

No. CANEC1605855701

Date: 21 Apr 2016

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HOPERISE CONDUCTOR(DONGGUAN) COMPANY LIMITED

QIAO ZI REGION CHANGPING TOWN, DONGGUAN CITY, GUANGDONG PROVINCE CHINA

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

CP16-020052 - GZ
Sample Description:silvery plating on metal
Material:Base material Cu
Sample Description:silver color plating
11 Apr 2016
11 Apr 2016 - 18 Apr 2016
Selected test(s) as requested by client.
Please refer to next page(s).
Please refer to next page(s).
Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) 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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No. CANEC1605855701

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN16-058557.001	Silvery plated metal

Remarks :

- (1) 1 mg/kg = 1 ppm = 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.
(5)With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	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	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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<u>Test Item(s)</u>	Limit	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenvl ether	-	ma/ka	5	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

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND



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<u>Test Item(s)</u>	CAS NO	<u>).</u> <u>Unit</u>	MDL	<u>001</u>
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Ace Fluorene, Phenanthrene, Pyrene, Ant Fluoranthene	enaphthene, - thracene,	mg/kg	-	ND
Sum of 18 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	ory 2	Category	3
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not category 1 wit foreseeable c skin for longe (long-term ski frequent conta	falling under h ontact to r than 30 s n) or act.	Materials not falling category 1 or 2 with contact to skin for le (short-term skin con	under foreseeable ss than 30 s tact).
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	< 1	< 2	2	< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

PFOS (Perfluorooctane sulfonates)

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS.



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Test Report	No. CANEC1605855701	Date: 21 Apr 2016	Page	6 of 10
<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Perfluorooctane Sulfonates (PFOS)^	-	µg/m²	1.0	ND

Notes :

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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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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ATTACHMENTS

PFOA / PFOS Testing Flow Chart

1) Name of the person who made testing: Zhihong Wang

2) Name of the person in charge of testing: Cutey Yu





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ATTACHMENTS

PAHs Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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Sample photo:



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*** End of Report ***



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No. : CE/2015/92215

Date : 2015/09/11

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SHINKONG SYNTHETIC FIBERS CORPORATION (SHINKONG INDUSTRY (HANGZHOU) CO., LTD) (SHINKONG INDUSTRY (HANGZHOU) CO., LTD) 8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN (NO.1, AVENUE 6, ECONOMY & TECHNOLOGY DEVELOPMENT ZONE, HANGZHOU, CHINA)

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

Sample Submitted By	: SHINKONG SYNTHETIC FIBERS CORPORATION
Sample Description	: THERMOPLASTIC POLYESTER RESIN
Style/Item No.	: SHINITE® PBT E202G30BK
Manufacturer/Vendor	: SHINKONG SYNTHETIC FIBERS CORPORATION
Country of Origin	: TAIWAN
Sample Receiving Date	: 2015/09/08
Testing Period	: 2015/09/08 TO 2015/09/11
Test Requested	: As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.

- Test Method : Please refer to next pages.
- **Test Result(s)** : Please refer to next page(s).



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No. : CE/2015/92215

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Test Result(s)

PART NAME No.1

: BLACK PLASTIC PELLETS

	Unit	Mathad	МП	Result
rest item(s)	Unit	Metrioa		No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	10.2
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Sum of PBBs	mg/kg		-	n.d.
Monobromobiphenyl	mg/kg		5	n.d.
Dibromobiphenyl	mg/kg		5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.
Octabromobiphenyl	mg/kg		5	n.d.
Nonabromobiphenyl	mg/kg		5	n.d.
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6: 2015	5	n.d.
Sum of PBDEs	mg/kg	and performed by GC/MS.	-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg		5	n.d.
Tribromodiphenyl ether	mg/kg		5	n.d.
Tetrabromodiphenyl ether	mg/kg		5	n.d.
Pentabromodiphenyl ether	mg/kg		5	n.d.
Hexabromodiphenyl ether	mg/kg		5	n.d.
Heptabromodiphenyl ether	mg/kg		5	n.d.
Octabromodiphenyl ether	mg/kg		5	n.d.
Nonabromodiphenyl ether	mg/kg		5	n.d.
Decabromodiphenyl ether	mg/kg		5	n.d.

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Baga: 2



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Date : 2015/09/11

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SHINKONG SYNTHETIC FIBERS CORPORATION (SHINKONG INDUSTRY (HANGZHOU) CO., LTD) (SHINKONG INDUSTRY (HANGZHOU) CO., LTD) 8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN (NO.1, AVENUE 6, ECONOMY & TECHNOLOGY DEVELOPMENT ZONE, HANGZHOU, CHINA)

Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated

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No. : CE/2015/92215

Date : 2015/09/11

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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. $(Cr^{6+}$ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Note** : (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
 (2) For metallic material, add pure water and heat to boiling.

