





Test Report No. VNHL2103004610EE-01 Date: March 24, 2021 Page 1 of 7

This report cancels and supersedes the report No VNHL2103004610EE dated March 23, 2021 issued by SGS Vietnam

AAL-E PRODUCTION AND TRADING CO., LTD

LOT IV-6.3, ROAD 2, TAN DONG HIEP B INDUSTRIAL PARK, DI AN CITY, BINH DUONG PROVINCE, VIET NAM.

The following sample was submitted and identified on behalf of the client as below:

SGS Job No. : VNHL2103004610EE-01

Sample Description : "ANODIZE/ MIL A 8625F/ TYPE II/ CLASS 1 – KHONG MAU"

Characteristic : ALUMINUM ALLOY

Country of Origin : VIET NAM

Manufacturer : AAL-E PRODUCTION AND TRADING CO., LTD

Sample Receiving Date : MARCH 17, 2021

Final confirmed Date : MARCH 17, 2021

Testing Period : MARCH 17, 2021 TO MARCH 23, 2021

Test Requested : PLEASE REFER TO THE RESULT SUMMARY

Test Results : PLEASE REFER TO NEXT PAGE(S).

Result Summary

Test Requested	Result (s)
RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]	
(Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs),	
Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl)	Pass
phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and	
Diisobutyl phthalate (DIBP)) – As client's requirement	

Signed for and on behalf of

SGS Vietnam LTD



To Ka Wing

Chemical Lab Manager

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Test results:

Test Part Description:

Component No.	Description	Material	Color
1	SILVERY METAL (ANODIZE/ MIL A 8625F/ TYPE II/	METAL	SILVER
	CLASS 1 – KHONG MAU)	IVIETAL	

RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]

Test Item(s):	Unit	Test Method	Results	RL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	ND	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	17	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	ND	2	1000
Hexavalent Chromium (CrVI) #	μg/cm²	With reference to IEC 62321-7-1:2015 (Determination of CrVI by UV-VIS)	ND	0.10	-
Sum of PBBs	mg/kg		ND	-	1000
Monobromobiphenyl	mg/kg		ND	5	-
Dibromobiphenyl	mg/kg		ND	5	-
Tribromobiphenyl	mg/kg		ND	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015	ND	5	-
Hexabromobiphenyl	mg/kg	(Determination of PBB by GC-MS)	ND	5	-
Pentabromobiphenyl	mg/kg	(Determination of FBB by GC-W3)	ND	5	-
Heptabromobiphenyl	mg/kg		ND	5	-
Octabromobiphenyl	mg/kg		ND	5	-
Nonabromobiphenyl	mg/kg		ND	5	-
Decabromobiphenyl	mg/kg		ND	5	-
Sum of PBDEs	mg/kg		ND	ı	1000
Monobromodiphenyl ether	mg/kg		ND	5	-
Dibromodiphenyl ether	mg/kg		ND	5	-
Tribromodiphenyl ether	mg/kg		ND	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	ND	5	-
Pentabromodiphenyl ether	mg/kg		ND	5	-
Hexabromodiphenyl ether	mg/kg		ND	5	-
Heptabromodiphenyl ether	mg/kg		ND	5	-
Octabromodiphenyl ether	mg/kg		ND	5	-
Nonabromodiphenyl ether	mg/kg		ND	5	-
Decabromodiphenyl ether	mg/kg		ND	5	-

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Test Item(s):	Unit	Test Method	Results	RL	Limit
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DEHP by GC-MS)	ND	50	1000
Butyl benzyl phthalate (BBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of BBP by GC-MS)	ND	50	1000
Dibutyl phthalate (DBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DBP by GC-MS)	ND	50	1000
Diisobutyl phthalate (DIBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DIBP by GC-MS)	ND	50	1000

Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. RL = Reporting Limit
- 3. ND = Not detected
- 4. # = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 $\mu g/cm^2$. The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is n.d. (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI 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
- 5. = not regulated
- IEC 62321 is equivalent to EN 62321
 http://www.cenelec.eu/dyn/www/f?p=104:110:721668440899381::::FSP_PROJECT,FSP_LANG_ID:20662.25.
- 7. The above test(s) was / were accredited ISO 17025:2017 by VILAS The above test(s) was / were performed by SGS VN's Chemical lab.

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Test Report

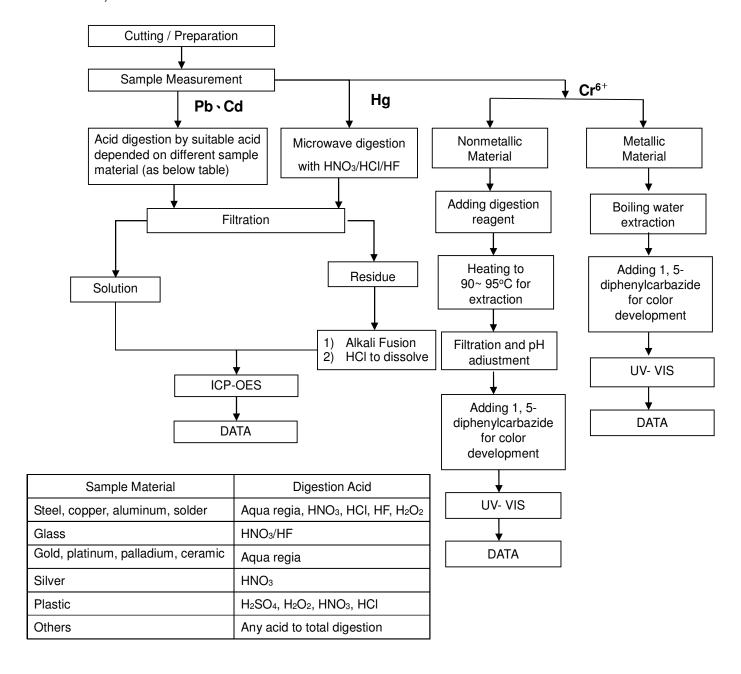
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Flow Chart for RoHS: Pb/Cd/Hg/Cr⁶⁺ Testing

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



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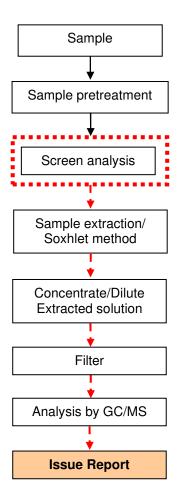
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PBB/PBDE analytical FLOW CHART

First testing process
Optional screen process
Confirmation process



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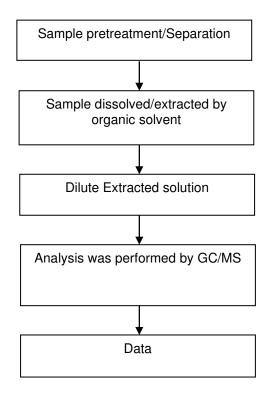
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Analytical flow chart of phthalate content

Test method: IEC 62321-8: 2017

First testing process
Optional screen process
Confirmation process



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PHOTO OF SUBMITTED SAMPLE FOR TESTING



REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY

End of Report

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