VZ067TL7 SERIES Pb(F) TEST REPORT

PART NAME	REPORT No.
SUBSTRATE	ICP0029
ELECTRODE *	ICP0261
RESISTANCE ELEMENT	ICP0282
TERMINAL CONNECTOR	ICP1334/ICP1067
KNOB	ICP0449
1-3 TERMINALS	ICP1133
2.TERMINAL	ICP1134
MOVING CONTACT	ICP1136

*Lead is a glass ingredient.(Lead contained in the glass of electronic components is exempt from RoHS directives.)



Test Report No. CANEC1606725119 Date: 28 Apr 2016 Page 1 of 5

HOKURIKU ELECTRIC INDUSTRY CO., LTD.

3158 Shimo-okubo, Toyama City, Toyama Pref. Japan

The following sample(s) was/were submitted and identified on behalf of the clients as : SUBSTRATE

SGS Job No.: CP16-022348 - GZ

Lot No.: 160310

Client Ref. Info.: Al2O3 96%

Supplier :

Date of Sample Received: 20 Apr 2016

Testing Period: 20 Apr 2016 - 26 Apr 2016

Test Requested : Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Cadmium,

Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) do not exceed the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Echo

Echo Yeung Approved Signatory



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN1 CAN16-067251.017 White sheet

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	017
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	12 9	ND
Monobromobiphenyl	*	mg/kg	5	ND
Dibromobiphenyl	5 5	mg/kg	5	ND
Tribromobiphenyl	Ē	mg/kg	5	ND
Tetrabromobiphenyl	€	mg/kg	5	ND
Pentabromobiphenyl	×	mg/kg	5	ND
Hexabromobiphenyl	=	mg/kg	5	ND
Heptabromobiphenyl	₹.	mg/kg	5	ND
Octabromobiphenyl	€	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	. 70	ND
Monobromodiphenyl ether	<u>=</u>	mg/kg	5	ND



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Test Report	No. CANEC16067251	19	Date: 2	8 Apr 2016	Page 3 of 5
Test Item(s)	<u>Limit</u>	Unit	MDL	<u>017</u>	
Dibromodiphenyl ether	<u>-</u>	mg/kg	5	ND	
Tribromodiphenyl ether	<u> </u>	mg/kg	5	ND	
Tetrabromodiphenyl ether	<u>=</u>	mg/kg	5	ND	
Pentabromodiphenyl ether	*	mg/kg	5	ND	
Hexabromodiphenyl ether	₩.	mg/kg	5	ND	
Heptabromodiphenyl ether	i i	mg/kg	5	ND	
Octabromodiphenyl ether	€	mg/kg	5	ND	
Nonabromodiphenyl ether	×	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (4) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (5) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.



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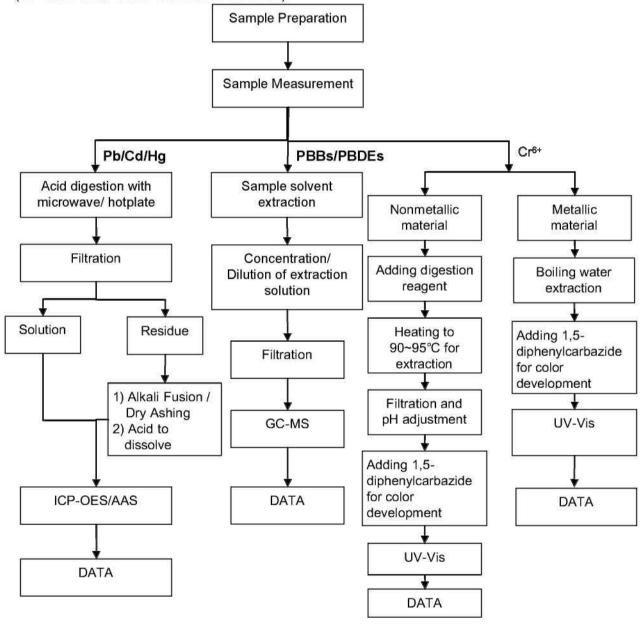
No. CANEC1606725119

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ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).





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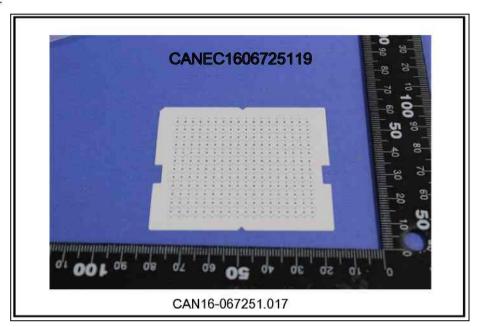
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Date: 28 Apr 2016 Page 5 of 5

Sample photo:



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Report No. SCL011010665002

Page 1 of 4

Applicant HOKURIKU ELECTRIC(GUANG DONG) CO., LTD.