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PBB/PBDE analytical FLOW CHART

Name of the person who made measurement: Roman Wong

■ Name of the person in charge of measurement: Troy Chang



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* The tested sample / part is marked by an arrow if it's shown on the photo. *



** End of Report **

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SCL011004140008

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ApplicantTONG BAO METAL & PLATING FACTORYAddressNIU QUN PU INDUSTRIAL ZONE ,CHANG SHOU ROAD , JIU TAN , YUAN
ZHOU TOWN, BO LUO COUNTY,HUIZHOU CITY, GUANGDONG PROVINCE,
P,R,CHINA

The following sample(s)	and sample information was/were submitted and i	dentified by/on the
behalf of the client		
Sample Name	Nickel -Plate	
Color	Silvery gray	
Sample Received Date	Jan. 16, 2016	
Testing Period	Jan. 16, 2016 to Jan. 20, 2016	
Test Requested	As specified by client, to test Lead (Pb), Cadmiun Hexavalent Chromium(Cr(VI)), Perfluorooctane S	n (Cd), Mercury (Hg), Sulfonates(PEOS)

Perfluorooctanoic Acid(PFOA) in the submitted sample(s).

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	Refer to IEC 62321-5:2013 Ed.1.0	ICP-OES
Cadmium (Cd)	Refer to IEC 62321-5:2013 Ed.1.0	ICP-OES
Mercury (Hg)	Refer to IEC 62321-4:2013 Ed.1.0	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015	UV-Vis
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
Perfluorooctanoic Acid(PFOA)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
6.51 6.51	10.5	10.3

Test Result(s)

Please refer to the following page(s).

Cathy Yuang inter Line Reviewed by Jan. 20, 2016 Date Danny Liu Technical Manager No. R169562068 refesting International Group Co.,Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China











Tested Item(s)	Result	MDL
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D. (Negative)	0.02 µg/cm ²
Tested Item(s)	Result	MDL
Perfluorooctane Sulfonates(PFOS)	N.D.	0.5 μg/m ²
Perfluorooctanoic Acid(PFOA)	N.D.	0.5 μg/m ²

Tested Sample/Part Description Silvery plating

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

 $-\ln g/\kappa g = ppin = parts per minimum$ $Nagativa = A haanaa of <math>C_{\tau}(M)$. The $C_{\tau}(M)$ across

-Negative = Absence of Cr(VI). The Cr(VI) concentration detected in the boiling water

extraction solution is less than $0.10 \mu g/cm^2$

















No. CANEC1602797901

Date: 08 Mar 2016

Page 1 of 6

HUISHENG PLASTICS (SHENZHEN) CO., LTD.

NO.2 NINETY-NINE INDUSTRIAL AREA, MINZHU VILLAGE, SHAJING TOWN, BAOAN DISTRICT OF SHENZHEN, GUANGDONG CHINA

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

SGS Job No. :	CP16-008813 - SZ
Client Ref. Info. :	SR-PVC
Date of Sample Received :	01 Mar 2016
Testing Period :	01 Mar 2016 - 04 Mar 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, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) 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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Member of the SGS Group (SGS SA)



No. CANEC1602797901

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN16-027979.001	Gray plastic grains

Remarks :

- (1) 1 mg/kg = 1 ppm = 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. (6)With reference to EN 14372:2004, determination of phthalates by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	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	-	ND



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Test Report	No. CANEC16027979	Date: (08 Mar 2016	Page 3 of 6	
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Monobromodiphenyl ether	-	mg/kg	5	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	30	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	30	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	30	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	30	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.



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No. CANEC1602797901

Date: 08 Mar 2016

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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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No. CANEC1602797901

Date: 08 Mar 2016

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ATTACHMENTS

Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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Sample photo:



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No. CANEC1600227001

Date: 08 Jan 2016

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FOSHAN SHUNDE HETAI STEEL TRADE CO., LTD. LECONG TOWN LUZHOU DEVELOP DISTRICT SHUNDE FOSHAN CHINA

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

SGS Job No. :	CP16-000608 - GZ
Date of Sample Received :	06 Jan 2016
Testing Period :	06 Jan 2016 - 08 Jan 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

Trophy Zhang Approved Signatory



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No. CANEC1600227001

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN16-002270.001	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.

<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
100	mg/kg	2	ND
1,000	mg/kg	2	ND
1,000	mg/kg	2	ND
-	µg/cm²	0.10	ND
	<u>Limit</u> 100 1,000 1,000 -	Limit Unit 100 mg/kg 1,000 mg/kg 1,000 mg/kg - μg/cm²	<u>Limit</u> <u>Unit</u> <u>MDL</u> 100 mg/kg 2 1,000 mg/kg 2 1,000 mg/kg 2 - μg/cm² 0.10

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 $\mu g/cm2$ and 0.13 $\mu g/cm2$ 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

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



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No. CANEC1600227001

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.

