

CEMENT CERTIFICATE

PORTLAND POZZOLANIC CEMENT CEM II (32.5 N)

DESCRIPTION		LIMITATIONS BS EN 197 - 1 (2011) and ES 4756 - 1 (2022)	OBTAINED RESULTS
PHYSICAL TEST			
Soundness (Expansion) (mm)		≤ 10	1.0
Fineness , Blaine (cm^2/g)		..	4350
Intial setting time (minute)		≥ 75	165
Water consistency (%)		..	28
Compressive Strength (Mpa)	7 days	≥ 16	21.0
	28 days	≥ 32.5	34.0
CHEMICAL ANALYSIS			
Silicone Dioxide (SiO ₂) %		..	18.54
Aluminium Oxide (Al ₂ O ₃) %		..	4.75
Ferric Oxide (Fe ₂ O ₃) %		..	4.20
Calcium Oxide (CaO) %		..	59.40
Magnesium Oxide (MgO) %		..	1.68
Sulfer Trioxide (SO ₃) %		≤ 3.5	3.20
Sodium Oxide (Na ₂ O) %		..	0.56
Potassium Oxide (K ₂ O) %		..	0.27
Chloride (Cl) %		≤ 0.1	0.04

Quality Manager
Dr. Ragab Abdelbaky

Date
22-May-25