Address JIAO-SHE ZONE, DONG KENG TOWN, DONG GUAN

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

Sample Name ELECTRODE
Lot No. 500-252-10
Material Ag ELEMENT

Supplier

Sample Received Date Feb. 23, 2016

Testing Period Feb. 23, 2016 to Mar. 3, 2016

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

Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted sample(s).

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
Polybrominated Biphenyl(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321-6:2015	GC-MS

Test Result(s)

Please refer to the following page(s).

Approved by Danny Liu
Technical Manager
Confidenting International Group Co.,Ltd. Ho

Reviewed by

Carry 1º

Date

Mar. 3, 2016

No. R185011352

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China



Report No. SCL01I010665002

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Test Result(s)

Tested Item(s)	Result	MDL
Lead (Pb)	1132 mg/kg	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	2 mg/kg

Tested Item(s)	Result	MDL
Polybrominated Biphenyl(PBBs)		(6)
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
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	MDL
Polybrominated Diphenyl Ethers(PB	DEs)	(34)
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
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

Tested Sample/Part Description

Gray-green paste

Remark:

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

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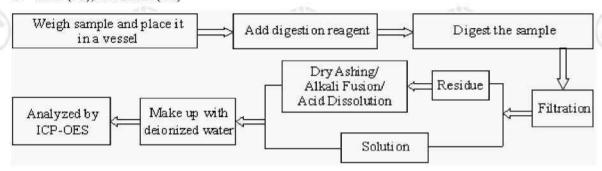


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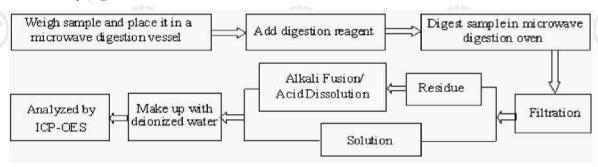
Page 3 of 4

Test Process

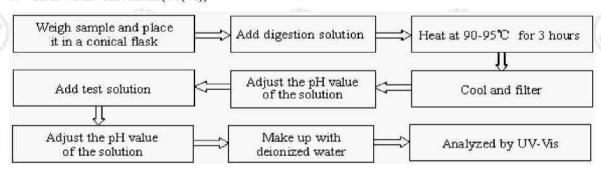
1. Lead (Pb), Cadmium (Cd)



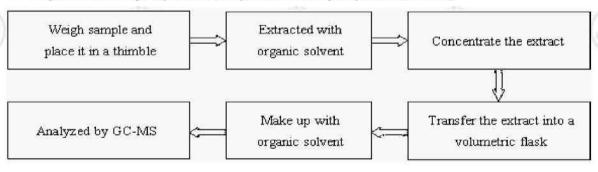
2. Mercury (Hg)



3. Hexavalent Chromium(Cr(VI))



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







Report No. SCL01I010665002

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Photo(s) of the sample(s)



*** End of report ***

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Test Report No. CANEC1514075204 Date: 18 Aug 2015 Page 1 of 5

HOKURIKU ELETRIC(GUANG DONG) CO., LTD. JIAO-SHE ZONE, DONGKENG TOWN, DONGGUAN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: RESISTANCE

ELEMENT

SGS Job No.: CP15-045902 - GZ

Lot No.: KC-35

CARBON RESISTANCE Material Name:

Supplier:

Date of Sample Received : 12 Aug 2015

Testing Period: 12 Aug 2015 - 17 Aug 2015

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

> Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Yan Lee

Approved Signatory



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Test Report No. CANEC1514075204 Date: 18 Aug 2015 Page 2 of 5

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN15-140752.004 Black material

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	004
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	5	ND
Monobromobiphenyl	=	mg/kg	5	ND
Dibromobiphenyl	=	mg/kg	5	ND
Tribromobiphenyl	5	mg/kg	5	ND
Tetrabromobiphenyl	Δ.	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	₽.	mg/kg	5	ND
Octabromobiphenyl	丝	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	5	ND
Monobromodiphenyl ether	<u>=</u>	mg/kg	5	ND



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Test Report	No. CANEC15140752	204	Date: 1	8 Aug 2015	Page 3 of 5
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>004</u>	
Dibromodiphenyl ether	₩.	mg/kg	5	ND	
Tribromodiphenyl ether	<u> </u>	mg/kg	5	ND	
Tetrabromodiphenyl ether	<u>=</u>	mg/kg	5	ND	
Pentabromodiphenyl ether	*	mg/kg	5	ND	
Hexabromodiphenyl ether	।	mg/kg	5	ND	
Heptabromodiphenyl ether	Ē	mg/kg	5	ND	
Octabromodiphenyl ether	2	mg/kg	5	ND	
Nonabromodiphenyl ether	*	mg/kg	5	ND	
Decabromodiphenyl ether	=	mg/kg	5	ND	

Notes:

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II.



