

**TEST REPORT**

No.: IDAU2110021097R2

Date: October 18, 2024

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PT. PINJAYA LOGAM**NGORO INDUSTRI PERSADA KAV. M-3A, NGORO, MOJOKERTO - 61385**

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : ALUMINIUM INGOT ADC 12%, HD-2, HD-4

Sample No. : 2110021097

Part No. : -

Lot No. : -

Manufacturer/Vendor : PT. PINJAYA LOGAM

Country of Manufacturer : INDONESIA

OEM : -

Other Detail : -

Data Received : October 07, 2024

Testing Period : October 07, 2024 to October 18, 2024

Test Result(s) : Please refer to next page(s)

Test Method(s) : Please refer to next page(s)

Signed for and on behalf of**P.T. SGS Indonesia****Toto Waluyadi****Automotive Lab Manager**

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TEST RESULTS

Test Item(s)	Method	Unit	MDL	Result
Cadmium (Cd)	With reference to IEC 62321-5:2013 and performed by ICP-OES	mg/kg	2	n.d.
Lead (Pb)	With reference to IEC 62321-5:2013 and performed by ICP-OES	mg/kg	2	584
Mercury (Hg)	With reference to IEC 62321-4:2013+A1:2017 and performed by ICP-OES	mg/kg	2	n.d.
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-1:2015 and performed by UV-VIS	ug/cm ²	0.1	n.d.
Sum of PBBs	With reference to IEC 62321-6 : 2015 Analysis was performed by GC-MS	mg/kg	-	n.d.
Monobromodiphenyl		mg/kg	5	n.d.
Dibromobiphenyl		mg/kg	5	n.d.
Tribromobiphenyl		mg/kg	5	n.d.
Tetrabromobiphenyl		mg/kg	5	n.d.
Pentabromobiphenyl		mg/kg	5	n.d.
Hexabromobiphenyl		mg/kg	5	n.d.
Heptabromobiphenyl		mg/kg	5	n.d.
Octabromobiphenyl		mg/kg	5	n.d.
Nonabromobiphenyl		mg/kg	5	n.d.
Decabromobiphenyl		mg/kg	5	n.d.
Sum of PBDEs		mg/kg	-	n.d.
Monobromodiphenyl ether		mg/kg	5	n.d.
Dibromodiphenyl ether		mg/kg	5	n.d.
Tribromodiphenyl ether		mg/kg	5	n.d.
Tetrabromodiphenyl ether		mg/kg	5	n.d.
Pentabromodiphenyl ether		mg/kg	5	n.d.
Hexabromodiphenyl ether		mg/kg	5	n.d.
Heptabromodiphenyl ether		mg/kg	5	n.d.
Octabromodiphenyl ether		mg/kg	5	n.d.
Nonabromodiphenyl ether		mg/kg	5	n.d.

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Test Item(s)	Method	Unit	MDL	Result
Decabromodiphenyl ether	With reference to IEC 62321-6 : 2015 Analysis was performed by GC-MS	mg/kg	5	n.d.
Hexabromocyclododecane (HBCDD)	In House Method Analysis was performed by GC-MS	mg/kg	5	n.d.
Dimetyl Fumarate (DMFu)	In House Method Analysis was performed by GC-MS	mg/kg	0.1	n.d.
# Perfluorooctane Sulfonates (PFOS-Acid, Metal Salt, Amide)	With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS	mg/kg	0.01	n.d.
# Asbestos	With reference to EPA 600/R-93/116 (1993) method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and Xray Diffraction Spectrometer (XRD)			
Actinolite (CAS No.:77536-66-4)		%	-	Negative
Amosite (CAS No.: 12172-73-5)		%	-	Negative
Anthophyllite (CAS No.:77536-67-5)		%	-	Negative
Chrysotile (CAS No.: 12001-29-5)		%	-	Negative
Crocidolite (CAS No.:12001-28-4)		%	-	Negative
Tremolite (CAS No.: 77536-68-6)		%	-	Negative

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- Note :
1. mg/kg = ppm; 0.1wt%=1000 ppm
 2. n.d. = Not Detected
 3. MDL= Method Detection Limit
 4. “-“= Not Regulated
 5. Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgement criterion: asbestos fibers being found is shown as “Positive”; asbestos fibers not being found is shown as “Negative”
 6. a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

