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Company Name DONGGUAN AILLEN ELECTRONIC TECHNOLOGY CO., LTD.

shown on Report

Address NO.32, 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 Metal Oxide Varistor

Sample Received Date Jul. 3, 2025

Testing Period Jul. 3, 2025 to Jul. 15, 2025

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

Jul. 22, 2025

Anso Fang

ntre Testing baternational Group Co., Ltd.

Lab Authorized Signatory

No. R179751870

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

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 V:-/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 (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)

Tested Item(s)	Re	sult	RL	Limit
rested rtem(s)	1	2	KL	Limit
Lead (Pb)	N.D.	N.D.	10 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	10 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	10 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))		N.D.▼	0.10 μg/cm ²	1000 mg/kg
		N.D.	(LOQ)	1000 mg/kg
	N.D.		20 mg/kg	1000 mg/kg

Tested Item(s)	Result	RL	Limit
	2		
Polybrominated Biphenyls (PBBs)*			
Monobromobiphenyl	N.D.	100 mg/kg	
Dibromobiphenyl	N.D.	100 mg/kg	
Tribromobiphenyl	N.D.	100 mg/kg	
Tetrabromobiphenyl	N.D.	100 mg/kg	
Pentabromobiphenyl	N.D.	100 mg/kg	1000 mg/kg
Hexabromobiphenyl	N.D.	100 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	100 mg/kg	
Octabromobiphenyl	N.D.	100 mg/kg	
Nonabromobiphenyl	N.D.	100 mg/kg	
Decabromobiphenyl	N.D.	100 mg/kg	

Tested Item(s)	Result	RL	Limit
	2	- KL	LIIIII
Polybrominated Diphenyl Ethers (PBI	DEs)*	·	
Monobromodiphenyl ether	N.D.	100 mg/kg	
Dibromodiphenyl ether	N.D.	100 mg/kg	
Tribromodiphenyl ether	N.D.	100 mg/kg	
Tetrabromodiphenyl ether	N.D.	100 mg/kg	
Pentabromodiphenyl ether	N.D.	100 mg/kg	1000 m = /lr =
Hexabromodiphenyl ether	N.D.	100 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	100 mg/kg	
Octabromodiphenyl ether	N.D.	100 mg/kg	
Nonabromodiphenyl ether	N.D.	100 mg/kg	
Decabromodiphenyl ether	N.D.	100 mg/kg	



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Tested Item(s)	Result	RL	Limit
rested rem(s)	2	KL.	Ziiiii
Phthalates (DBP, BBP, DEHP, DIBP)*	Phthalates (DBP, BBP, DEHP, DIBP)*		
Butyl benzyl phthalate (BBP)	ND	50 mg/kg	1000 mg/kg
CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	50 m a/lra	1000 m o /lvo
CAS#:84-69-5		50 mg/kg	1000 mg/kg
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP)	N.D.	50 /1	1000 /
CAS#:117-81-7		50 mg/kg	1000 mg/kg

Tested Item(s)	Result	RL	Limit
	1		LIIIII
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	100 mg/kg	
Dibromobiphenyl	N.D.	100 mg/kg	
Tribromobiphenyl	N.D.	100 mg/kg	
Tetrabromobiphenyl	N.D.	100 mg/kg	
Pentabromobiphenyl	N.D.	100 mg/kg	1000 m a/lsa
Hexabromobiphenyl	N.D.	100 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	100 mg/kg	
Octabromobiphenyl	N.D.	100 mg/kg	
Nonabromobiphenyl	N.D.	100 mg/kg	
Decabromobiphenyl	N.D.	100 mg/kg	



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Tested Item(s)	Result	RL	Limit
rested rem(s)	1		Lillit
Polybrominated Diphenyl Ethers (PBDI	Es)		
Monobromodiphenyl ether	N.D.	100 mg/kg	
Dibromodiphenyl ether	N.D.	100 mg/kg	
Tribromodiphenyl ether	N.D.	100 mg/kg	
Tetrabromodiphenyl ether	N.D.	100 mg/kg	
Pentabromodiphenyl ether	N.D.	100 mg/kg	1000 mg/kg
Hexabromodiphenyl ether	N.D.	100 mg/kg	1000 Hig/kg
Heptabromodiphenyl ether	N.D.	100 mg/kg	
Octabromodiphenyl ether	N.D.	100 mg/kg	
Nonabromodiphenyl ether	N.D.	100 mg/kg	
Decabromodiphenyl ether	N.D.	100 mg/kg	