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No. CANEC1514075204

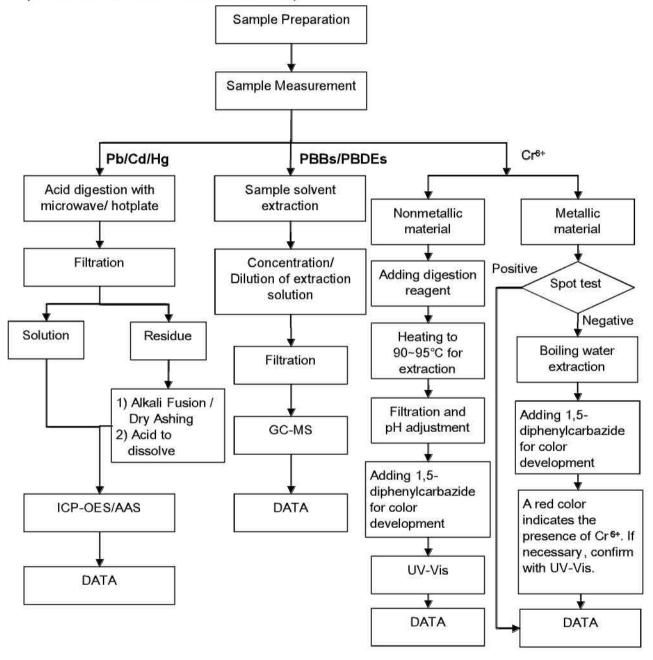
Page 4 of 5

Date: 18 Aug 2015

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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No. CANEC1514075204

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Date: 18 Aug 2015

Sample photo:



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Report No. SCL01H080992003

Page 1 of 4

Applicant HOKURIKU ELETRIC(GUANG DONG)CO.,LTD

Address JIAO-SHE ZONE,GONG KENG TOWN,DONG GUAN

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

Sample Name TERMINAL CONNECTOR

Material Sn-3Ag-0.5Cu

Supplier

Sample Received Date Sep. 17, 2015

Testing Period Sep. 17, 2015 to Sep. 21, 2015

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

Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted sample(s).

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0	ICP-OES
Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321 2008 Ed 1 Annex C	UV-Vis
Polybrominated Biphenyl(PBBs)	IEC 62321 2008 Ed 1 Annex A	GC-MS
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321 2008 Ed 1 Annex A	GC-MS

Test Result(s)

Please refer to the following page(s)

Approved by Danny Liu
Technical Manager
Control String International Group Co., Ltd. Ho

Reviewed by

_

Sep. 21, 2015

No. R185011409

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Report No. SCL01H080992003

Page 2 of 4

Test Result(s)

Tested Item(s)	Result	MDL
Lead (Pb)	122 mg/kg	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	2 mg/kg

Tested Item(s)	Result	MDL
Polybrominated Biphenyl(PBBs)		(62.5)
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
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	MDL
Polybrominated Diphenyl Ethers(PB	DEs)	(A)
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
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

Tested Sample/Part Description

Gray-green paste

Remark:

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million









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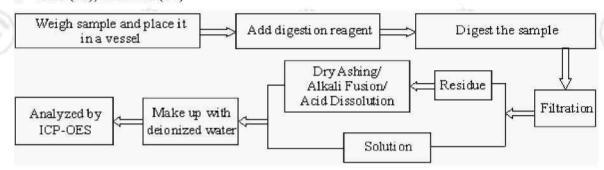


Report No. SCL01H080992003

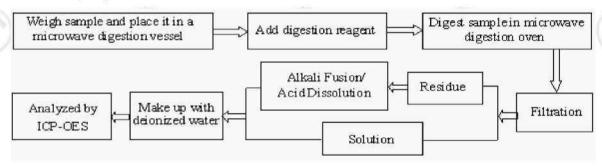
Page 3 of 4

Test Process

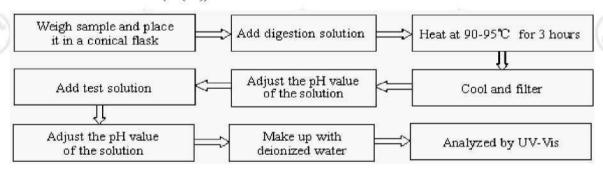
1. Lead (Pb), Cadmium (Cd)



