SINAI CEMENT
أسمنت سينا

QUALITY CERTIFICATE

Sinai Cement co. (Quality Control &Labs)

Portland Cement
Class: CEM I 52.5 N
QC Department

Specification: ES 4756-1:2022
Standard: BS EN 197-1:2011
EC-Certificate of Conformity 0770-CPR-2095-01-24

September-2025
To whom it may concern

We declare, based on the below analysis, that the cement covered by the certificate conforms to annex ZA of EN 197-1 with conformity established according to EN 197-2 as given in annex ZA of EN 197-1

Chemical Composition - Norm: EN196-2:2013		Results	Standard Requirements Maximum
Silicon Oxide	SiO_2	19.86%	
Aluminum Oxide	Al_2O_3	5.02%	
Ferric Oxide	Fe_2O_3	3.57%	
Calcium Oxide	CaO	64.56%	
Magnesium Oxide	Mgo	0.65%	
Sulphate	SO_3	3.27%	4.0%
Potassium Oxide	K_2O	0.21%	
Sodium Oxide	Na_2O	0.31%	
Chloride	Cl	0.037%	0.1%
Insoluble Residue	I.R	0.53%	5.0%
Loss On Ignition	LOI	2.24%	5.0%
Free Lime	F.L	1.53%	
Tricalcium Silicate	C3S	57.47	
Dicalcium Silicate	C2S	13.58	
Tricalcium Aluminates	C3A	7.27	
Tetra calcium alumino ferrite	C4AF	10.85	
Alkali Equivalent	A.E	0.45	
Chromium Hexavalent	Cr^{+6}	1.25	

Physical and Mechanical Properties Compressive Strength - Norm: EN196-1:2016	Results	Standard Requirements Minimum.
2 days	28.0	20.0 Mpa
28 days	58.1	52.5 Mpa

Setting Time-Norm: EN196-3:2016	Results	Standard Requirements
Initial Time	135	45 minutes minimum (EN 196-3)
Final Time	02:50	Hours
Standard Consistency	28.9	%
Expansion	1	10 mm maximum

Fineness-Norm: EN 196-6:2017-03	Results	Standard Requirements
Fineness by Blaine	3716.0	cm^2/g

All the Above chemical, mechanical and physical analysis comply with the above-mentioned standard requirements.