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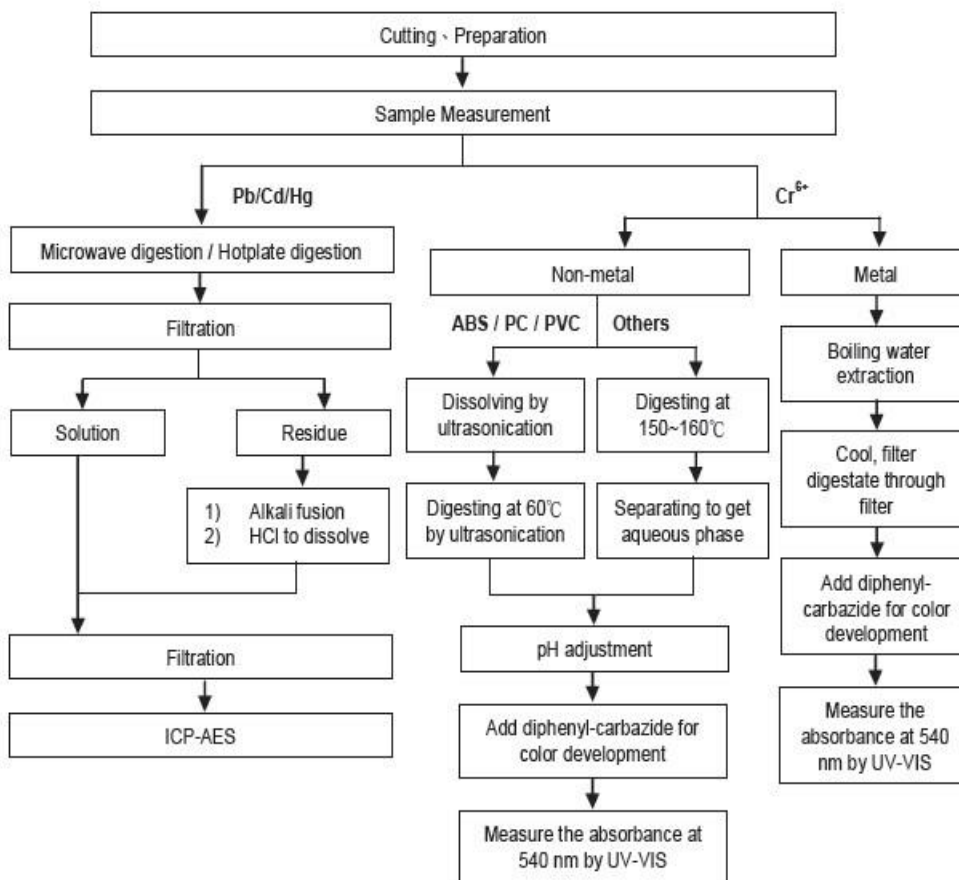
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Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- Technician : Jony Liu
- Supervisor: Ray Chang



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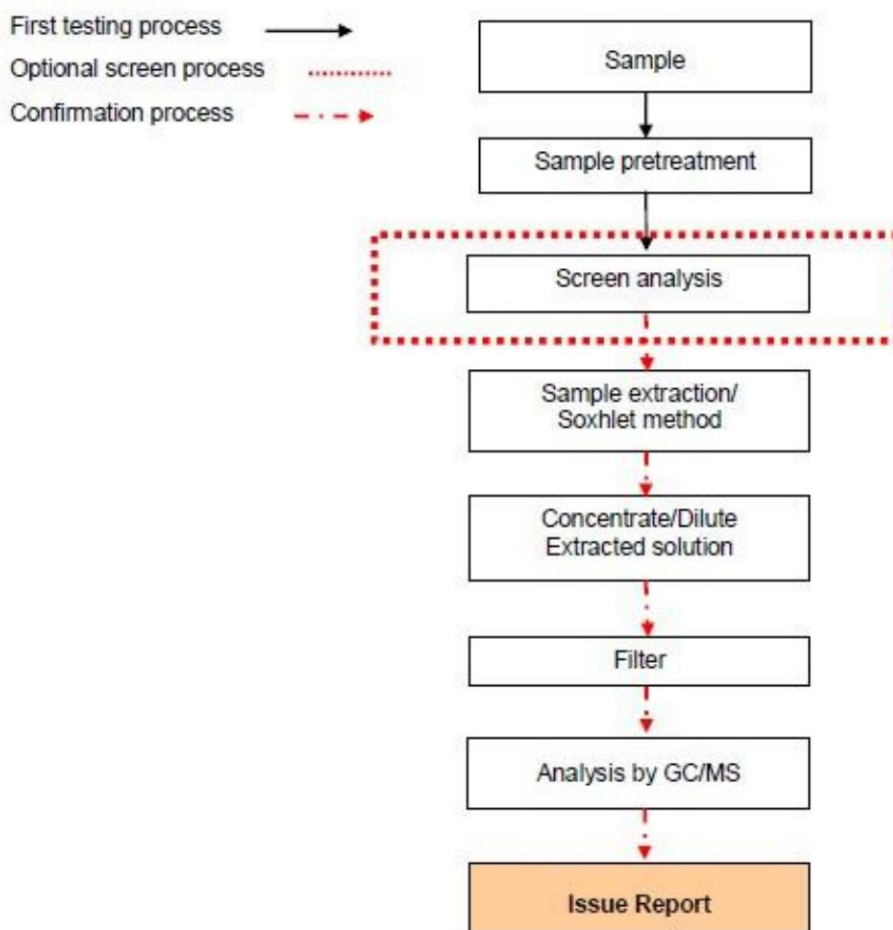
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PBB/PBDE analytical FLOW CHART