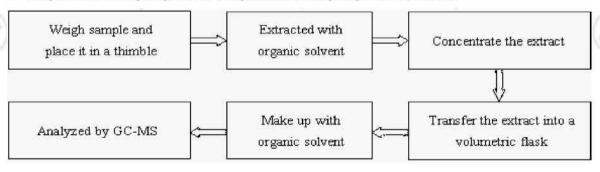
2. Mercury (Hg)



3. Hexavalent Chromium(Cr(VI))



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





Report No. SCL01H080992003

Page 4 of 4

Photo(s) of the sample(s)



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Report No. SCL01H070806001

Page 1 of 4

Applicant HOKURIKU ELECTRIC(GUANG DONG) CO., LTD.

Address JIAO-SHE ZONE, DONG KENG TOWN, DONG GUAN

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

Sample Name TERMINAL CONNECTOR

Lot No. 14-4A27HZG4 Material Sn-3Ag-0.5Cu

Supplier

Sample Received Date Aug. 17, 2015

Testing Period Aug. 17, 2015 to Aug. 19, 2015

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

Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted sample(s).

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5 2013 Ed 1 0	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0	ICP-OES
Mercury (Hg)	IEC 62321-4:2013 Ed 1.0	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
Polybrominated Biphenyl(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321 2008 Ed 1 Annex A	GC-MS

Test Result(s)

Please refer to the following page(s).

Approved by

Danny Liu

Technical Manager

Contrellesting International Group Co., Ltd. Ho.

Reviewed by

Date

Aug. 19, 2015

No. R185011509

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Report No. SCL01H070806001

Page 2 of 4

Test Result(s)

Tested Item(s)	Result	MDL
Lead (Pb)	68 mg/kg	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	2 mg/kg

Tested Item(s)	Result	MDL
Polybrominated Biphenyl(PBBs)		(45)
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
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	MDL
Polybrominated Diphenyl Ethers(PBD	Es)	(AD)
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
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

Tested Sample/Part Description

Gray paste

Remark:

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million











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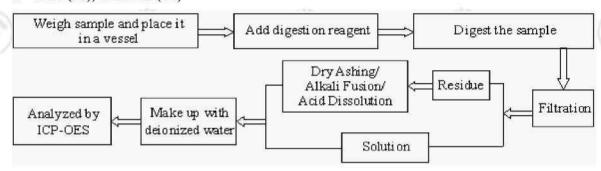


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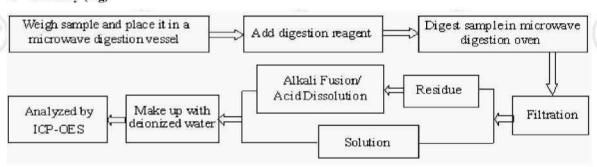
Page 3 of 4

Test Process

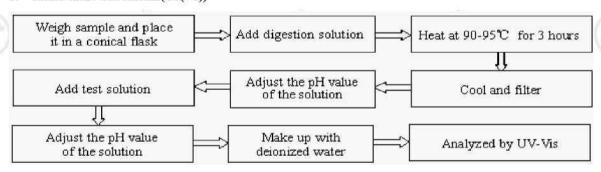
1. Lead (Pb), Cadmium (Cd)



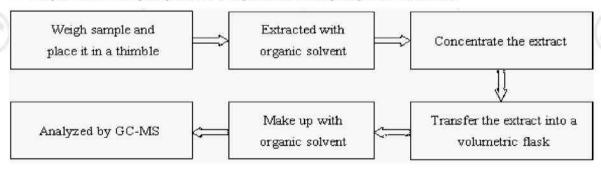
2. Mercury (Hg)



3. Hexavalent Chromium(Cr(VI))



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





SCL01H070806001 Report No.

