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Date: 23-Mar-2022

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A.L.M.T. Corp.

398-16. Murahigashiyama, Juriduka, Sakata-City, Yamagata, Japan

| The following samp Sample Submitted E Sample Name | | | ere submitted and identified by the applicant as: A.L.M.T. Corp. CPC plate |
|---------------------------------------------------------|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample Receiving D | ate | : | 15-Mar-2022 |
| Testing Period | | : | 15-Mar-2022 to 22-Mar-2022 |
| Test Requested | : | (1) | As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s). |
| | | (2) | Please refer to next pages for the other item(s). |
| Test Results | : | | Please refer to following pages. |
| Conclusion | : | (1) | Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU. |





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Test Part Description

No.1 : COPPER COLORED METAL SHEET

Test Result(s)

| Test Item(s) | Method | Unit | MDL | Result No.1 | Limit |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------|--------|-----|----------------|-------|
| Cadmium (Cd) (CAS No.: 7440-43-9) | With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | 100 |
| Lead (Pb) (CAS No.: 7439-92-1) | With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | 1000 |
| Mercury (Hg) (CAS No.: 7439-97-6) | With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | 1000 |
| Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9) (#2) | With reference to IEC 62321-7-1: 2015, analysis was performed by UV- VIS. | µg/cm² | 0.1 | n.d. | - |
| Monobromobiphenyl | | 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 PBBs | With reference to IEC 62321-6: 2015, | mg/kg | - | n.d. | 1000 |
| Monobromodiphenyl ether | analysis was performed by GC/MS. | 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. | - |
| Decabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Sum of PBDEs | | mg/kg | - | n.d. | 1000 |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|----------------------------------------|--------------------------------------|-------|-----|--------|-------|
| | | | | No.1 | |
| Butyl benzyl phthalate (BBP) (CAS No.: | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| 85-68-7) | analysis was performed by GC/MS. | | | | |
| Dibutyl phthalate (DBP) (CAS No.: 84- | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| 74-2) | analysis was performed by GC/MS. | | | | |
| Di-(2-ethylhexyl) phthalate (DEHP) | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| (CAS No.: 117-81-7) | analysis was performed by GC/MS. | | | | |
| Diisobutyl phthalate (DIBP) (CAS No.: | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| 84-69-5) | analysis was performed by GC/MS. | | | | |
| Fluorine (F) (CAS No.: 14762-94-8) | With reference to BS EN 14582: 2016, | mg/kg | 50 | n.d. | - |
| | analysis was performed by IC. | | | | |
| Chlorine (Cl) (CAS No.: 22537-15-1) | With reference to BS EN 14582: 2016, | mg/kg | 50 | n.d. | - |
| | analysis was performed by IC. | | | | |
| Bromine (Br) (CAS No.: 10097-32-2) | With reference to BS EN 14582: 2016, | mg/kg | 50 | n.d. | - |
| | analysis was performed by IC. | | | | |
| lodine (l) (CAS No.: 14362-44-8) | With reference to BS EN 14582: 2016, | mg/kg | 50 | n.d. | - |
| | analysis was performed by IC. | | | | |
| Beryllium (Be) (CAS No.: 7440-41-7) | With reference to US EPA 3050B: | mg/kg | 2 | n.d. | - |
| | 1996, analysis was performed by ICP- | | | | |
| | OES. | | | | |
| Antimony (Sb) (CAS No.: 7440-36-0) | With reference to US EPA 3050B: | mg/kg | 2 | n.d. | - |
| | 1996, analysis was performed by ICP- | | | | |
| | OES. | | | | |

Note :

- 1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. (#2) =

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/cm². The sample coating is considered to contain Cr(VI).

b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 μ g/cm²). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

6. The statement of compliance conformity is based on comparison of testing results and limits.

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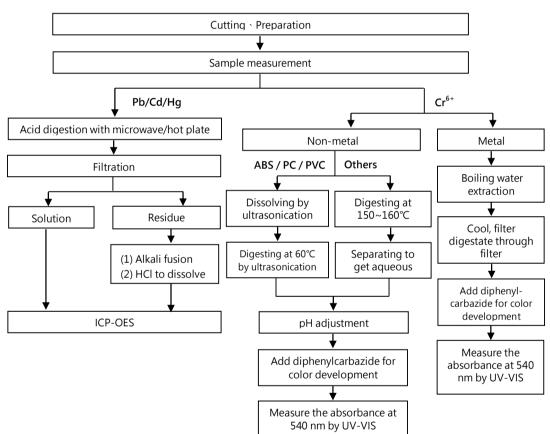
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Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.



(Cr^{6+} test method excluded)

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First testing process _____ Optional screen process _____ Confirmation process _____ Screen analysis Sample extraction / Soxhlet method Concentrate/Dilute extracted solution Filter GC/MS

Analytical flow chart – PBBs / PBDEs

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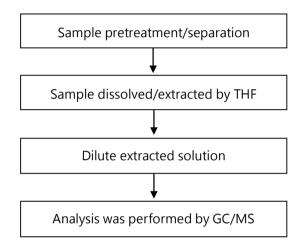
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Analytical flow chart - Phthalate

[Test method: IEC 62321-8]



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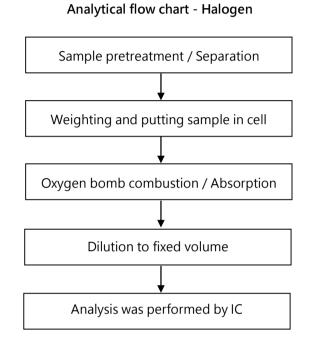
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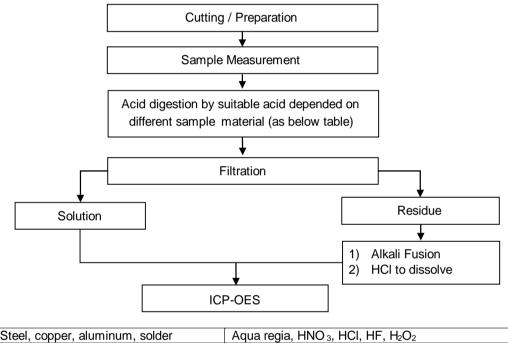
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Flow Chart of digestion for the elements analysis performed by ICP-OES

These samples were dissolved totally by pre -conditioning method according to below flow chart.



| Steel, copper, aluminum, solder | Aqua regia, HNO ₃ , HCI, HF, H ₂ O ₂ |
|------------------------------------|-----------------------------------------------------------------------------------------|
| Glass | HNO ₃ /HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | HNO ₃ |
| Plastic | H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI |
| Others | Added appropriate reagent to total digestion |

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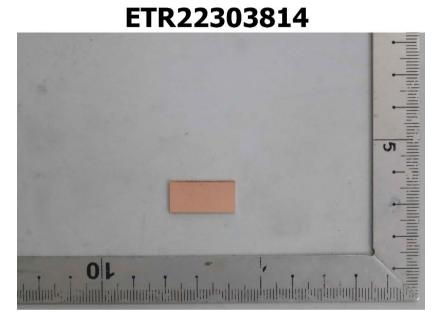
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* The tested sample / part is marked by an arrow if it's shown on the photo. *



** End of Report **

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