1) Name of the person who made measurement : Cristian T

2) Name of the person who made measurement : Erwanda Bayu P



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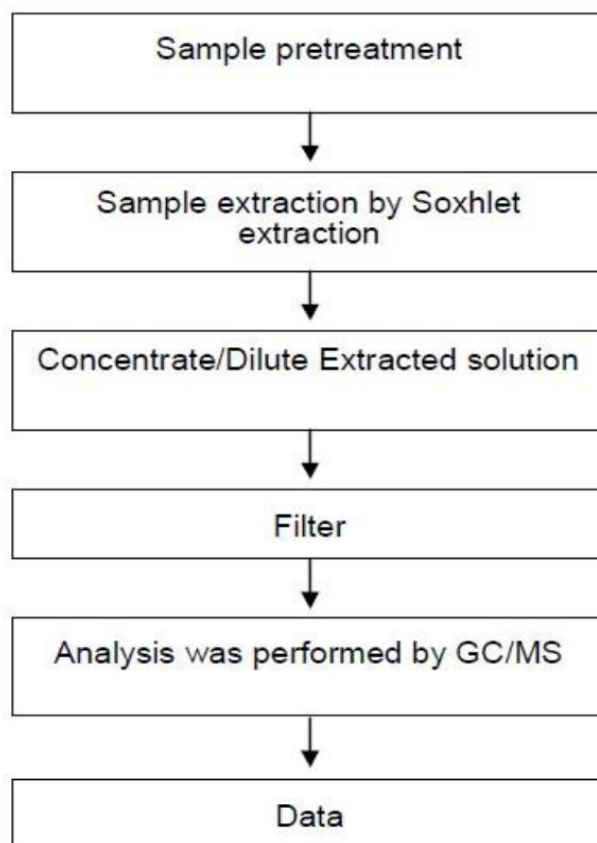
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HBCDD Analytical FLOW CHART