Tested Item(s)	Result	RL	Limit
rested tem(s)	1	KL	Limit
Phthalates (DBP, BBP, DEHP, DIBP)			
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-69-5		50 mg/kg	1000 mg/kg
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP)	N.D.	50 mg/lsg	1000 mg/kg
CAS#:117-81-7		50 mg/kg	1000 mg/kg



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Sample/Part Description

No.	CTI Sample ID	Description
1	1	Blue body(Tested as a whole)#
2	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.

- -RL=Report Limit
- -N.D. = Not Detected (<RL 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
- - $^{\blacktriangledown}$ 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. 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.
- -In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.

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

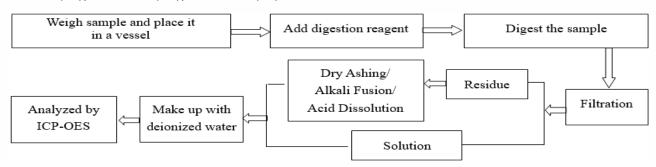


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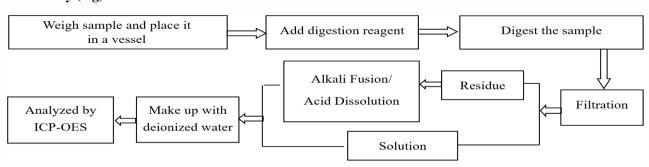
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Test Process

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

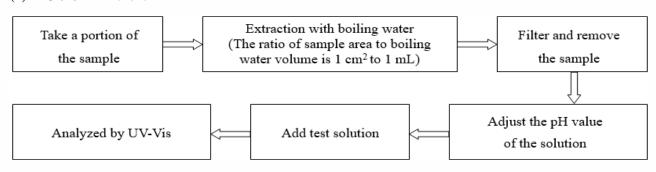


2. Mercury (Hg)

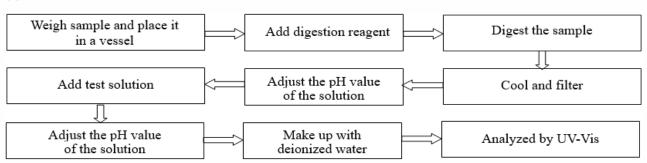


3. Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015



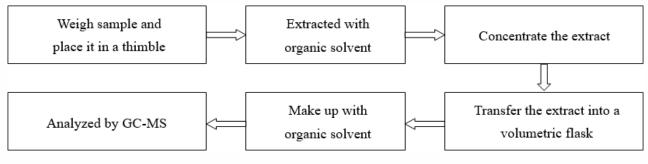
(2) IEC 62321-7-2:2017



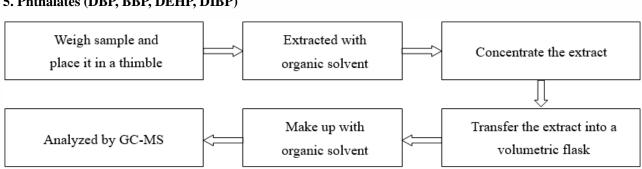


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4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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



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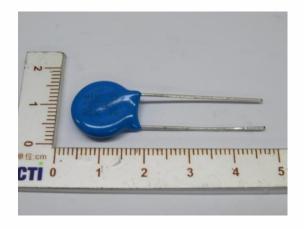


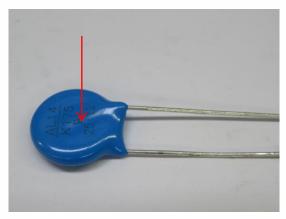


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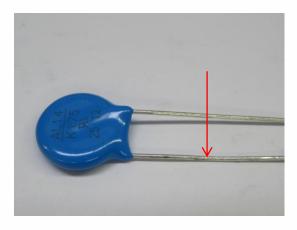
Photo(s) of the sample(s)

Final Product 1





2



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 ***