

SPECIFICATIONS 規格書

CUSTOMER MODEL NO. / TITLE 2.5Ø EARPHONE JACK	SPECIFICATION NO.: LJE0251系列	PAGE: 1 OF 4 DATE: 13-DEC-2006
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1). SCOPE 適用範圍 .

This specification covers " 2.5Ø EAR PHONE JACK " 2.5Ø 插座

2). CHARACTERISTICS 性能 .

Standard atmospheric specified, measurements shall be made at temperature , humidity and air pressure within the following limit :

Ambient temperature	:	5℃ to 35℃
Relative humidity	:	45 % to 85 %
Air pressure	:	85 Kpa to 106 Kpa

標準狀態: 沒有特別指定時, 測試是在常溫、常濕、常壓下進行.

常 溫	:	溫度 5℃ ~ 35℃
常 濕	:	濕度 45 % ~ 85 %
常 壓	:	氣壓 85Kpa ~ 106Kpa

Operating temperature range	:	- 20℃ to 60℃
使用溫度範圍	:	- 20℃ ~ 60℃
Storage temperature range	:	- 25℃ to 70℃
保存溫度範圍	:	- 25℃ ~ 70℃

3). ELECTRICAL CHARACTERISTICS 電氣性能 .

Item 項目	Test Conditions 條件	Specification 規格
<3a>. Rated Voltage/ Rated Current 核定電壓 / 電流		DC 16V 20mA--0.3A
<3b>. Insulation Resistance 絕緣阻抗	A voltage of 500V DC shall be applied to the terminals. After which measurement shall be made. DC 500V	100M Ω or more ≥ 100M Ω

SPECIFICATIONS 規格書

CUSTOMER MODEL NO. / TITLE		SPECIFICATION	PAGE: 2 OF 4
2.5Ø EARPHONE JACK		NO.: LJE0251系列	DATE: 13-DEC-2006
<3c>.Contact Resistance 接觸阻抗	Measurement shall be made at 1 K Hz with 100 mA or less 在1 K Hz,100 mA以下電流做測定 (With the test plug as show in item 6) (測試用插棒參考第6項) <1>Initial before any testing 初始,在做任何測試前 <a>Pin to contact or (N.C.). 端子與分路間, (T-TS,R-RS) (常閉) Plug shield to socket or (N.O.). 插棒(t,r,s,)插入後與插座(T,R,S,)間 (常開) <2>After life test with mating plug 在以對應插棒做壽命試驗後 <a>Pin to contact or (N.C.). 端子與分路間(T-TS,R-RS) (常閉) Plug shield to socket or (N.O.). 插棒(t,r,s,)插入後與插座(T,R,S,)間 (常開)	30mΩ or Less ≤ 30mΩ 50mΩ or Less ≤ 50mΩ 60mΩ or Less ≤ 60mΩ 100mΩ or Less ≤ 100mΩ	
<3d>.Dielectric Strength 耐電壓	Withstand 0.5 mA (Trip current) 500V AC (50 or 60 Hz) between any open terminal for 1 minute. 可承受 0.5 mA (感度電流), AC 500V (50 or 60 Hz) . 1分鐘, 在任何 open 端子之間. (Open terminal: Between each terminal which should not make contact , before plug insert to socket T-R,R-S, after plug insert to socket T-TS,R-RS) (Open 端子: 指相互未接觸的端子,如未插入 plug 時之 T-R,R-S 插入 plug 後之 T-TS,R-RS)	Without distinct damage 無異常	

SPECIFICATIONS 規格書

CUSTOMER MODEL NO. / TITLE 2.5Ø EARPHONE JACK	SPECIFICATION NO.: LJE0251系列	PAGE: 3 OF 4 DATE: 13-DEC-2006
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4). MECHANICAL CHARACTERISTICS 機械性能

<4a>.

Item 項目	Conditions 條件	Insertion force 插入力	Withdrawal force 拔出力
Insertion force and Withdrawal force	(With the test plug as show in item 6) (測試用插棒規格參考第 6 項) Initial 初始	0.3kgf ~ 2.0kgf	0.3kgf ~ 2.0kgf
插入力 / 拔出力	After life test 壽命試驗後	0.3kgf ~ 2.0kgf	0.3kgf ~ 2.0kgf

<4b>.Terminal strength 端子強度

Terminals must withstand a 500g minimum pull for 10 seconds before movement or break from housing occurs , but deformation of terminal is authorized .

各端子部須測試荷重 500g, 10秒, 端子不可有脫落或塑膠本體不可有破裂等情況, 但端子部彎曲, 變形可接受。

5). ENDURANCE CHARACTERISTICS 耐久性能

<5a>.Life test 壽命試驗

The life test shall consist of 5,000 cycles of insertion and withdrawal with test plug(Show in item 6), at a rate of 20 to 30 cycles per minute under no load .

壽命試驗在無負荷狀態下 20 ~ 30 回 / 1 分鐘的插入及拔出, 做 5,000 回, 測試用插棒 (參考第 6 項) .

<5b>.Soldering test 焊錫試驗

<5b-1>.Solderability 焊錫性

The terminal of JACK tested shall be dipped into soldering flux or equivalent for 5 ~ 10 seconds and then immersed into molten solder Sn at $245 \pm 5^{\circ}\text{C}$ for 3 ± 0.5 seconds, the coverage should more than 95% .

插座端子部, 浸助焊劑 5 ~ 10 秒, 再浸 Sn 溶液—溫度 $245 \pm 5^{\circ}\text{C}$. 時間 3 ± 0.5 秒, 端子部上錫覆蓋面積須達 95% 以上。

SPECIFICATIONS 規格書

CUSTOMER MODEL NO. / TITLE	SPECIFICATION	PAGE: 4 OF 4
2.5Ø EARPHONE JACK	NO.: LJE0251系列	DATE: 13-DEC-2006

<5b-2>.Soldering heat 上錫耐熱性

The terminal for a printed circuit board .

