



PNG TAIHEIYO CEMENT LIMITED

QUALITY CONTROL SECTION

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

MONTHLY TEST RESULTS FOR January-2024

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)			%	20.30
Aluminum Oxide	(Al ₂ O ₃)			%	5.51
Ferric Oxide	(Fe ₂ O ₃)			%	3.21
Calcium Oxide	(CaO)			%	63.46
Magnesium Oxide	(MgO)	Max.	6.0	%	1.33
Sulphur Trioxide	(SO ₃)	Max.	3.5	%	2.05
Loss-On-Ignition	(LOI)	Max.	3.5	%	2.29
Alkali	(0.658K ₂ O+Na ₂ O)			%	0.45
Phosphorus Pentoxide	(P ₂ O ₅)			%	0.25
Insoluble Residue	(IR)	Max.	1.5	%	0.05
Limestone		Max.	5.0	%	3.2
L.S.F				%	94.7
S.M					2.33
I.M					1.72
C ₃ S				%	56.7
C ₂ S				%	15.4
C ₃ A				%	9.2
C ₄ AF				%	9.8
PHYSICAL					
Blaine (Air Permeability App)		Min.	2600	cm ² /g	3,150
45µm Residue				%	10.4
Initial Time		Min.	45	mins	164
Final Time		Max.	375	mins	258
Water Demand				%	24.6
Compressive Strength	3Days	Min.	12	N/mm ²	24.2
	7Days	Min.	19	N/mm ²	32.0
	28Days	Min.	28	N/mm ²	38.1

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 : April 8th,2024

PNG Taiheiyō Cement Limited

Lae Plant

Mr. Kazuhiro Tanaka

Policy & Planning Manager/QC