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Company Name DONGGUAN AILLEN ELECTRONIC TECHNOLOGY CO., LTD.

shown on Report

Address NO.28, JINGGANG ZHONG ROAD, SHATIAN TOWN, DONGGUAN CITY,

GUANGDONG PROVINCE, P. R. CHINA

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

Sample Name Wire Wound Resistor

Sample Received Date Jul. 19, 2023

Testing Period Jul. 31, 2023 to Aug. 7, 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/Test Result(s) Please refer to the following page(s).

Date

Aug. 11, 2023

No. R179751614

章 ternational Group Co.,Ltd.

Hill Z

Hill Zheng Technical Manager

l Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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********	***************	*******
Conclusion		
Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with	PASS
Submitted Sample	amendment (EU) 2015/863	rass
*********	***************	*******
PASS means that the results show	n on the report comply with the limits set by RoHS Directive 2011.	/65/EU with amendment (EU)
2015/863.		



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Test Method

Tested 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	
	IEC 62321-7-1:2015	UV-Vis	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	LIV VI-/ICD OES	
	Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	
(PBDEs)	IEC 02321-0.2013	GC-WIS	
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	



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Test Result(s)

Tested Item(s)	Result		MDL	Limit
	1	2	WIDL	Limit
Lead (Pb)	N.D.	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.		8 mg/kg	1000 mg/kg
		N.D.▼	0.10 μg/cm ²	1000 mg/kg
	N.D. '	(LOQ)	1000 ilig/kg	

Tested Item(s)	Result	MDL	Limit
	1	WIDL	LIIIII
Polybrominated Biphenyls (PBBs	8)		
Monobromobiphenyl	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	1000 //
Pentabromobiphenyl	N.D.	5 mg/kg	
Hexabromobiphenyl	N.D.	5 mg/kg	1000 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	

Tosted Item(s)	Result	MDL	I imit
Tested Item(s)	2	WIDL	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	1000 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	



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Togtod Itom(c)	Result	MDL	Limit
Tested Item(s)	1	MIDL	Limit
Polybrominated Diphenyl Ethers (PBI	DEs)	<u>.</u>	•
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	1000 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	
Total Hamile	Result	MDI	T ::4
Tested Item(s)	2	MDL	Limit
Polybrominated Diphenyl Ethers (PBI	DEs)*	·	
Monobromodiphenyl ether	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
			1

Tested Item(s)	Result	MDL	Limit
Tested Item(s)	2	WIDL	Limit
Polybrominated Diphenyl Ethers (PB	DEs)*		
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	1000 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg	
Hexabromodiphenyl ether	N.D.	5 mg/kg	1000 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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Tested Item(s)	Result	MDL	Limit
	1	MIDL	Limit
Phthalates (DBP, BBP, DEHP, DI	BP)		
Dibutyl phthalate (DBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7		50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	50 mg/kg	1000 mg/kg
(DEHP) CAS#:117-81-7			
Diisobutyl phthalate (DIBP)	N.D.	50 m = /lr =	1000 m o /ls o
CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

Tested Item(s)	Result	MDL	Limit
	2	MIDL	12111111
Phthalates (DBP, BBP, DEHP, DI	BP)*		
Dibutyl phthalate (DBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7		50 mg/kg	1000 Hig/kg
Di-(2-ethylhexyl) phthalate	N.D.	50 mg/kg	1000 mg/kg
(DEHP) CAS#:117-81-7			
Diisobutyl phthalate (DIBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-69-5	IV.D.	50 mg/kg	1000 mg/kg



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Sample/Part Description

Sample No. Description

> 1 Green body(Tested as a whole) #

2 Silvery metal pin

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

> -#The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.

-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 µg/cm². The coating is considered a non-Cr(VI) based coating.

-The test result(s) (except for Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) of sample 2) is(are) presented in reference to the result(s) that reported in A2230355012113.

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

> -This testing report revised the full text based on the original report of No. A2230377936113. This testing report displaces the original one which was invalid since the date of this testing report released.

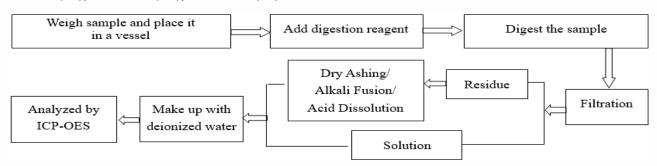


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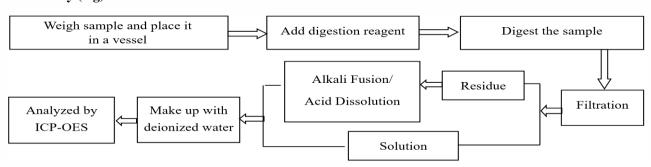
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Test Process

1. Lead (Pb), Cadmium (Cd), Chromium(Cr)

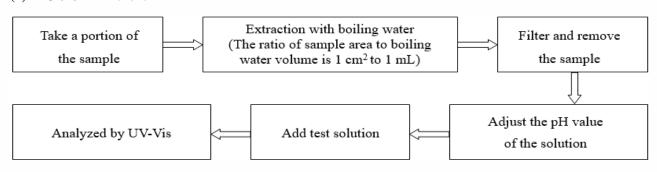


2. Mercury (Hg)

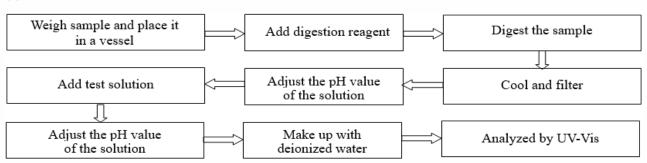


3. Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015



(2) IEC 62321-7-2:2017

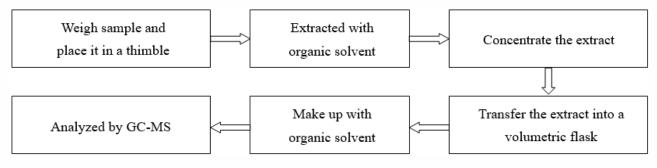




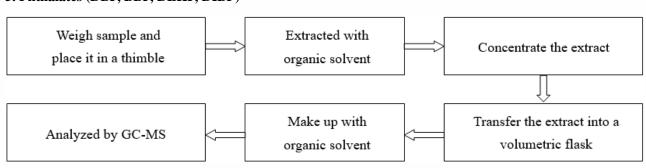
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4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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



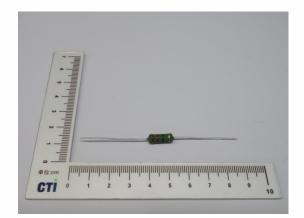


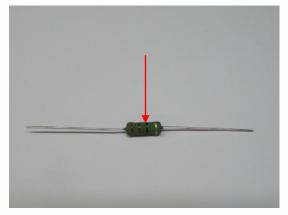


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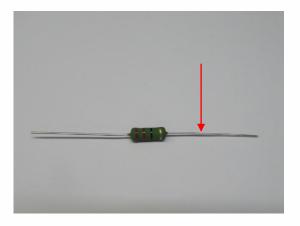
Photo(s) of the sample(s)

Final Product 1





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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. 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 ***