Temperature of solder : $260 \pm 5^{\circ}\text{C}$

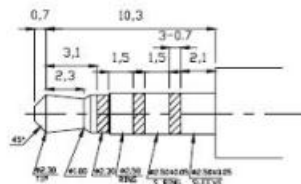
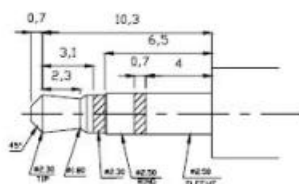
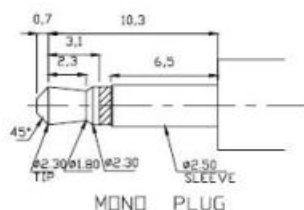
Dip time : 5 ± 1 seconds .

端子部與銅箔面上錫溫度與時間 .

溫 度 : $260 \pm 5^{\circ}\text{C}$

時 間 : 5 ± 1 秒 .

6). MATED PLUG 適用插棒



NAN YA PLASTICS CORP PLASTICS 4TH DIV

3RD FL, 201 TUNG HWA NORTH RD, TAIPEI TW

1403G6**Polybutylene Terephthalate (PBT), furnished as pellets**

	Min Thk	Flame			RTI	RTI	RTI
Color	(mm)	Class	HWI	HAi	Elec	Imp	Str
ALL	0.75	V-0	3	0	130	130	140
	1.5	V-0	2	0	130	130	140
	3.0	V-0	2	0	130	130	140

Comparative Tracking Index

(CTI): **2**

Inclined Plane Tracking (IPT): -

Dielectric Strength (kV/mm): **33**Volume Resistivity (10^9 ohm-cm): **14**

High-Voltage Arc Tracking Rate

(HVTR): **1**

High Volt, Low Current Arc Resis

(D495): **6**

Dimensional Stability (%): 0

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents.

ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1991-01-11

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Last Revised: 2003-10-24

Inc.



IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness	
			Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.75	V-0 (ALL)
			1.5	V-0 (ALL)
			3.0	V-0 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m²	-	-
ISO Izod Impact	ISO 180	kJ/m²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m²	-	-

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Test Report

No. CANEC1306359901

Date: 09 May 2013

Page 1 of 7

NAN YA PLASTICS (HUIZHOU) CO., LTD.

YONGSHI BOULEVARD, SHIWAN TOWN, BOLUO COUNTY, HUIZHOU CITY, GUANGDONG P.R.
516127, CHINA

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

SGS Job No. : CP13-021769 - GZ
Model No. : 1403G3
Client Ref. Info. : 1100,1101FB,1300,1210G3,1210G6,1403G3,1403G4,1403G6,1410G3,1410G6,
140PG3,140PG6,141PG3,141PG6,1512 . 1210G(a),1403G(a),1410G(a),1408G
(a)
Date of Sample Received : 03 May 2013
Testing Period : 03 May 2013 - 09 May 2013
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 samples, the results 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 Ltd.



Almay Gao
Approved Signatory

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Test Report

No. CANEC1306359901

Date: 09 May 2013

Page 2 of 7

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-063599.001	White 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 2011/65/EU

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	7
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
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report

No. CANEC1306359901

Date: 09 May 2013

Page 3 of 7

Test Item(s)	Limit	Unit	MDL	QOI
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

Notes :

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

Hexabromocyclododecane (HBCDD)

Test Method : Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	Unit	MDL	QOI
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes :

- (1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC:
Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

Phthalate

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.

Test Item(s)	Unit	MDL	QOI
Dibutyl Phthalate (DBP)	% (w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	% (w/w)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	% (w/w)	0.003	ND

Notes :

- (1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC:
Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

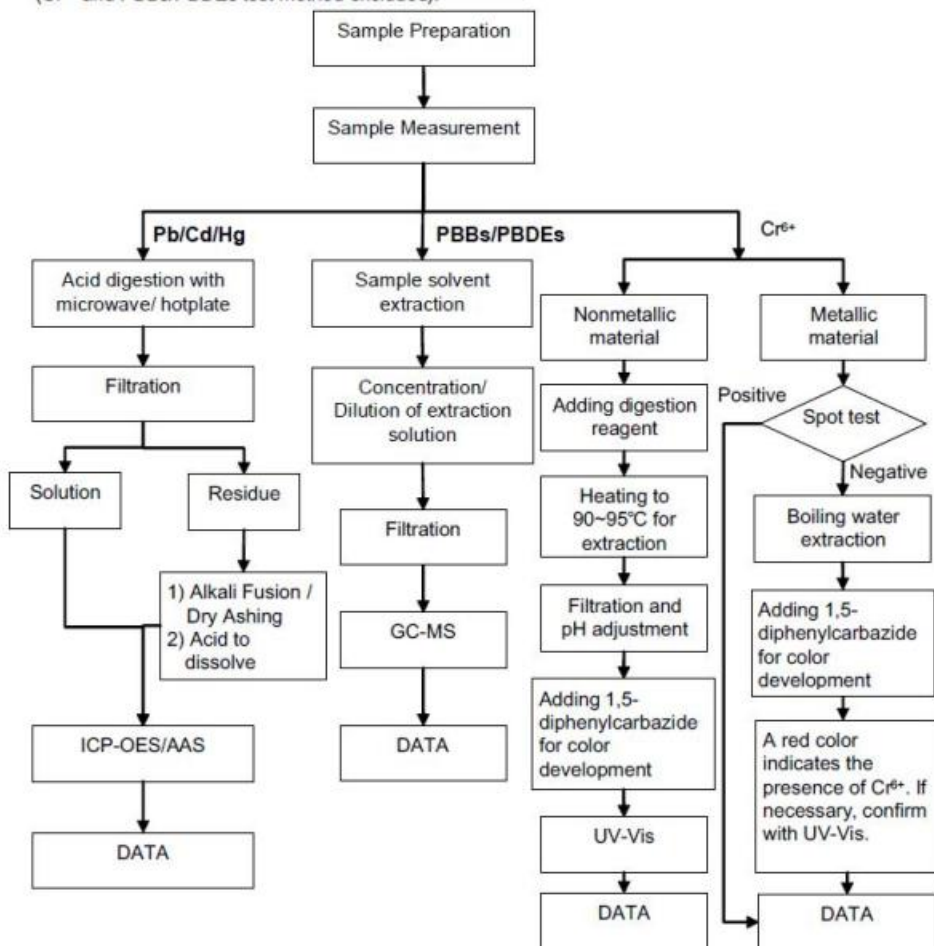
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).