(Cr6+ test method excluded)





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No. CANEC1600227001

Sample photo:



SGS authenticate the photo on original report only

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以下測試樣品係由申請廠商所提供及確認	2	(The following sample(s) was/were submitted and identified by/on
behalf of the applicant as):		
送樣廠商(Sample Submitted By) :		名佳利金屬工業股份有限公司(MINCHALI METAL INDUSTRY CO., LTD.)
樣品名稱(Sample Description) :		黄銅
樣品型號(Style/Item No.) :		C2680(65/35)
收件日期(Sample Receiving Date) :		2015/12/30
测试期間(Testing Period) :		2015/12/30 TO 2016/01/11

测試需求(Test Requested):

- (1) 依據客戶指定,參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴 聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)
- (2) 依據客戶指定,進行全氟辛酸、全氟辛烷磺酸測試. (As specified by client, to test PFOA, PFOS contents in the submitted sample.)

测试结果(Test Results) : 請見下一頁 (Please refer to next pages).



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<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 黃銅色金屬 (BRASS METAL)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
鎘 / Cadmium (Cd)	mg/kg	参考IEC 62321-5: 2013方法, 以感應耦 合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦 合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	10.5
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦 合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	µg/cm²	参考IEC 62321-7-1:2015,以UV-VIS檢 測. / With reference to IEC 62321- 7-1:2015 and performed by by UV- VIS.	0.10	n. d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	参考US EPA 3550C: 2007方法, 以液相 層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n. d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	参考US EPA 3550C: 2007方法, 以液相 層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n. d.

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測試報告 號碼(No.): CE/2015/C6129 日期(Date): 2016/01/11

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
鄰苯二甲酸丁苯甲酯 / BBP (Butyl	mg/kg		50	n. d.
Benzyl phthalate) (CAS No.: 85-68-7)				
鄰苯二甲酸二丁酯 / DBP(Dibutyl	mg/kg	冬老IFC 62321-8(111/321/CD),以每	50	n. d.
phthalate) (CAS No.: 84-74-2)		相層析儀/質譜儀檢測之 / With		
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP	mg/kg	reference to IEC 62321-8	50	n. d.
(Di- (2-ethylhexyl) phthalate) (CAS		(111/321/CD). Analysis was		
No.: 117-81-7)		performed by GC/MS.		
鄰苯二甲酸二異丁酯 / DIBP(Di-	mg/kg		50	n. d.
isobutyl phthalate) (CAS No.: 84-69-				
5)				
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n. d.
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5 -	n. d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.
四溴聯苯 / letrabromobiphenyl	mg/kg		5 -	n. d.
五淏聯本 / Pentabromobiphenyl	mg/kg		5	n. d.
六次聯本 / Hexabromodipnenyi	mg/kg		5	n. d.
七次聯本 / Heptabromoblphenyl	mg/kg		5	n.d.
八次 柳本 / OctabrolloD1phenyl	mg/kg	ななIFC CODO1 C 0015 ナル いたい日	<u>р</u>	n.d.
九次 - 「NOHADI OHIODI PHEHY I	mg/kg	参考IEU 02321-0:2013方法,以黑相僧 长/所述佳校测 / With motoronoo to	Э 	n.d.
「 漢柳本 / Decall ollion plienty i 名追聯某動始報 / Sum of DBDFo	mg/kg	析/頁譜俄檢測。/ WILLI FEFEFENCE LO	Э	n.d.
シ决帯本電磁や / Sum Of IDDES	mg/kg	CC/MS	5	n d
· 決聯 苯醚 / Monobio Modiphenyl ether	mg/kg	00/ m3.	5	n d
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n d
四溴聯苯醚 / Tetrabromodinbenyl ether	mg/kg		5	n d
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n d
立溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/ng mg/kg		5	n d
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n d
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n. d.

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備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. (#2) =

a. 當六價絡結果大於0.13 µg/cm²,表示樣品表層含有六價鉻. / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI). b. 當六價絡結果為n.d. (濃度小於0.10 µg/cm²),表示表層不含六價鉻. / The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating

c. 當六價鉻結果介於 0.10 及 0.13 µg/cm² 時,無法確定塗層是否含有六價鉻. / The result between 0.10 µ g/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品 或塗層材料中不得超過1µg/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $l_{\mu g/m^2}$.)

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- 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 测試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
- (2) 針對金屬材料加入純水,加熱至沸腾萃取. / For metallic material, add pure water and heat to boiling.

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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 测試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 测試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang



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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員: 徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang

【测試方法/Test method: IEC 62321-8】



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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
 測試負責人: 張啟興 / Name of the person in charge of measurement: Troy Chang 初次測試程序 / First testing process →
 選擇性篩檢程序 / Optional screen process →
 確認程序 / Confirmation process → · →



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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2015/C6129



** 報告結尾 (End of Report) **

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