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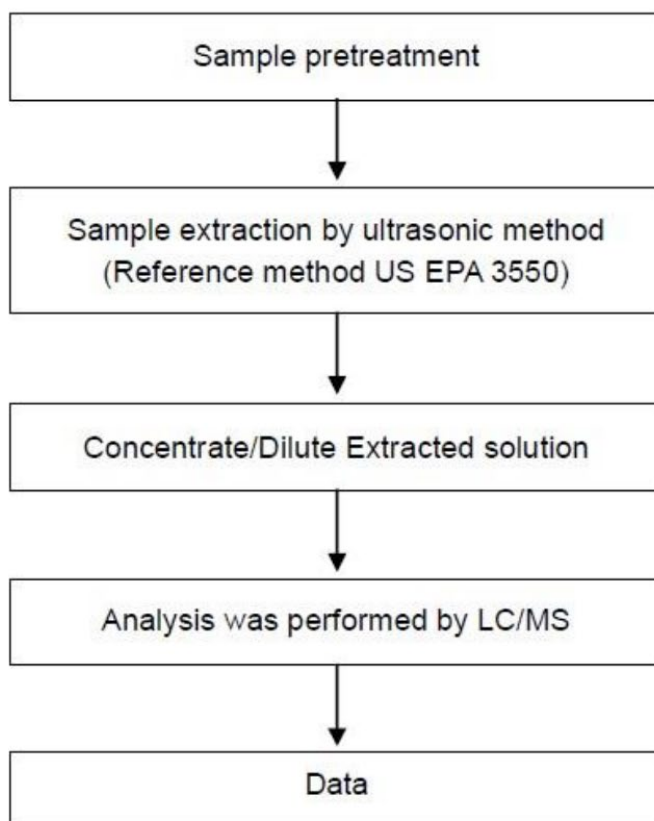
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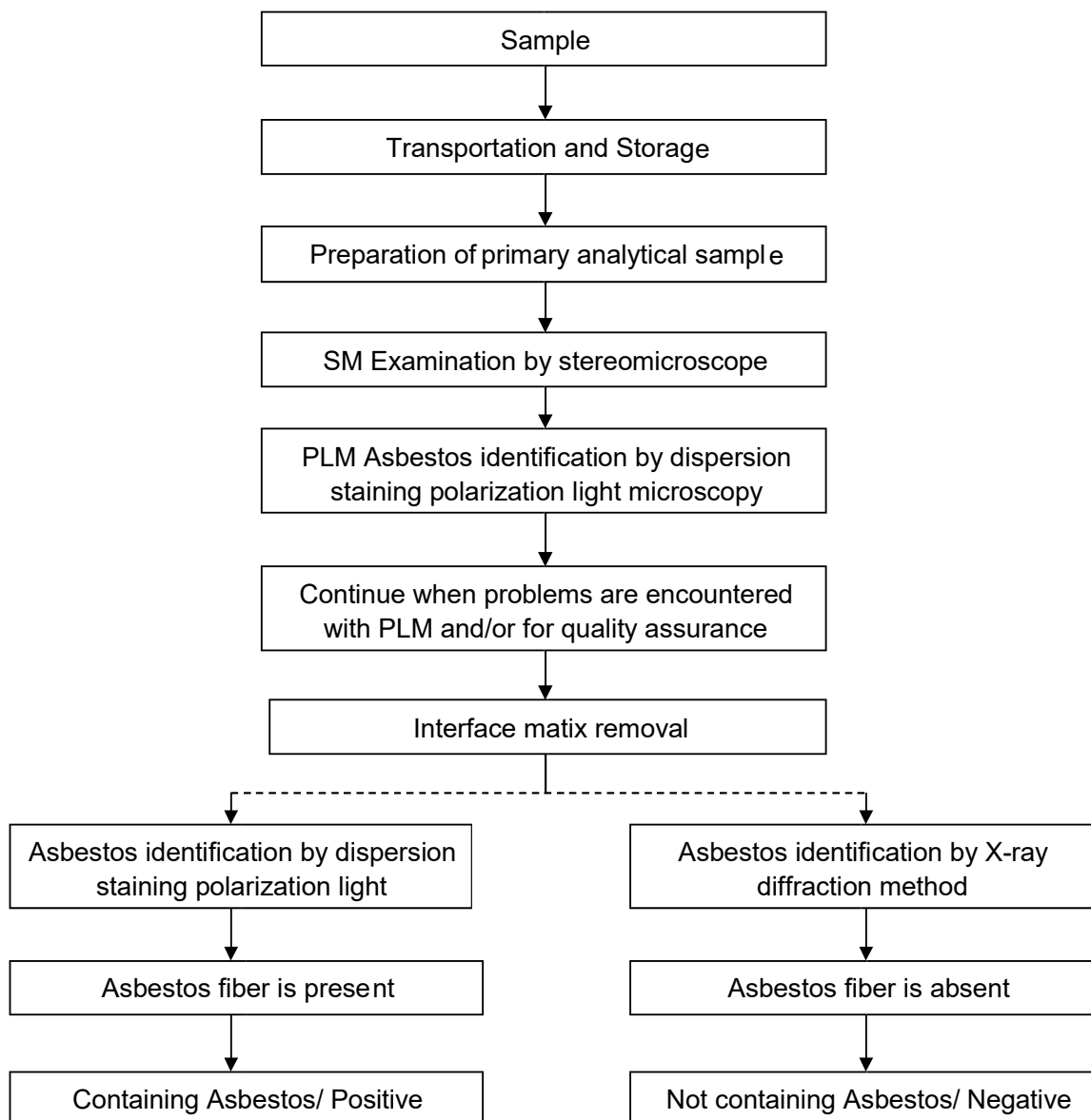
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Analytical flow chart of Asbestos content

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Sample Picture



"Test(s) marked # on this Report was tested/analyzed by an external laboratory with prior approval of the client

"

*****End of Report*****

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