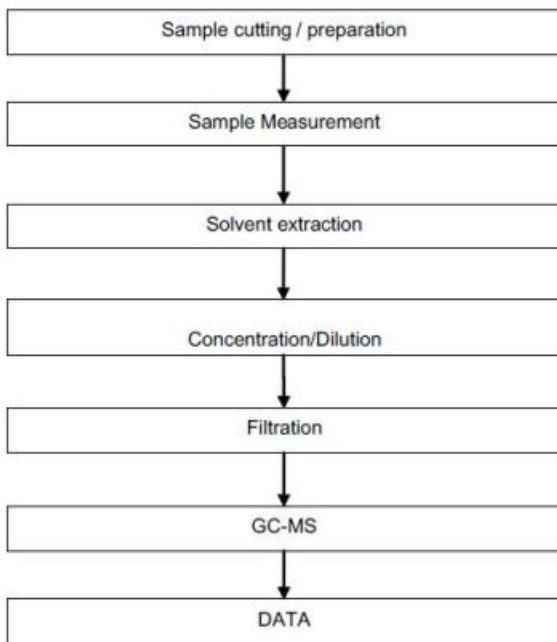


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ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Liu Qiong
- 2) Name of the person in charge of testing: Yolanda Wei



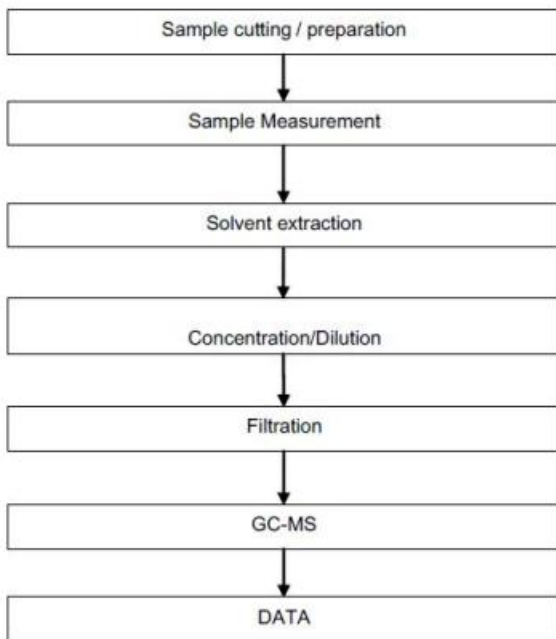
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ATTACHMENTS

HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Yolanda Wei



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Test Report

No. CANEC1306359901

Date: 09 May 2013

Page 7 of 7

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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To whom it may concern**EU Directive 2002/95/EC and amendments:**

We herewith confirm that

MASTERBATCH

ROWALID™ PA-10331 black
ROWALID™ PA-50804 lime
ROWALID™ PA-21607 pink
ROWALID™ PA-63060 blue
ROWALID™ PA-63156 violet
ROWALID™ PA-51673 green
ROWALID™ PA-41259 orange
ROWALID™ PA-18006 grey

Complies with the requirements of EU Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("RoHS-Directive") and Decisions 2005/618/EC and 2006/310/EC.

Common Decision 2005/618/EC of 18 August 2005 is amending Annex of Directive 2002/95/EC for the purpose of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment. Hence a maximum concentration value in homogeneous materials of 0,1 % by weight for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) and of 0,01 % by weight for cadmium shall be tolerated.

Compounds of cadmium, lead, mercury and hexavalent chromium, flame retardants PBB and PBDE have not been intentionally added for the production of our thermoplastic resins and are not present with the exception of technically unavoidable traces far below the tolerated maximum concentration values.

EU Directive 2002/96/EC on waste electrical and electronic equipment ("WEEE-Directive") is regulating the recovery and disposal of waste electrical and electronic equipment. Therefore the compliance with this directive has to be confirmed by the manufacturer of the final parts. Some of our Pocan types contain non-regulated brominated flame retardants. We would like to point out that for parts made of these materials identification is required according to attachments II to enable a selective treatment.

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

Pinneberg, 19/11/2012

ROWA Masterbatch GmbH

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Fax: +49 4101 / 706 202
info@rowa-masterbatch.de

AG Pinneberg HRB 88 65 PI
Geschäftsführer:
Anna Höck
USt-ID-Nr.: DE 272946600
www.rowa-masterbatch.de

Deutscher Bank AG
BLZ 200 700 00 - Kto. 0634408
IBAN DE51 2167 9000 0063 4409 00
BIC (SWIFT) DEUT33HAN33

Test Report

No. CANEC1301416107

Date: 30 Jan 2013

Page 1 of 4

DONGGUAN ZHENGXIN METAL MATERIAL CO.,LTD.

NO.196,SHIDA ROAD,QUANTANG VILLAGE,LIAOBU TOWN,DONGGUAN CITY
CHINA

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

SGS Job No. : CP13-003749 - GZ

Date of Sample Received : 25 Jan 2013

Testing Period : 25 Jan 2013 - 30 Jan 2013

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 samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium 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 Ltd.



