

Tanzania Portland Cement Public Limited Company

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

JULY, 2025

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

	CHEMICA	AL TEST RESULTS	
Test	Unit	Test results monthly average	Specified requirements
Loss on ignition	[%]	9.50	No Requirement
Insoluble Residue	[%]	1.22	Less than 5.0%
CaO	[%]	57.1	No Requirement
SiO ₂	[%]	19.8	No Requirement
CaO/SiO ₂	[-]	2.88	Not less than 2.0%
Al ₂ O ₃	[%]	5.45	No Requirement
Fe ₂ O ₃	[%]	3.35	No Requirement
MgO	[%]	1.16	Not more than 5.0%
SO ₃	[%]	2.75	Less than 3.5%
K ₂ O	[%]	0.43	No Requirement
Na ₂ O	[%]	0.09	No Requirement
P ₂ O ₅	[%]	0.44	No Requirement
ΓiO ₂	[%]	0.57	No Requirement
MnO	[%]	0.07	No Requirement
Na ₂ O+0.658K ₂ O)	[%]	0.37	No Requirement
Cl	[%]	0.002	Less than 0.10%
	PHYSICAL	TEST RESULTS	
Density	[kg/m³]	3100	No requirement
Specific Surface (Blaine)	[m²/kg]	452	No Requirement
lieving Residue on 45 mic.	[%]	12.0	No Requirement
nitial setting time	[minutes]	142	Not less than 75 minutes
inal setting time	[minutes]	192	Not Requirement
oundness (expansion)	[mm.]	1.0	Not more than 10 mm.
Compressive strength 2 days	[MPa]	15.5	More than 10 MPa.
Compressive strength 28 days*	[MPa]	35.8	Between 32.5 and 52.5 MPa

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

Wazo Vill. 2025/08/05

Quality Control Manager

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

Ruth Zaipuna (Tanzanian) Gary Whitehead (British) Oswald Urassa (Tanzanian) Commercial Director