Page 4 of 4

Photo(s) of the sample(s)



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检测报告编号(Report No.): SZC16012081311-1 日期(Date): 2016/1/23

页数(Page): 1 of 5

委托单位:

Applicant:

单位地址:

Address:

样品信息(Sample information)

旋钮 样品名称(Sample Name):

样品描述(Sample Description): 米色塑胶(Cream plastic)

样品型号(Sample Model):

样品材质(Sample Material): PA6

家(Buyer): 供应商(Supplier):

样品编号(Sample No.): SL1601208131101

委托日期(Sample Received Date): 2016/1/20

检测日期(Testing Period): 2016/1/20 - 2016/1/23

根据客户要求,检测其送检样品中的铅、镉、汞、六价铬、多溴联苯、 检测要求(Test Requested):

多溴二苯醚的含量(As specified by client, to determine the Pb, Cd, Hg, Cr(VI),

PBBs, PBDEs content in the submitted sample.).

检测方法(Test Method): 请参见后续页(Please refer to following page(s).)。

检测结果(Test Result): 请参见后续页(Please refer to following page(s).)。

基于所送样品进行的检测,铅、镉、汞、六价铬、多溴联苯、多溴二苯醚的 结论(Conclusion):

> 检测结果符合欧盟 RoHS 指令 2011/65/EU 及其修订指令 EU 2015/863 的限 值要求(Based on the performed tests on submitted samples, the results of Pb, Cd, Hg, Cr(VI), PBBs, PBDEs comply with the limits as set by EU RoHS

Directive 2011/65/EU and its amendment Directive EU 2015/863.).

Checked by

Angela

授权签字人

Signed for and on behalf of HCT

Michael

Laboratory Manager 限公司 报告专用章



检测报告编号(Report No.): SZC16012081311-1

日期(Date): 2016/1/23

页数(Page): 2 of 5

检测结果(Test Results):

與(Page): 2010/1/25 — 英数(Page): 2015 单位(Unit): mg/kg

检测项目 (Test Items)	检测方法/仪器 (Test Method/ Equipment)	方法检出限 (MDL)	含 量 (Content)	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863
铅 Lead(Pb)	参考(Refer to)	2	N.D.	1000
镉 Cadmium(Cd)	IEC62321-5:2013. ICP-AES/AAS	2	N.D.	100
汞 Mercury(Hg)	参考(Refer to) IEC62321-4;2013. ICP-AES	2	N.D.	1000
六价铬 Hexavalent Chromium(Cr(VI)) 通过碱液萃取 by Alkaline extraction	参考(Refer to) IEC 62321:2008. UV-VIS	HCT 2	N.D.	1000
一溴联苯 Mono-bromobiphenyl	K A	5	N.D.	
二溴联苯 Di-bromobiphenyl	40.	5	N.D.	Alo.
三溴联苯 Tri-bromobiphenyl	- 2	5	N.D.	x 3.
四溴联苯 Tetra-bromobiphenyl	40, 40	5	N.D.	10, 120,
五溴联苯 Penta-bromobiphenyl		5	N.D.	
六溴联苯 Hexa-bromobiphenyl	101	5	N.D.	16 ¹
七溴联苯 Hepta-bromobiphenyl	Jan San San San San San San San San San S	5	N.D.	1000
八溴联苯 Octa-bromobiphenyl	A A	5	N.D.	
九溴联苯 Nona-bromobiphenyl	10 A10	5	N.D.	HIC
十溴联苯 Deca-bromobiphenyl	.4.	5	N.D.	14 14
多溴联苯 Polybrominated Biphenyls(PBBs)	参考(Refer to)	6, -	N.D.	1000
一溴二苯醚 Mono-bromodiphenyl ether	IEC 62321:2008.	5	N.D.	
二溴二苯醚 Di-bromodiphenyl ether	GC-MS	5	N.D.	303
三溴二苯醚 Tri-bromodiphenyl ether	Kin	5	N.D.	2.
四溴二苯醚 Tetra-bromodiphenyl ether	8 .6	5	N.D.	25. 2
五溴二苯醚 Penta-bromodiphenyl ether	Ho. Ho	5	N.D.	Sin
六溴二苯醚 Hexa-bromodiphenyl ether	-8	5	N.D.	-A -
七溴二苯醚 Hepta-bromodiphenyl ether	Mc.	5	N.D.	40, 41
八溴二苯醚 Octa-bromodiphenyl ether		5	N.D.	2
九溴二苯醚 Nona-bromodiphenyl ether	10 s	5	N.D.	70,
十溴二苯醚 Deca-bromodiphenyl ether	35	5	N.D.	7.
多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)	HCL HC	S - 4	N.D.	1000

备注(Note): MDL=Method Detection Limit 方法检出限

mg/kg = ppm=parts per million , "—"=Not regulated 无规定

N.D.=Not Detected(less than method detection limit),未检出(小于方法检出限)