Trophy Zhang
Approved Signatory

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Test Report

No. CANEC1301416107

Date: 30 Jan 2013

Page 2 of 4

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-014161.004	Light copper-colored metal sheet

Remarks :

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

RoHS Directive 2011/65/EU

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	004
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	69
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative

Notes :

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) Spot-test:
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
- Boiling-water-extraction:
Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
Information on storage conditions and production date of the tested sample is unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

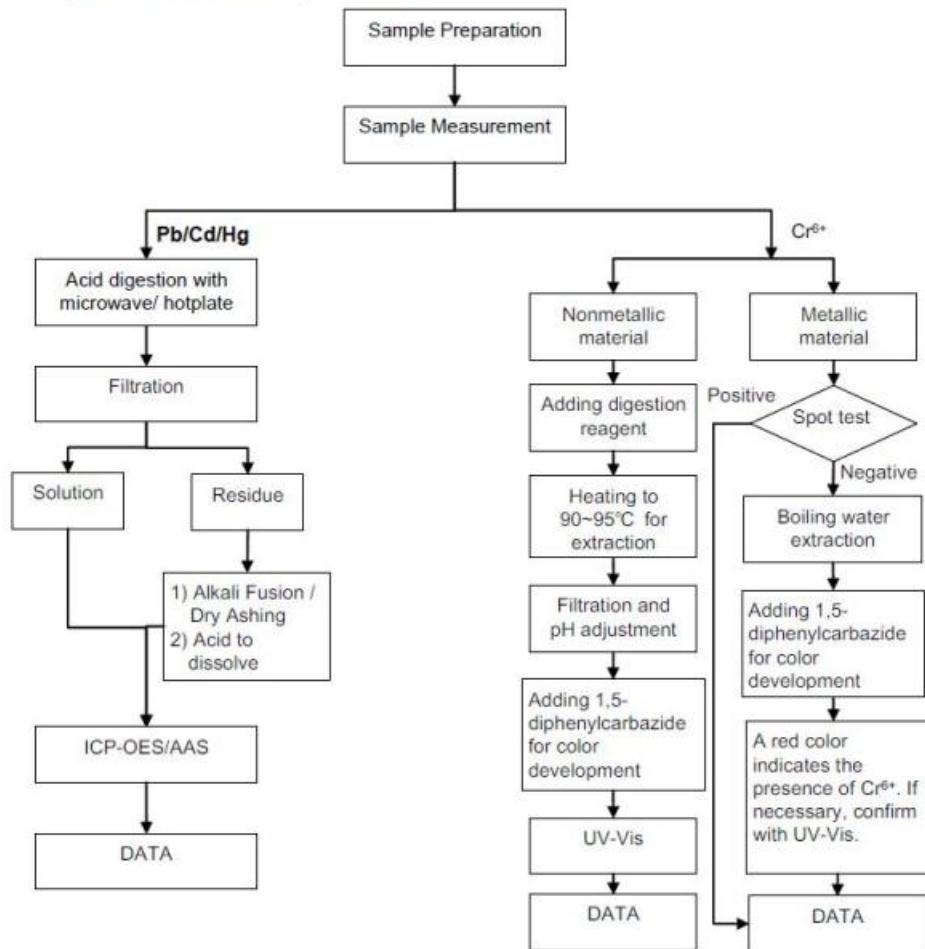
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso
- 2) Name of the person in charge of testing: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).



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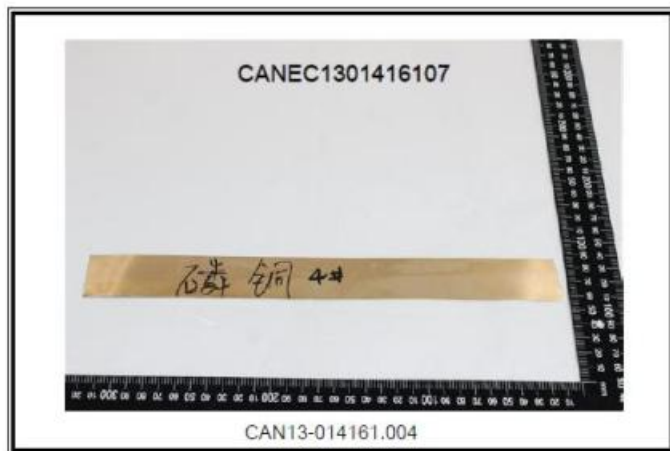
Test Report

No. CANEC1301416107

Date: 30 Jan 2013

Page 4 of 4

Sample photo:



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Test Report

No. CANEC1301416103

Date: 30 Jan 2013

Page 1 of 4

DONGGUAN ZHENGXIN METAL MATERIAL CO.,LTD.

NO.196,SHIDA ROAD,QUANTANG VILLAGE,LIAOBU TOWN,DONGGUAN CITY
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : H65(C2680)

SGS Job No. : CP13-003749 - GZ

Date of Sample Received : 25 Jan 2013

Testing Period : 25 Jan 2013 - 30 Jan 2013

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 samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium 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 Ltd.



Trophy Zhang
Approved Signatory

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Test Report

No. CANEC1301416103

Date: 30 Jan 2013

Page 2 of 4

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-014161.002	Brassy metal sheet

Remarks :

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

RoHS Directive 2011/65/EU

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	9
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative

Notes :

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) Spot-test:
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
- Boiling-water-extraction:
Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
Information on storage conditions and production date of the tested sample is unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

