



PNG TAIHEIYO CEMENT LIMITED

QUALITY CONTROL SECTION

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

MONTHLY TEST RESULTS FOR May-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.

<u>DESCRIPTION OF TEST</u>					
<u>CHEMICAL COMPOSITION</u>		<u>ASTM C150</u>		<u>UNIT</u>	<u>RESULTS</u>
Silicon Dioxide	(SiO ₂)			%	20.22
Aluminum Oxide	(Al ₂ O ₃)			%	5.32
Ferric Oxide	(Fe ₂ O ₃)			%	3.20
Calcium Oxide	(CaO)			%	64.12
Magnesium Oxide	(MgO)	Max.	6.0	%	1.30
Sulphur Trioxide	(SO ₃)	Max.	3.5	%	2.10
Loss-On-Ignition	(LOI)	Max.	3.5	%	2.62
Alkali	(0.658K ₂ O+Na ₂ O)			%	0.61
Phosphorus Pentoxide	(P ₂ O ₅)			%	0.26
Insoluble Residue	(IR)	Max.	1.5	%	0.21
Limestone		Max.	5.0	%	3.5
L.S.F				%	96.3
S.M					2.37
I.M					1.66
C ₃ S				%	61.1
C ₂ S				%	11.9
C ₃ A				%	8.7
C ₄ AF				%	9.7
<u>PHYSICAL</u>					
Blaine (Air Permeability App)		Min.	2600	cm ² /g	3,230
45µm Residue				%	11.0
Initial Time		Min.	45	mins	200
		Max.	375	mins	298
Water Demand				%	23.8
Compressive Strength	3Days	Min.	12	N/mm ²	23.0
	7Days	Min.	19	N/mm ²	29.3
	28Days	Min.	28	N/mm ²	38.3

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 : August 23rd, 2025

PNG Taiheiyō Cement Limited

Lae Plant

Mr. Robert Potit

Senior Laboratory Technician

Mr. Kristanto Teguh

Operations Manager