



PNG TAIHEIYO CEMENT LIMITED
QUALITY CONTROL SECTION

PHONE (675)472 7499 FAX (675)472 4218/1300

MONTHLY TEST RESULTS FOR November-2025

FOR Lae Clinker Grinding & Cement Packing Plant

The following Results of Test conducted in accordance with ASTM C150-20 for Type 1,
 Ordinary Portland Cement (OPC)-Paradise Cement.

DESCRIPTION OF TEST					
CHEMICAL COMPOSITION		ASTM C150		UNIT	RESULTS
Silicon Dioxide	(SiO ₂)			%	20.71
Aluminum Oxide	(Al ₂ O ₃)			%	5.25
Ferric Oxide	(Fe ₂ O ₃)			%	3.18
Calcium Oxide	(CaO)			%	64.78
Magnesium Oxide	(MgO)	Max.	6.0	%	1.61
Sulphur Trioxide	(SO ₃)	Max.	3.5	%	2.06
Loss-On-Ignition	(LOI)	Max.	3.5	%	2.38
Alkali	(0.658K ₂ O+Na ₂ O)			%	0.45
Phosphorus Pentoxide	(P ₂ O ₅)			%	0.18
Insoluble Residue	(IR)	Max.	1.5	%	0.10
Limestone		Max.	5.0	%	3.6
L.S.F				%	95.4
S.M					2.46
I.M					1.65
C ₃ S				%	60.6
C ₂ S				%	13.6
C ₃ A				%	8.5
C ₄ AF				%	9.7
PHYSICAL					
Blaine (Air Permeability App)		Min.	2600	cm ² /g	3,310
45µm Residue				%	9.6
Initial Time		Min.	45	mins	198
		Max.	375	mins	300
Water Demand				%	25.0
Compressive Strength	3Days	Min.	12	N/mm ²	20.1
	7Days	Min.	19	N/mm ²	29.1
	28Days	Min.	28	N/mm ²	36.2

We hereby certify that the content of the report is correct and accurate and that the paradise cement herein has been made and/or tested in accordance with the above specification and with the requirement of customers order.

Date : February 4th, 2026

PNG Taiheiyo Cement Limited
 Lae Plant

Mr. Robert Potit
 Senior Laboratory Technician

Mr. Kristianto Teguh
 Operations Manager