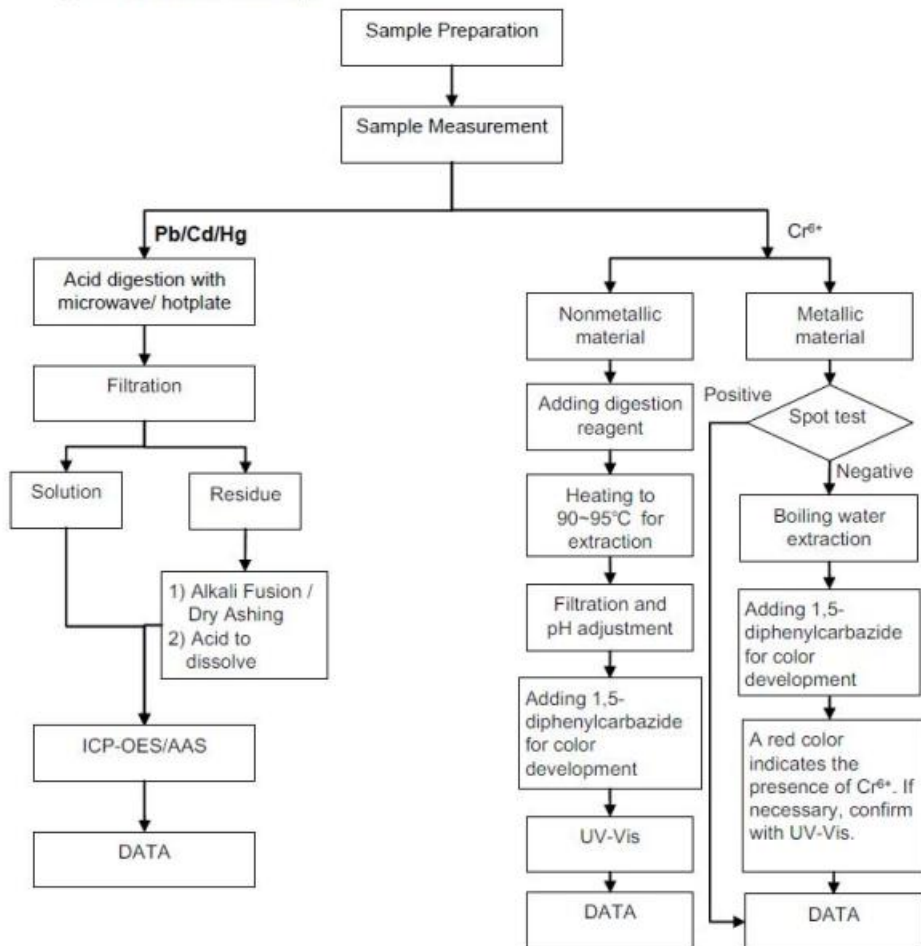
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso
- 2) Name of the person in charge of testing: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).



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Test Report

No. CANEC1301416103

Date: 30 Jan 2013

Page 4 of 4

Sample photo:



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测试报告

No. CANEC1305840202

日期: 2013年04月28日 第1页,共4页

东莞兆隆五金有限公司

中国广东省东莞市凤岗镇竹塘村东永盛北路

以下测试之样品是由申请者所提供及确认: H65黄铜线

SGS 任务编号: CP13-019729 - GZ

样品接收日期: 2013年04月24日

测试日期: 2013年04月24日 - 2013年04月28日

测试要求: 根据客户要求测试

测试方法: 请参见下一页

测试结果: 请参见下一页

结论: 基于所送样品进行的测试, 检测, 报告, 本报告的测试结果符合欧盟RoHS指令2002/95/EC的指令指令2011/65/EU测试的限值要求。

通标标准技术服务有限公司
授权签字

Trophy

Trophy Zhang 张静华
检验员/签字人

备注: 本报告的编号为CANEC1305840202, 以本报告中为准。

测试报告

No. CANEC1306840202

日期: 2013年04月26日 第2页,共4页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
1	CAN13-068402.001	黄铜色金属线

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未测定

RoHS指令2011/65/EU

测试方法: 参照IEC 62321:2008:

- (1) 用ICP-OES测定铜的含量
- (2) 用ICP-OES测定锡的含量
- (3) 用ICP-OES测定汞的含量
- (4) 用点测试法(额外)可见分光光度计比色法测定六价铬的含量

测试项目	测试值	单位	MDL	限制
铜(Cu)	100	mg/kg	2	ND
铅(Pb)	1,000	mg/kg	2	10
汞(Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))				阴性

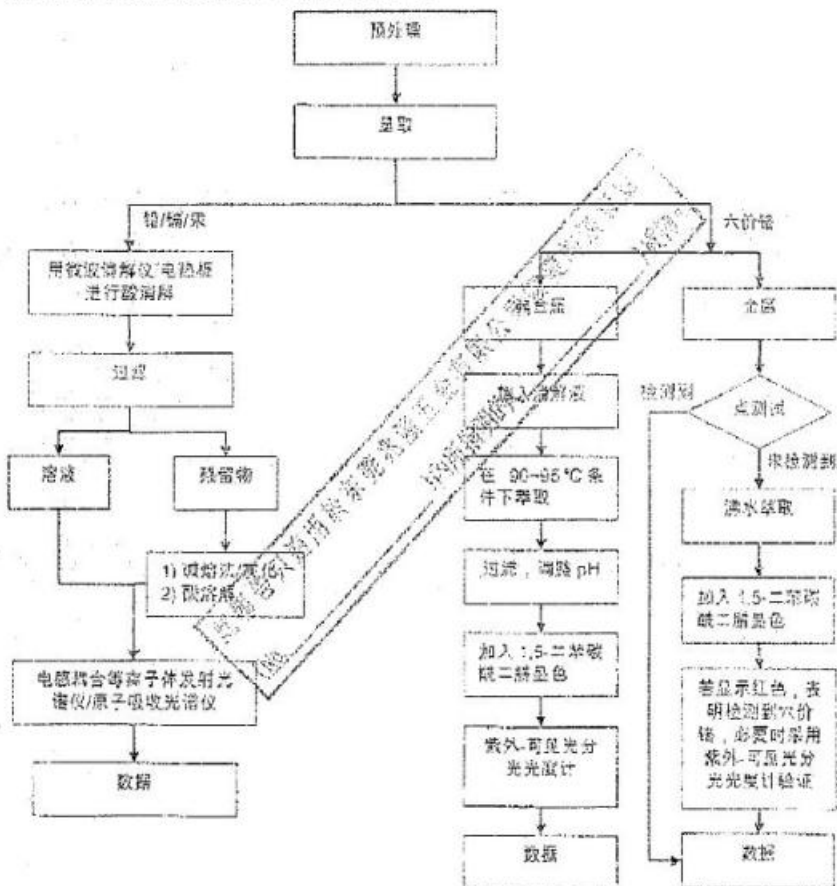
备注:

