

Report No. A2240475125101001





Test Report



Page 1 of 7

Company Name

NAN YA ELECTRONIC MATERIALS(KUNSHAN)CORP.,LTD

shown on Report

ZONE, JIANG SU. CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Address

Sample Name Electrolytic copper foil

Color Red copper

Material Metal

Sample Received Date Aug. 8, 2024

Testing Period Aug. 8, 2024 to Aug. 16, 2024

As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent **Test Requested**

> Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

201 CHANG JIANG ROAD(S)KUNSHAN ECONOMIC&TECHNICAL DEVELOPMENT

Test Method Please refer to the following page(s). Test Result(s) Please refer to the following page(s).

Conclusion

Tested Sample According to standard/directive Result Submitted Sample **PASS** RoHS Directive 2011/65/EU with 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.

Testing International Pinbiao(Shanghai) Co., Ltd.

Chen kaimin Lab Manager Date

Aug. 28, 2024

No. J587851448

No.1351, Wanfang Road, Minhang District, Shanghai, China



Report No. A2240475125101001

Page 2 of 7

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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Report No. A2240475125101001 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL	Limit
	001	MIDL	
Lead (Pb)	N.D.	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)	001		
Monobromobiphenyl	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 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 (PBDEs)		-	
Monobromodiphenyl ether	N.D.	5 mg/kg	1000 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	
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	



Report No. A2240475125101001

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL	Limit			
	001					
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 Copper foil

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 μg/cm²
- -The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 $\mu g/cm^2$. 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.



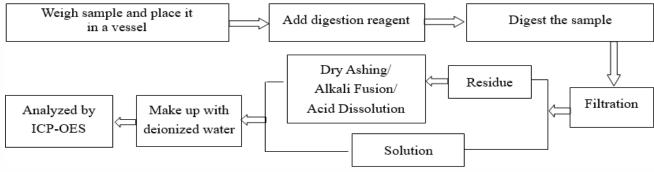
Report No. A2240475125101001

Page 5 of 7

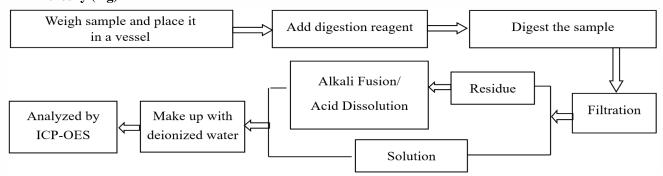
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Test Process

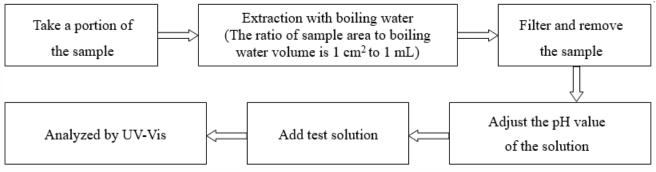
1. Lead (Pb), Cadmium (Cd)



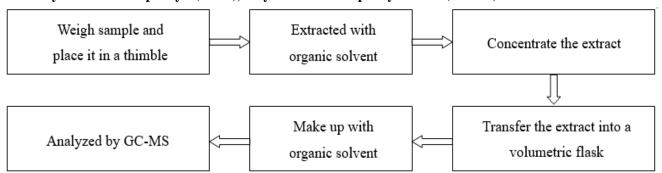
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

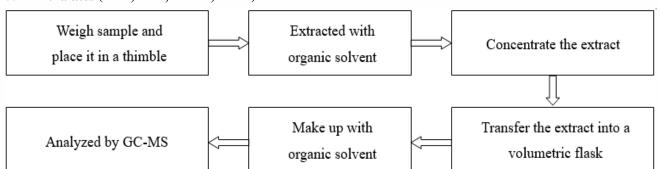




Report No. A2240475125101001

Page 6 of 7

5. Phthalates (DBP, BBP, DEHP, DIBP)



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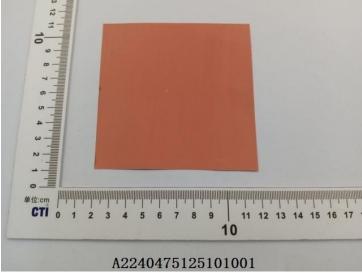


Report No. A2240475125101001

Page 7 of 7

Photo(s) of the sample(s)





Statement

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. 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;
- 4. 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.

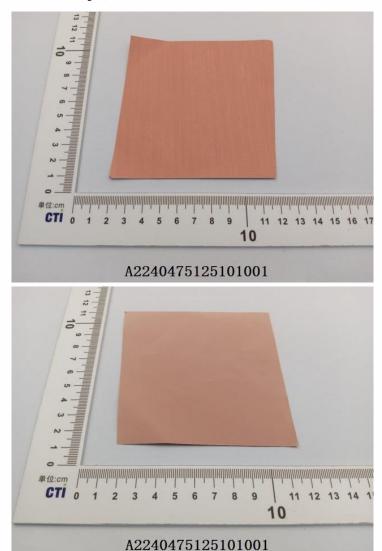
*** End of report ***

Appendix

Client Reference Information

KSHG、KSHD、 KSM、 KSMD、 KSVP、 KSV、 KSHD1、 KSHD2、 KSVP2

Client Reference Photo (Non-tested sample)



Statement:

- 1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
- 2. The Appendix Information is/are the supplement(s) for the Report A2240475125101001.