



PNG TAIHEIYO CEMENT LIMITED
QUALITY CONTROL SECTION
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MONTHLY TEST RESULTS FOR March-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.

<u>DESCRIPTION OF TEST</u>					
<u>CHEMICAL COMPOSITION</u>		<u>ASTM C150</u>		<u>UNIT</u>	<u>RESULTS</u>
Silicon Dioxide	(SiO ₂)			%	20.46
Aluminum Oxide	(Al ₂ O ₃)			%	5.38
Ferric Oxide	(Fe ₂ O ₃)			%	3.22
Calcium Oxide	(CaO)			%	64.27
Magnesium Oxide	(MgO)	Max.	6.0	%	1.80
Sulphur Trioxide	(SO ₃)	Max.	3.5	%	2.16
Loss-On-Ignition	(LOI)	Max.	3.5	%	2.31
Alkali	(0.658K ₂ O+Na ₂ O)			%	0.52
Phosphorus Pentoxide	(P ₂ O ₅)			%	0.28
Insoluble Residue	(IR)	Max.	1.5	%	0.04
Limestone		Max.	5.0	%	3.0
L.S.F				%	95.3
S.M					2.38
I.M					1.67
C ₃ S				%	59.2
C ₂ S				%	14.0
C ₃ A				%	8.8
C ₄ AF				%	9.8
<u>PHYSICAL</u>					
Blaine (Air Permeability App)		Min.	2600	cm ² /g	3,190
45µm Residue				%	11.3
Initial Time		Min.	45	mins	233
Final Time		Max.	375	mins	280
Water Demand				%	24.8
Compressive Strength	3Days	Min.	12	N/mm ²	31.1
	7Days	Min.	19	N/mm ²	37.0
	28Days	Min.	28	N/mm ²	45.4

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 : June 19th,2024

PNG Taiheiyō Cement Limited
Lae Plant

Mr. Kazuhiro Tanaka
Policy & Planning Manager/QC