- (1) 最大允许浓度限制符合指令2011/65/EU附录II
- (2) 点测试法:
 - 阳性 = 检测到六价铬; 阴性 = 未检测到六价铬;
 - (当点测试结果含糊或无法确定时,将采用湿化学法作进一步的结果验证)
 - * 湿化学法:
 - 阳性 = 未检测到六价铬
 - 阴性 = 检测到六价铬; 表明50 cm²面积的被测试样品的湿化学萃取液中六价铬浓度等于或大于0.02 mg/kg
 - 由于样品测试的存储条件和生产日期,样品的六价铬测试结果仅代表测试时样品含六价铬的状态

附件

RoHS 测试流程图

- 1) 分析人员: 曹阳
- 2) 项目负责人: 朱奕东
- 3) 样品按照下述流程被完全溶解 (六价铬测试除外)。



Test Report

No. CANEC1314600401

Date: 22 Sep 2013

Page 1 of 4

SUPERIOR TECHNOLOGY (SHENZHEN) LIMITED

JIANGBIAN MINOR CONTAMINATION INDUSTRIAL AREA SONGGANG TOWN BAOAN DISTRICT SHENZHE
GUANGDONG

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

SGS Job No. : CP13-049485 - SZ
Date of Sample Received : 17 Sep 2013
Testing Period : 17 Sep 2013 - 22 Sep 2013
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).

Signed for and on behalf of
SGS-CSTC Ltd.



Alkene_Liang
Approved Signatory

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Test Report

No. CANEC1314600401

Date: 22 Sep 2013

Page 2 of 4

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-146004.001	Silver-gray plated metal sheet

Remarks :

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

Elementary Analysis

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 spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Unit	MDL	001
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	◇	Negative

Notes :

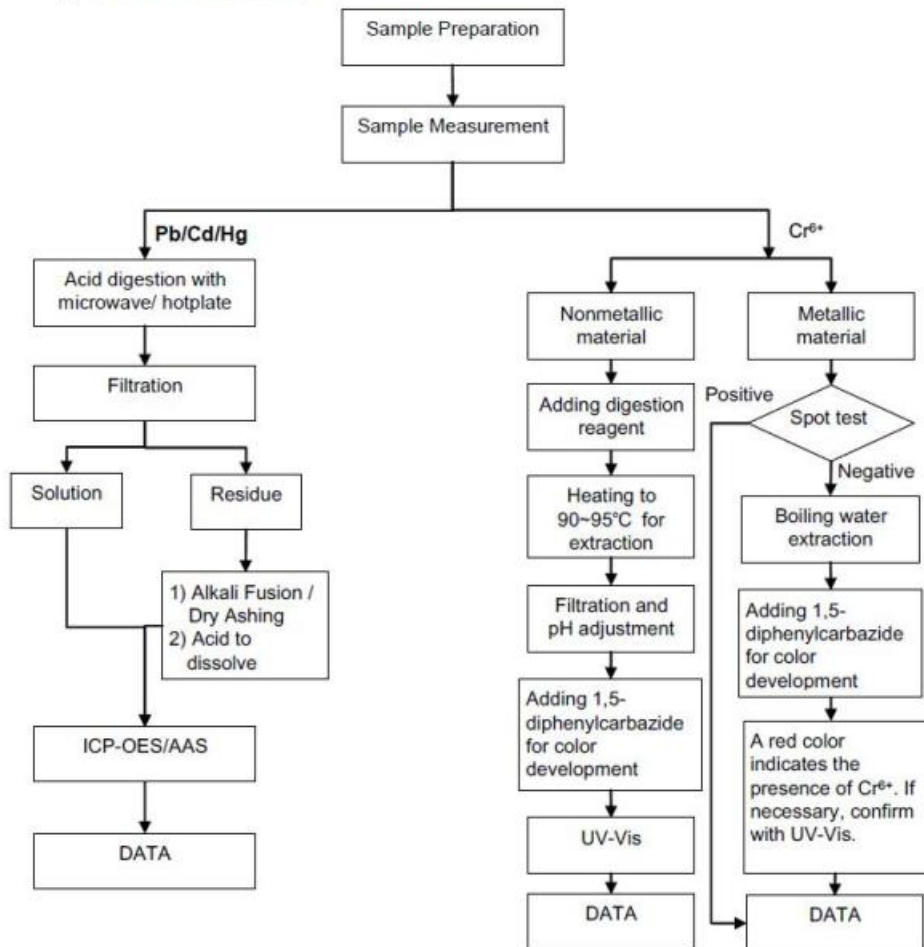
- (1) Spot-test:
 Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
 (The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
- Boiling-water-extraction:
 Negative = Absence of CrVI coating
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
 Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso
- 2) Name of the person in charge of testing: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).