Resting Technology 探州市虹彩检测 技术有限公司 报告专用章

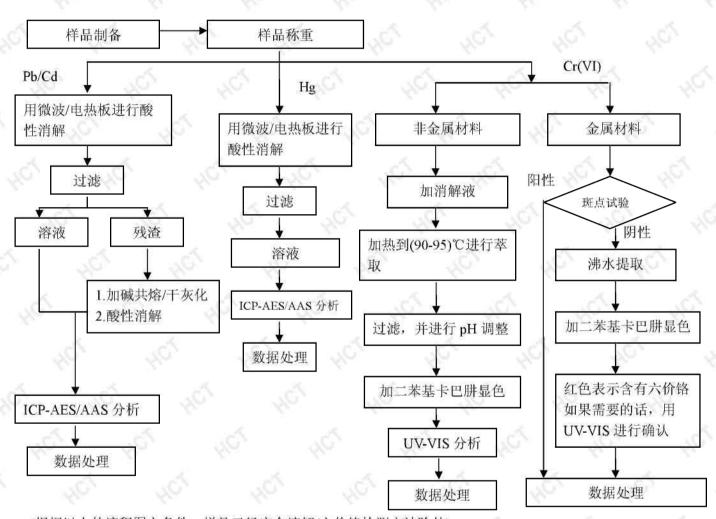


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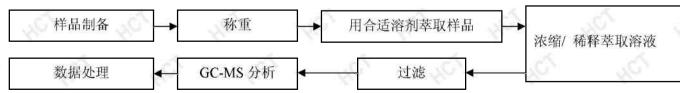
页数(Page): 3 of 5

检测流程图



根据以上的流程图之条件,样品已经完全溶解(六价铬检测方法除外)。

PBBs/PBDEs





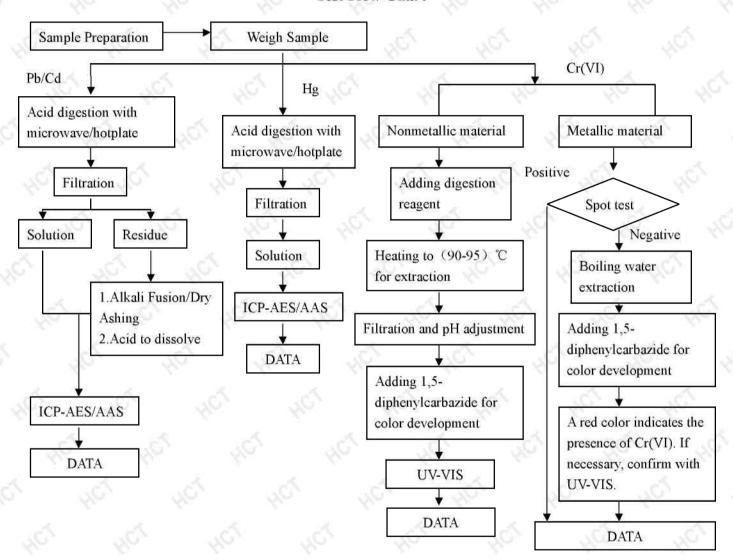


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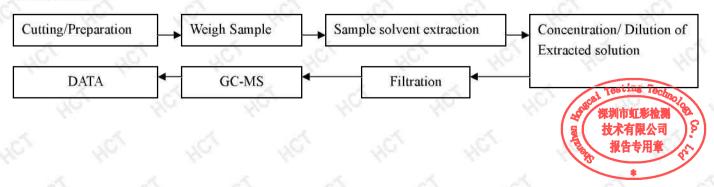
页数(Page): 4 of 5

Test Flow Chart



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr(VI) test method excluded)

PBBs/PBDEs





检测报告编号(Report No.): SZC16012081311-1

日期(Date): 2016/1/23

页数(Page): 5 of 5

样品附图(The photo of the sample)



报告结束(End)

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Test Report No. CANEC1606725106 Date: 28 Apr 2016 Page 1 of 4

HOKURIKU ELECTRIC INDUSTRY CO., LTD.

3158 Shimo-okubo, Toyama City, Toyama Pref. Japan

The following sample(s) was/were submitted and identified on behalf of the clients as: 1-3 TERMINALS

SGS Job No. : CP16-022348 - GZ Lot No. : LH1471216IBZ-004

Client Ref. Info. : STEEL LUMBER

Supplier:

Date of Sample Received: 20 Apr 2016

Testing Period : 20 Apr 2016 - 26 Apr 2016

Test Requested : Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Echo

Echo Yeung Approved Signatory



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Attention:To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443.



