







Report No. A2240385168101001R1

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| Company Name shown on Report | SHENZHEN ASAHI ELECTRONIC MATERIALS CO., LTD | ENZHEN ASAHI ELECTRONIC MATERIALS CO., LTD | | |
|--|---|--|--|--|
| Address | .1F , 2F, BLDG.7, FOUR OYSTERS WESTERN INDUSTRIAL ZONE, SHAJING REET, BAO'AN DISTRICT, SHENZHEN. | | | |
| The following samp applicant | ole(s) and sample information was/were submitted and identified by | y/on the behalf of the | | |
| Sample Name | Lead-free Solder Wire | | | |
| Model No. | GM2 900 W、适用于(Used for) : GM2 980 W、GM2 9 GM2 903 W 、GM2 930 W、GM2 990 W 、GM2 905 W GM2 915 W、GM2 1000C W | | | |
| Color | Silver-white | | | |
| Material | Tin-based solder alloy | | | |
| Sample Received Da | | Jul. 1, 2024 | | |
| Testing Period | Jul. 1, 2024 to Jul. 4, 2024 | | | |
| Test Requested | As specified by client, to test Lead (Pb), Cadmium (Cd), Mero Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Poly Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the | brominated Diphenyl | | |
| Test Method | Please refer to the following page(s). | | | |
| Test Result(s) | Please refer to the following page(s). | | | |
| ************************************** | *************************************** | ***** | | |
| Tested Samp | le According to standard/directive | Result | | |
| Submitted Sam | ple RoHS Directive 2011/65/EU with | PASS | | |

amendment (EU) 2015/863

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.



flitt They Hill Zheng

Date

Jul. 8, 2024

No. R338859182

Technical Manager International Group Co.,Ltd. entre Testing CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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Test Method

| Test Item(s) | Test Method | Measured Equipment(s) |
|---|--------------------------------|--------------------------|
| Lead (Pb) | IEC 62321-5:2013 | ICP-OES |
| Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES |
| Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| Hexavalent Chromium (Cr(VI)) | IEC 62321-7-1:2015 | UV-Vis |
| Polybrominated Biphenyls (PBBs)* | IEC 62321-6:2015 | GC-MS |
| Polybrominated Diphenyl Ethers (PBDEs)* | IEC 62321-6:2015 | GC-MS |
| Phthalates (DBP, BBP, DEHP, DIBP)* | IEC 62321-8:2017 | GC-MS |



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Test Result(s)

| | Result | MDL | Limit |
|--------------------------------------|-------------------|-------------------------------|------------|
| Tested Item(s) | 001 | MDL | Linnt |
| Lead (Pb) | 20 mg/kg | 2 mg/kg | 1000 mg/kg |
| Cadmium (Cd) | N.D. | 2 mg/kg | 100 mg/kg |
| Mercury (Hg) | N.D. | 2 mg/kg | 1000 mg/kg |
| Hexavalent Chromium (Cr(VI)) | N.D. * | 0.10 µg/cm ² (LOQ) | 1000 mg/kg |
| Tested Item(s) | Result 001 | MDL | Limit |
| Polybrominated Biphenyls (PBBs)* | | | |
| Monobromobiphenyl | N.D. | 5 mg/kg | |
| Dibromobiphenyl | N.D. | 5 mg/kg | |
| Tribromobiphenyl | N.D. | 5 mg/kg | |
| Tetrabromobiphenyl | N.D. | 5 mg/kg | |
| Pentabromobiphenyl | N.D. | 5 mg/kg | 1000 mg/kg |
| Hexabromobiphenyl | N.D. | 5 mg/kg | - |
| Heptabromobiphenyl | N.D. | 5 mg/kg | |
| Octabromobiphenyl | N.D. | 5 mg/kg | |
| Nonabromobiphenyl | N.D. | 5 mg/kg | |
| Decabromobiphenyl | N.D. | 5 mg/kg | |
| Tested Item(s) | Result 001 | MDL | Limit |
| Polybrominated Diphenyl Ethers (PBDE | | | |
| Monobromodiphenyl ether | N.D. | 5 mg/kg | |
| Dibromodiphenyl ether | N.D. | 5 mg/kg | |
| Tribromodiphenyl ether | N.D. | 5 mg/kg | |
| Tetrabromodiphenyl ether | N.D. | 5 mg/kg | |
| Pentabromodiphenyl ether | N.D. | 5 mg/kg | 1000 mg/kg |
| Hexabromodiphenyl ether | N.D. | 5 mg/kg | |
| Heptabromodiphenyl ether | N.D. | 5 mg/kg | |
| Octabromodiphenyl ether | N.D. | 5 mg/kg | |
| Nonabromodiphenyl ether | N.D. | 5 mg/kg | |
| Decabromodiphenyl ether | N.D. | 5 mg/kg | |