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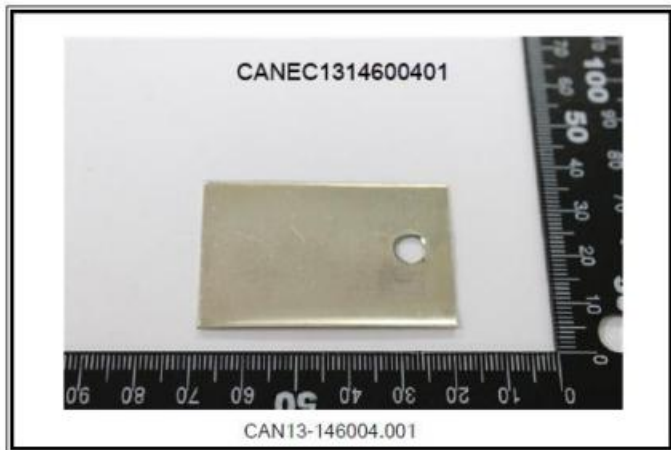
Test Report

No. CANEC1314600401

Date: 22 Sep 2013

Page 4 of 4

Sample photo:



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Test Report

No. CANEC1314600403

Date: 22 Sep 2013

Page 1 of 4

SUPERIOR TECHNOLOGY (SHENZHEN) LIMITED

JIANGBIAN MINOR CONTAMINATION INDUSTRIAL AREA SONGGANG TOWN BAOAN DISTRICT SHENZHEN GUANGDONG

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

SGS Job No. : CP13-049485 - SZ
 Date of Sample Received : 17 Sep 2013
 Testing Period : 17 Sep 2013 - 22 Sep 2013
 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).

Signed for and on behalf of
 SGS-CSTC Ltd.



Alkene_Liang
 Approved Signatory

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Test Report

No. CANEC1314600403

Date: 22 Sep 2013

Page 2 of 4

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-146004.003	Silvery plated metal sheet

Remarks :

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

Elementary Analysis

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 spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Unit	MDL	003
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	4
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	◇	Negative

Notes :

(1)◇Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

◇Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

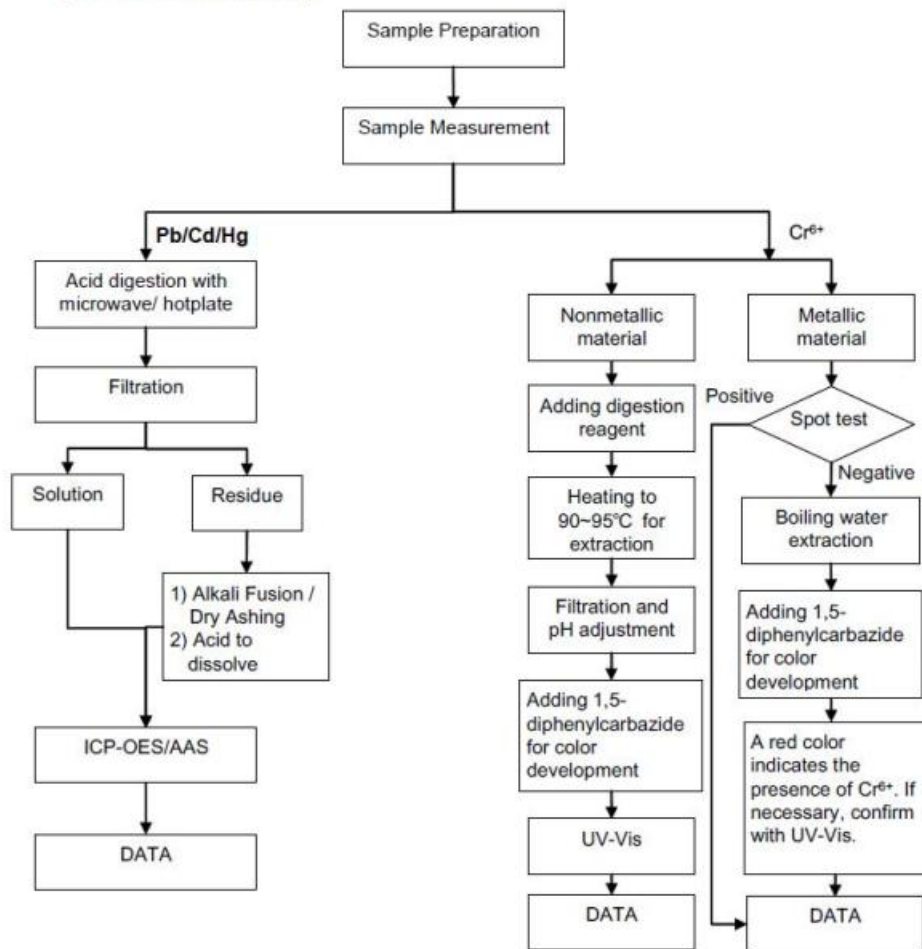
Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso
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- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).



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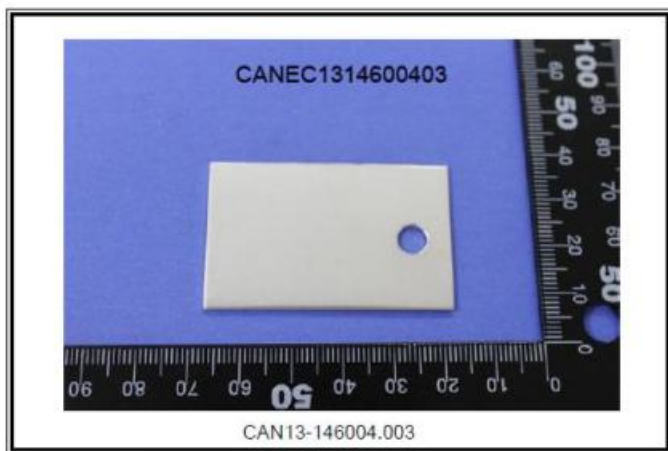
Test Report

No. CANEC1314600403

Date: 22 Sep 2013

Page 4 of 4

Sample photo:



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*** End of Report ***

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測試報告 Test Report

號碼(No.) : CE/2013/B2055

日期(Date) : 2013/11/20

頁數(Page): 1 of 4

建嘉順五金股份有限公司

SUNNY & HOPE HARDWARE CO., LTD.

桃園縣蘆竹鄉海山路一段2巷13號

NO. 13, LANE 2, SEC. 1, HI-SHAND RD., LU CHU HSIAN, TAOYUAN HSIEN, TAIWAN



以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : 建嘉順五金股份有限公司 (SUNNY & HOPE HARDWARE CO., LTD.)