No. CANEC1606725106

Date: 28 Apr 2016

Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN16-067251.005 Silver-grey metal

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

Test Item(s)	<u>Limit</u>	Unit	MDL	<u>005</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼		µg/cm²	0.10	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm2). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm2 and 0.13 µg/cm2 is considered to be inconclusive unavoidable coating variations may influence the determination

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.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f? p=104:30:1742232870351101::::FSP_ORG_ID, FSP_LANG_ID:1258637,25



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No. CANEC1606725106

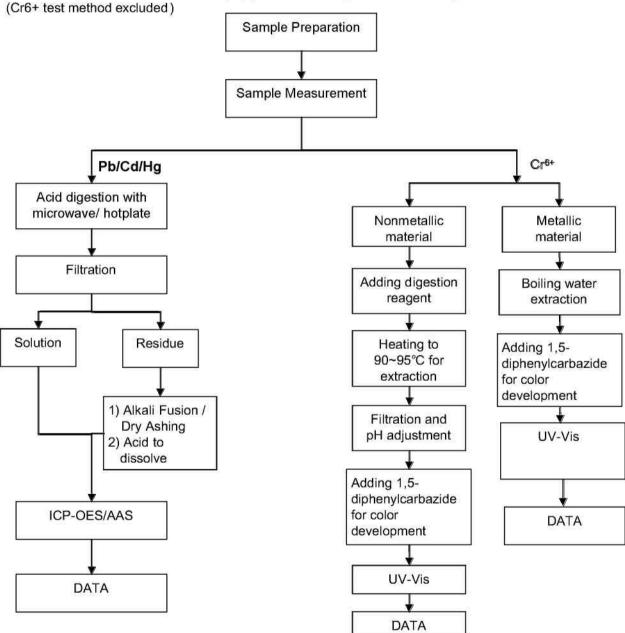
Page 3 of 4

Date: 28 Apr 2016

ATTACHMENTS

Pb/Cd/Hg/Cr6+ Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao
- 2) Name of the person in charge of testing: Bella Wang
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart.





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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com

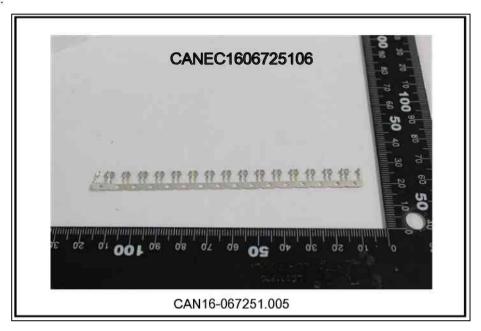


No. CANEC1606725106

Date: 28 Apr 2016

Page 4 of 4

Sample photo:



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Test Report No. CANEC1606725107 Date: 28 Apr 2016 Page 1 of 4

HOKURIKU ELECTRIC INDUSTRY CO., LTD.

3158 Shimo-okubo, Toyama City, Toyama Pref. Japan

The following sample(s) was/were submitted and identified on behalf of the clients as: 2 TERMINAL

SGS Job No.: CP16-022348 - GZ

Lot No.: 2060856

Client Ref. Info. : STEEL LUMBER

Supplier:

Date of Sample Received: 20 Apr 2016

Testing Period: 20 Apr 2016 - 26 Apr 2016

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Echo

Echo Yeung Approved Signatory



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Attention:To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443.



Test Report No. CANEC1606725107 Date: 28 Apr 2016 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN16-067251.006 Silver-grey metal

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

Test Item(s)	<u>Limit</u>	Unit	MDL	006
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼		µg/cm²	0.10	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm2). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 μ g/cm2 and 0.13 μ g/cm2 is considered to be inconclusive unavoidable coating variations may influence the determination

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.