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Test Result(s)

| Tested Item(s) | Result 001 | MDL | Limit | |
|---|-------------------|----------|------------|--|
| Phthalates (DBP, BBP, DEHP, DIBP)* | | | | |
| Dibutyl phthalate (DBP) CAS#:84-74-2 | N.D. | 50 mg/kg | 1000 mg/kg | |
| Butyl benzyl phthalate (BBP) CAS#:85-68-7 | N.D. | 50 mg/kg | 1000 mg/kg | |
| Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7 | N.D. | 50 mg/kg | 1000 mg/kg | |
| Diisobutyl phthalate (DIBP) CAS#:84-69-5 | N.D. | 50 mg/kg | 1000 mg/kg | |

Sample/Part Description

| No. | CTI Sample ID | Description |
|-----|---------------|--------------------|
| 1 | 001 | Silvery metal wire |

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μ g/cm²

- The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm? The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Note: *indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

-This testing report revised "Model No." based on the original report of No. A2240385168101001. This testing report displaces the original one which was invalid since the date of this testing report released.



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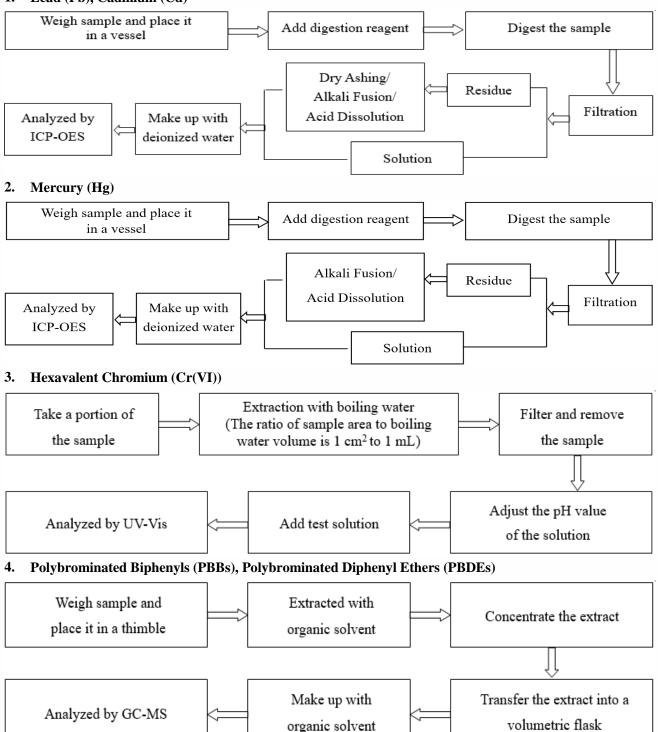
CTI华测检测

Test Report

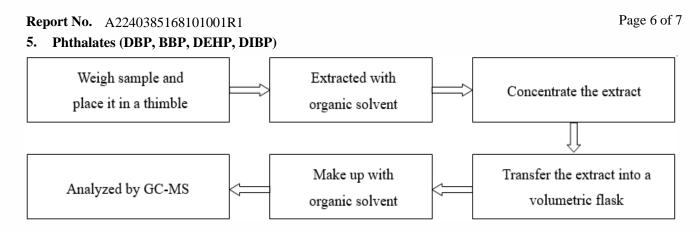
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Test Process

1. Lead (Pb), Cadmium (Cd)







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Photo(s) of the sample(s)



Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full;
- 6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

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