

Heidelberg Materials

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MONTHLY CERTIFICATE OF CHEMICAL & PHYSICAL TESTS TWIGA PLUS, CEM II/B-M CLASS 42.5 N APRIL, 2024

Sampled and tested in accordance with the requirements of the Tanzanian Bureau of Standards

TZS 727-1/EAS 18-1

	CHEMICAL T	EST RESULTS	
Test	Unit	Test results	Specified requirements
Loss on Ignition	[%]	8,32	No requirement
Insoluble Residues	[%]	1.20	Less than 5.0%
CaO	[%]	56.8	No requirement
SiO ₂	[%]	19.6	No requirement
CaO/SiO ₂	H	2.90	Not less than 2.0%
Al ₂ O ₃	[%]	4.71	No requirement
Fe ₂ O ₃	[%]	2.88	
MgO	[%]	1.57	No requirement Not more than 5.0%
SO ₃	[%]	2.52	Less than 3.5%
K ₂ O	[%]	0.43	
Na ₂ O	[%]	0.26	No requirement
P ₂ O ₅	[%]	0.16	No requirement
TiO ₂	[%]	0.71	No requirement
MnO	[%]	0.09	No requirement
(Na ₂ O+ 0.658 K ₂ O)	[%]		No requirement
Cl	[%]	0.54	No requirement
		0.001	Less than 0.10%
Density	PHYSICAL TES [kg/m3]		
Specific Surface (Blaine)	[m²/kg]	3100	No requirement
Sieving Residue on 45 mic. mesh		446	No requirement
nitial Setting Time	[%]	9.6	No requirement
Soundness (Expansion)	[Minutes]	143	Not less than 60 minutes
	[mm]	1.0	Not more than 10.0 mm
Compressive Strength 2 days	[MPa]	18.2	More than 10.0 MPa
Compressive Strength 28* *days*	[MPa]	44.6	Between 42.5 and 62.5 Mpa

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

Wazo Hill, 2024/05/06th

Quality Control Manager

Plant Manager

 If Econolitarisation, City Visite Editions Commercial Director

Record Presions
Hostin Gorda (Terrison)
Additional Veter (Spanish)
Francesco Branchille (British)