



Certificate No. 03083/ALAOAM
Date: April 7, 2019



Issuing Office:
Jl. Linggarjati No. 22, Pangkalpinang, Indonesia
Phone/Facs: +62 717 431551/424139
Email: pangkalpinang@sucofindo.co.id

CERTIFICATE OF ANALYSIS

PRINCIPAL : PT. Timah Tbk
COMMODITY : Tin Ingot (Non Paduan)
QUANTITY : 5,000.0 kg
NO. BATCH : A. 169
MARKING : BANKA LL 100 / GREEN 0780
DATE OF SAMPLING : March 31, 2019
DATE OF ANALYSIS : April 01, 2019

Result:

No.	Parameter	Unit	Test Result	Method
1.	Lead (Pb)	%	0.0043	PO/PKP-OPS/01
2.	Bismuth (Bi)	%	0.0017	
3.	Antimony (Sb)	%	0.0038	
4.	Copper (Cu)	%	0.0008	
5.	Zinc (Zn)	%	0.0003	
6.	Argentum (Ag)	%	0.0001	
7.	Aluminium (Al)	%	0.0005	
8.	Arsenic (As)	%	0.0015	
9.	Cadmium (Cd)	%	<0.0001	
10.	Cobalt (Co)	%	0.0005	
11.	Iron (Fe)	%	0.0030	
12.	Nickel (Ni)	%	0.0014	
13.	Sulfur (S)	%	0.0002	
14.	Tin (Sn)	%	99.9819	Remainder

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2002011900178

UP Pangkalpinang

Arif Ampera



3180821

SGI-2007A



Certificate No. 03084/ALAOAM
Date: April 7, 2019



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CERTIFICATE OF ANALYSIS

PRINCIPAL : PT. Timah Tbk
COMMODITY : Tin Ingot (Non Paduan)
QUANTITY : 5,000.0 kg
NO. BATCH : A. 169
MARKING : BANKA LL 100 / GREEN 0781
DATE OF SAMPLING : March 31, 2019
DATE OF ANALYSIS : April 01, 2019

Result:

No.	Parameter	Unit	Test Result	Method
1.	Lead (Pb)	%	0.0043	PO/PKP-OPS/01
2.	Bismuth (Bi)	%	0.0017	
3.	Antimony (Sb)	%	0.0038	
4.	Copper (Cu)	%	0.0008	
5.	Zinc (Zn)	%	0.0002	
6.	Argentum (Ag)	%	0.0001	
7.	Aluminium (Al)	%	0.0005	
8.	Arsenic (As)	%	0.0015	
9.	Cadmium (Cd)	%	<0.0001	
10.	Cobalt (Co)	%	0.0005	
11.	Iron (Fe)	%	0.0026	
12.	Nickel (Ni)	%	0.0014	
13.	Sulfur (S)	%	0.0004	
14.	Tin (Sn)	%	99.9822	

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Certificate No. 03116/ALAOAM
Date: April 7, 2019



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CERTIFICATE OF ANALYSIS


PRINCIPAL : PT. Timah Tbk
COMMODITY : Tin Ingot (Non Paduan)
QUANTITY : 5,000.0 kg
NO. BATCH : A. 171
MARKING : BANKA LL 100 / BLUE 0753
DATE OF SAMPLING : April 02, 2019
DATE OF ANALYSIS : April 02, 2019

Result:

No.	Parameter	Unit	Test Result	Method
1.	Lead (Pb)	%	0.0055	PO/PKP-OPS/01
2.	Bismuth (Bi)	%	0.0018	
3.	Antimony (Sb)	%	0.0037	
4.	Copper (Cu)	%	0.0019	
5.	Zinc (Zn)	%	0.0002	
6.	Argentum (Ag)	%	0.0001	
7.	Aluminium (Al)	%	0.0005	
8.	Arsenic (As)	%	0.0007	
9.	Cadmium (Cd)	%	<0.0001	
10.	Cobalt (Co)	%	0.0003	
11.	Iron (Fe)	%	0.0032	
12.	Nickel (Ni)	%	0.0005	
13.	Sulfur (S)	%	0.0009	
14.	Tin (Sn)	%	99.9807	Remainder

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3180854

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Certificate No. 03117/ALAOAM
Date: April 7, 2019



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CERTIFICATE OF ANALYSIS

PRINCIPAL : PT. Timah Tbk
COMMODITY : Tin Ingot (Non Paduan)
QUANTITY : 5,000.0 kg
NO. BATCH : A. 171
MARKING : BANKA LL 100 / BLUE 0754
DATE OF SAMPLING : April 02, 2019
DATE OF ANALYSIS : April 02, 2019

Result:

No.	Parameter	Unit	Test Result	Method
1.	Lead (Pb)	%	0.0055	PO/PKP-OPS/01
2.	Bismuth (Bi)	%	0.0018	
3.	Antimony (Sb)	%	0.0037	
4.	Copper (Cu)	%	0.0019	
5.	Zinc (Zn)	%	0.0003	
6.	Argentum (Ag)	%	0.0001	
7.	Aluminium (Al)	%	0.0005	
8.	Arsenic (As)	%	0.0007	
9.	Cadmium (Cd)	%	<0.0001	
10.	Cobalt (Co)	%	0.0003	
11.	Iron (Fe)	%	0.0031	
12.	Nickel (Ni)	%	0.0005	
13.	Sulfur (S)	%	0.0009	
14.	Tin (Sn)	%	99.9807	

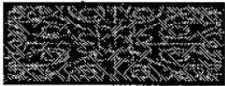
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Certificate No. 03118/ALAOAM
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CERTIFICATE OF ANALYSIS

PRINCIPAL : PT. Timah Tbk
COMMODITY : Tin Ingot (Non Paduan)
QUANTITY : 5,000.0 kg
NO. BATCH : A. 171
MARKING : BANKA LL 100 / BLUE 0755
DATE OF SAMPLING : April 02, 2019
DATE OF ANALYSIS : April 02, 2019

Result:

No.	Parameter	Unit	Test Result	Method
1.	Lead (Pb)	%	0.0054	PO/PKP-OPS/01
2.	Bismuth (Bi)	%	0.0018	
3.	Antimony (Sb)	%	0.0038	
4.	Copper (Cu)	%	0.0019	
5.	Zinc (Zn)	%	0.0002	
6.	Argentum (Ag)	%	0.0001	
7.	Aluminium (Al)	%	0.0005	
8.	Arsenic (As)	%	0.0007	
9.	Cadmium (Cd)	%	<0.0001	
10.	Cobalt (Co)	%	0.0003	
11.	Iron (Fe)	%	0.0030	
12.	Nickel (Ni)	%	0.0005	
13.	Sulfur (S)	%	0.0009	
14.	Tin (Sn)	%	99.9809	Remainder

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