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Company Name shown on Report	SHUEN DER INDUSTRY(JIANG SU)CO.,LTD.			
Address	NO. 2 SHANGHAI ROAD , ZHANGJIAGANG FREE TRADE ZONE, JIANGSU			
The following sample applicant	e(s) and sample information was/were submitted and identified by/on the behalf of the			
Sample Name	LeadFrame			
Material	Ni Plating			
Sample Received Date	Mar. 6, 2023	Mar. 6, 2023		
Testing Period	Mar. 6, 2023 to Mar. 9, 2023			
Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).			
Test Method	Please refer to the following page(s).			
Test Result(s)	Please refer to the following page(s).			
*****	*****	* * * * * * * *		
Conclusion				
Tested Samp	le According to standard/directive Result	t		
Submitted Samp	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.

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Date

Mar. 9, 2023

No. R667314931

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





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Test Method		
Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	Refer to IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	Refer to IEC 62321-5:2013	ICP-OES
Mercury (Hg)	Refer to 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)	Decult		1	
Tested Item(s)	<b>Result</b> 001	MDL	Limit	
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 <sup>2</sup> (LOQ)	1000 mg/kg	
	Result			
Tested Item(s)	001	MDL	Limit	
Polybrominated Biphenyls (PBBs)				
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		
T	Result	MDL	Limit	
Tested Item(s)	001			
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		

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Test Result(s)				
	Result	MDL	Limit	
Tested Item(s)	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	Silvery plating

#### 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  $0.10 \ \mu g/cm^2$ 

- The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm<sup>2</sup>. The coating is considered a non-Cr(VI) based coating.

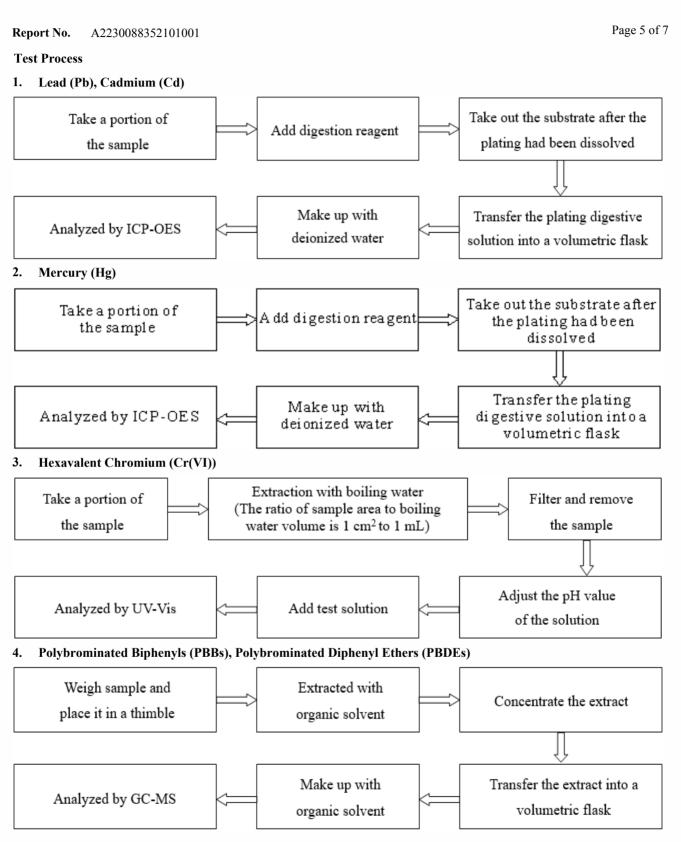
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Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com

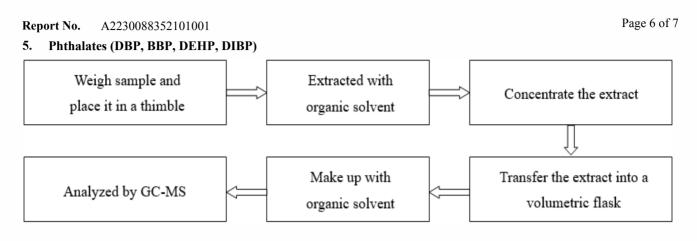
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# CTI华测检测

# **Test Report**





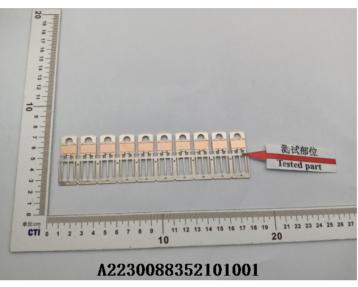




Photo(s) of the sample(s)

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Statement:

**Report No.** 

- 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;The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. 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 \*\*\*