2</sub> S	%	19.41
3	Tri Calcium Aluminates	C <sub>3</sub> A	%	9.62
4	Tetra Calcium Aluminum Ferrite	C <sub>4</sub> AF	%	11.83