IEC 62321 series is equivalent to EN 62321 series

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No. CANEC1606725107

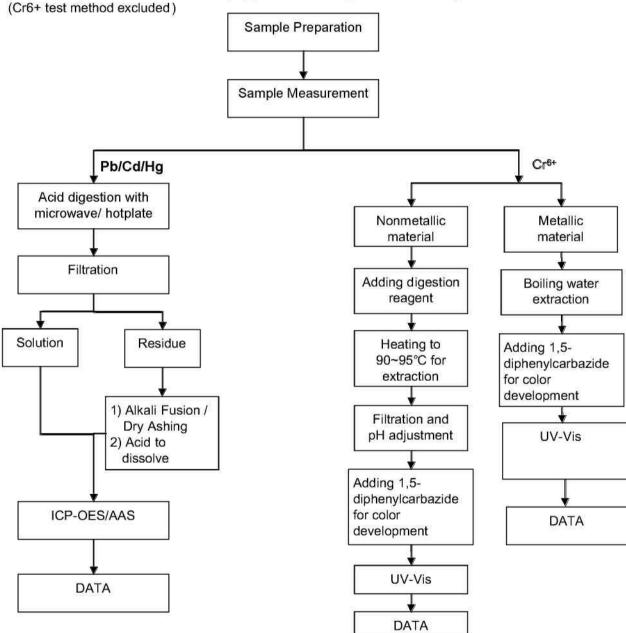
Date: 28 Apr 2016

Page 3 of 4

ATTACHMENTS

Pb/Cd/Hg/Cr6+ Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao
- 2) Name of the person in charge of testing: Bella Wang
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart.





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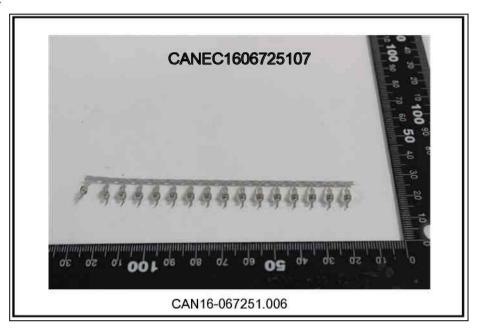
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Date: 28 Apr 2016 Page 4 of 4

Sample photo:



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Test Report No. CANEC1606725108 Date: 28 Apr 2016 Page 1 of 4

HOKURIKU ELECTRIC INDUSTRY CO., LTD.

3158 Shimo-okubo, Toyama City, Toyama Pref. Japan

The following sample(s) was/were submitted and identified on behalf of the clients as : MOVING CONTACT

SGS Job No. : CP16-022348 - GZ

Lot No.: 01A.15.12.23009A-1

Client Ref. Info. : COPPER ALLOY

Supplier:

Date of Sample Received: 20 Apr 2016

Testing Period : 20 Apr 2016 - 26 Apr 2016

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Echo

Echo Yeung Approved Signatory



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Test Report No. CANEC1606725108 Date: 28 Apr 2016 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN16-067251.007 Silver-grey metal

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

Test Item(s)	<u>Limit</u>	Unit	MDL	007
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	16
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼		µg/cm ²	0.10	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
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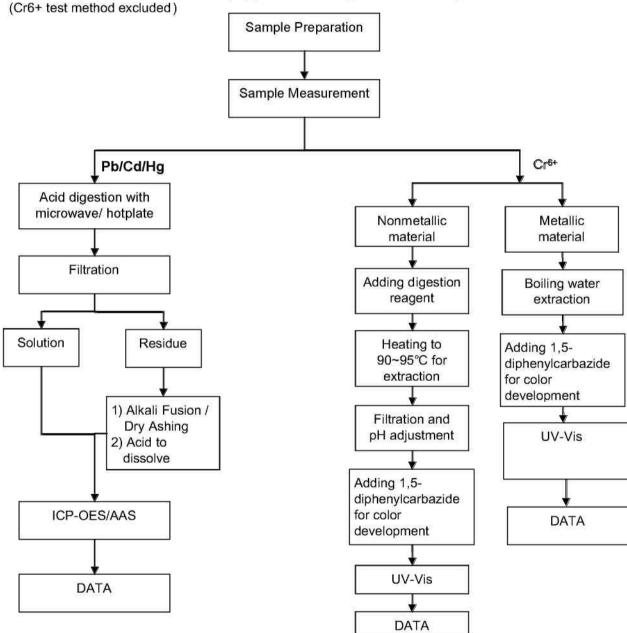
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ATTACHMENTS

Pb/Cd/Hg/Cr6+ Testing Flow Chart

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- 2) Name of the person in charge of testing: Bella Wang
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart.





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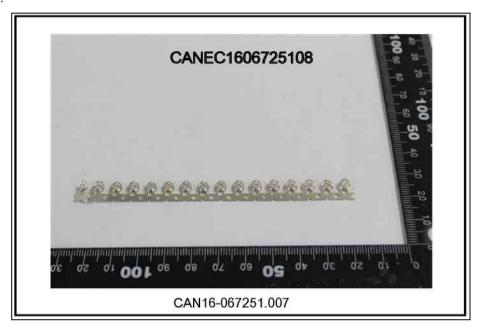


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