



PNG TAIHEIYO CEMENT LIMITED  
 QUALITY CONTROL SECTION  
 PHONE (675)472 7499 FAX (675)472 4218/1300

## MONTHLY TEST RESULTS FOR March-2026

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.

<b>DESCRIPTION OF TEST</b>					
<b>CHEMICAL COMPOSITION</b>		<b>ASTM C150</b>		<b>UNIT</b>	<b>RESULTS</b>
Silicon Dioxide	(SiO <sub>2</sub> )			%	20.25
Aluminum Oxide	(Al <sub>2</sub> O <sub>3</sub> )			%	5.52
Ferric Oxide	(Fe <sub>2</sub> O <sub>3</sub> )			%	3.21
Calcium Oxide	(CaO)			%	63.95
Magnesium Oxide	(MgO)	Max.	6.0	%	1.72
Sulphur Trioxide	(SO <sub>3</sub> )	Max.	3.5	%	2.16
Loss-On-Ignition	(LOI)	Max.	3.5	%	2.52
Alkali	(0.658K <sub>2</sub> O+Na <sub>2</sub> O)			%	0.54
Phosphorus Pentoxide	(P <sub>2</sub> O <sub>5</sub> )			%	0.26
Insoluble Residue	(IR)	Max.	1.5	%	0.08
Limestone		Max.	5.0	%	3.4
L.S.F				%	95.5
S.M					2.32
I.M					1.72
C <sub>3</sub> S				%	58.6
C <sub>2</sub> S				%	13.8
C <sub>3</sub> A				%	9.2
C <sub>4</sub> AF				%	9.8
<b>PHYSICAL</b>					
Blaine (Air Permeability App)		Min.	2600	cm <sup>2</sup> /g	3,320
45µm Residue				%	10.1
Initial Time		Min.	45	mins	195
		Max.	375	mins	298
Water Demand				%	24.2
Compressive Strength	3Days	Min.	12	N/mm <sup>2</sup>	26.7
	7Days	Min.	19	N/mm <sup>2</sup>	28.2
	28Days	Min.	28	N/mm <sup>2</sup>	44.4

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 : May 20<sup>th</sup> ,2026**

PNG Taiheiyō Cement Limited  
 Lae Plant

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