



TEST CERTIFICATE

CEM I 42.5 N

WEEK NO: 16 Year 2025
DATE OF REPORTING: 8/Apr/2025
Average of dispatched cement From 14/Apr/2025 To 20/Apr/2025
The sample was prepared and tested in accordance with the requirements of the Tanzanian Bureau of Standards

TZS 727-1/EAS18-1 Equivalent to EN 197-1

1. Chemical Test

Properties	Unit	Test Result	Specified Requirement TZS 727-1/EAS 18-1
Loss on ignition (LOI)	% (m/m)	3.71	No requirement
Insoluble residue (I R)	% (m/m)	3.15	5.0 max
Sulfate (SO_3)	% (m/m)	2.23	3.5 max
Silicon dioxide (SiO_2)	% (m/m)	20.56	No requirement
Aluminium Oxide (Al_2O_3)	% (m/m)	6.48	No requirement
Ferric Oxide (Fe_2O_3)	% (m/m)	3.38	No requirement
Calcium Oxide (CaO)	% (m/m)	62.36	No requirement
Magnesium Oxide (MgO)	% (m/m)	0.57	5.0 max
Potassium Oxide (K_2O)	% (m/m)	0.45	No requirement
Sodium Oxide (Na_2O)	% (m/m)	0.23	No requirement
Total Alkali as Na_2O	% (m/m)	0.53	0.60 max
Chlorides (Cl)	% (m/m)	0.004	0.10 max

2. Physical Test

Fineness	M^2/Kg	396	No requirement
Soundness	mm	1.36	10 max
Initial setting time	min	83	60 min
Final setting time	min	117	No requirement

Compressive Strength

2 Days	MPa	26.37	≥ 20
7 Days	MPa	44.40	
28 Days	MPa	55.38	$\geq 42.5 - \leq 62.5$

Remarks:



QUALITY HEAD





PRODUCTION HEAD

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