



TEST CERTIFICATE

CEM II A-L 42.5 R

WEEK NO: 26 Year 2024
DATE OF REPORTING: 2/Aug/2024
Average of dispatched cement From 24/Jun/2024 To 30/Jun/2024
sample and tested in accordance with the requirements of the Tanzanian standard.

TZS 727:2002. Equivalent to EN 197-1

1. Chemical Test

Properties	Unit	Test Result	Specified Requirement TZS 727:2002	TZS
Loss on ignition (LOI)	% (m/m)	6.37	No requirement	
Insoluble residue (I R)	% (m/m)	3.39	5.0 max	
Sulfate (SO ₃)	% (m/m)	2.24	4.0 max	
Silicon dioxide (SiO ₂)	% (m/m)	18.31	No requirement	
Aluminium Oxide (Al ₂ O ₃)	% (m/m)	6.67	No requirement	
Ferric Oxide (Fe ₂ O ₃)	% (m/m)	3.54	No requirement	
Calcium Oxide (CaO)	% (m/m)	61.39	No requirement	
Magnesium Oxide (MgO)	% (m/m)	1.52	5.0 max	
Potassium Oxide (K ₂ O)	% (m/m)	0.24	No requirement	
Sodium Oxide (Na ₂ O)	% (m/m)	0.20	No requirement	
Total Alkali as Na ₂ O	% (m/m)	0.36	0.60 max	
Chlorides (Cl)	% (m/m)	0.004	0.10 max	

2. Physical Test

Fineness	M ² /Kg	391	No requirement	
Soundness	mm	1.36	10 max	
Initial setting time	min	177	60 min	
Final setting time	min	239	No requirement	

Compressive Strength

2 Days	MPa	22.54	≥20	
7 Days	MPa	33.46		
28 Days	MPa	51.55	≥42.5 - ≤62.5	

Remarks:

QUALITY HEAD



PRODUCTION HEAD

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