

Heidelberg Materials

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Commercial Director

MONTHLY CERTIFICATE OF CHEMICAL & PHYSICAL TESTS TWIGA PLUS, CEM II/B-M CLASS 42.5 N JUNE, 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

125	/2/-1/EAS 18-1.		19/-1
	CHEMICAL TH	EST RESULTS	2
Test	Unit	Test results	Specified requirements
Loss on Ignition	[%]	7.21	No requirement
Insoluble Residues	[%]	1.42	Less than 5.0%
CaO	[%]	53.0	No requirement
SiO ₂	[%]	22.3	No requirement
CaO/SiO ₂	[-]	2.37	Not less than 2.0%
Al ₂ O ₃	[%]	5.73	No requirement
Fe ₂ O ₃	[%]	3.81	No requirement
MgO	[%]	1.96	Not more than 5.0%
SO ₃	[%]	2.64	Less than 3.5%
K ₂ O	[%]	0.49	No requirement
Na ₂ O	[%]	0.18	No requirement
P ₂ O ₅	[%]	0.50	No requirement
TiO ₂	[%]	1.05	No requirement
MnO	[%]	0.08	No requirement
(Na ₂ O+ 0.658 K ₂ O)	[%]	0.50	No requirement
CI-	[%]	0.001	Less than 0.10%
	PHYSICAL TES	ST RESULTS	
Density	[kg/m3]	3100	No requirement
Specific Surface (Blaine)	[m²/kg]	467	No requirement
Sieving Residue on 45 mic. mesh	[%]	8.9	No requirement
nitial Setting Time	[Minutes]	154	Not less than 60 minutes
Final Setting Time	[Minutes]	216	No requirement
Soundness (Expansion)	[mm]	1.0	Not more than 10.0 mm
Compressive Strength 2 days	[MPa]	17.4	More than 10.0 MPa
Compressive Strength 28* *days*	[MPa]	44.7	Between 42.5 and 62.5 Mpa

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

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Quality Control Manager

Plant Manager

Rish Laipuna (International Gary Whitehead (Buffish) Oswald Urassa (Tarabolish)

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