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MONTHLY CERTIFICATE OF CHEMICAL AND PHYSICAL TESTS TWIGA EXTRA, CEM II/B-L CLASS 32.5 R JANUARY, 2026

Sampled and tested in accordance with the requirements of the Tanzanian Bureau of Standards
TZS 727-1/EAS 18-1. Equivalent to EN 197-1


CHEMICAL TEST RESULTS			
Test Parameters	Unit	Test results monthly average	Specified requirements
Loss on ignition	[%]	9.32	No Requirement
Insoluble Residue	[%]	1.22	Less than 5.0%
CaO	[%]	56.3	No Requirement
SiO ₂	[%]	18.9	No Requirement
CaO/SiO ₂	[-]	2.99	Not less than 2.0%
Al ₂ O ₃	[%]	5.34	No Requirement
Fe ₂ O ₃	[%]	3.35	No Requirement
MgO	[%]	1.42	Not more than 5.0%
SO ₃	[%]	2.60	Less than 3.5%
K ₂ O	[%]	0.42	No Requirement
Na ₂ O	[%]	0.13	No Requirement
P ₂ O ₅	[%]	0.48	No Requirement
TiO ₂	[%]	0.65	No Requirement
MnO	[%]	0.06	No Requirement
(Na ₂ O+0.658K ₂ O)	[%]	0.41	No Requirement
Cl	[%]	0.002	Less than 0.10%
PHYSICAL TEST RESULTS			
Density	[kg/m ³]	3100	No requirement
Specific Surface (Blaine)	[m ² /kg]	460	No Requirement
Sieving Residue on 45 mic.	[%]	12.3	No Requirement
Initial setting time	[minutes]	118	Not less than 75 minutes
Final setting time	[minutes]	174	Not Requirement
Soundness (expansibn)	[mm.]	1.0	Not more than 10 mm.
Compressive strength 2 days	[MPa]	15.0	More than 10 MPa.
Compressive strength 28 days*	[MPa]	38.4	Between 32.5 and 52.5 MPa

Remarks: *The 28 days strength is the average of previous month.

Wazo Hill, 2026/02/04th

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Quality Control Manager


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Plant Manager


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Commercial Director

Board Directors:
Hakan Gurdal (Turkish)
Alfonso Velez (Spanish)
Francesco Brambilla (Italian)

Ruth Zaipuna (Tanzanian)
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