樣品名稱(Sample Description) : FREE CUTTING BRASS BAR (快削黃銅棒)

樣品型號(Style/Item No.) : C3602

收件日期(Sample Receiving Date) : 2013/11/13

測試期間(Testing Period) : 2013/11/13 TO 2013/11/20

測試需求(Test Requested) : 依據客戶要求, 參考RoHS 2011/65/EU Annex II 指令進行鎘, 鉛, 汞, 六價鉻測試。
(As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample.)

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


Nicole Chien, Supervisor
Signed for and on Behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

測試報告

Test Report

號碼(No.): CE/2013/B2055

日期(Date): 2013/11/20

頁數(Page): 2 of 4

建嘉順五金股份有限公司

SUNNY & HOPE HARDWARE CO., LTD.

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NO. 13, LANE 2, SEC. 1, HI-SHAND RD., LU CHU HSIAN, TAOYUAN HSIEN, TAIWAN



測試結果(Test Results)

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

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	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	21
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	30600
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)	**	參考IEC 62321: 2008方法, 以沸水萃取法檢測。 / With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	Negative

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. ** = Qualitative analysis (No Unit) 定性分析(無單位)
5. # = a. Positive means the presence of CrVI on the tested areas
(Positive表示測試區域偵測到六價鉻)
b. Negative means the absence of CrVI on the tested areas
(Negative表示測試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas. / 該溶液濃度 $\geq$ 0.02 mg/kg with 50 cm² (tested areas)

測試報告

Test Report

號碼(No.): CE/2013/B2055

日期(Date): 2013/11/20

頁數(Page): 3 of 4

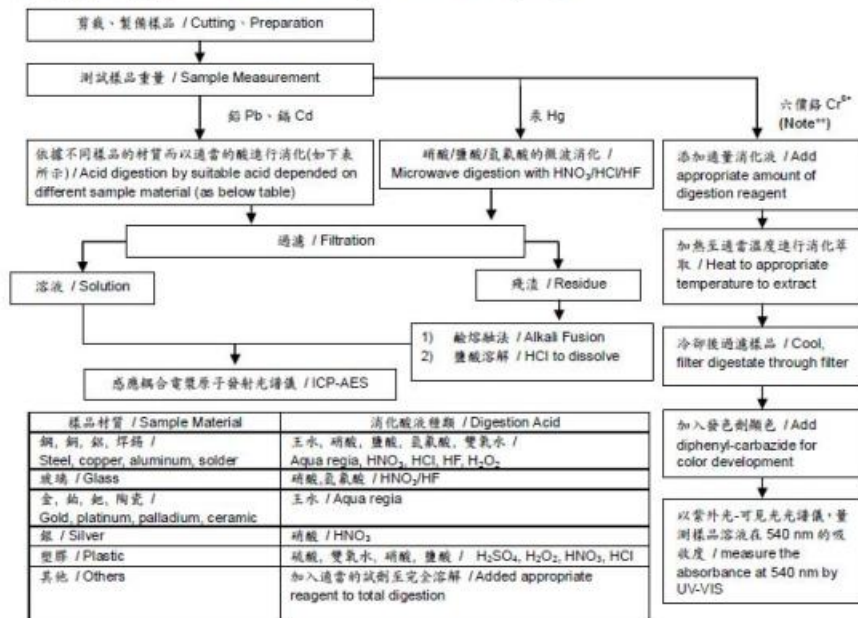
建嘉順五金股份有限公司

SUNNY & HOPE HARDWARE CO., LTD.

桃園縣蘆竹鄉海山路一段2巷13號

NO. 13, LANE 2, SEC. 1, H1-SHAND RD., LU CHU HSIAN, TAOYUAN HSIEN, TAIWAN

- 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)
- 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人：張學興 / Name of the person in charge of measurement: Troy Chang



Note**: (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，加熱至沸騰萃取。 / For metallic material, add pure water and heat to boiling.

測試報告 Test Report

號碼(No.) : CE/2013/B2055

日期(Date) : 2013/11/20

頁數(Page): 4 of 4

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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/2013/B2055



** 報告結尾 (End of Report) **

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測試報告

Test Report

號碼(No.) : CE/2013/12563 日期(Date) : 2013/01/17 頁數(Page) : 1 of 8

源豪興企業有限公司

JING-HAO-HSING CO., LTD.

新北市三重區中正北路193巷35弄1號

1F., NO. 1, ALLEY 35, LANE 193, JHONGJHENG N. RD., SANCHONG DISTRICT, NEW TAIPEI CITY 241,
TAIWAN (R. O. C.)



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : Ni (鎳)

收件日期(Sample Receiving Date) : 2013/01/10

測試期間(Testing Period) : 2013/01/10 TO 2013/01/17

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試報告

Test Report

號碼(No.) : CE/2013/12563 日期(Date) : 2013/01/17 頁數(Page) : 2 of 8

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新北市三重區中正北路193巷35弄1號

1F., NO. 1, ALLEY 35, LANE 193, JHONGJHENG N. RD., SANCHONG DISTRICT, NEW TAIPEI CITY 241, TAIWAN (R. O. C.)



測試結果(Test Results)

測試部位(PART NAME)No.1 : 綠色液體 (GREEN LIQUID)

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	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測。 / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考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 (銨) / PFOA (CAS No.: 335-67-1)	mg/kg	參考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

Test Report

號碼(No.): CE/2013/12563 日期(Date): 2013/01/17 頁數(Page): 3 of 8

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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
六溴環十二烷 / Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	參考US EPA 3540C方法, 以氣相層析/質譜 儀檢測。 / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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)

PFOS參考資訊(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 1µg/m².)

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測試報告

Test Report

號碼(No.): CE/2013/12563 日期(Date): 2013/01/17 頁數(Page): 4 of 8

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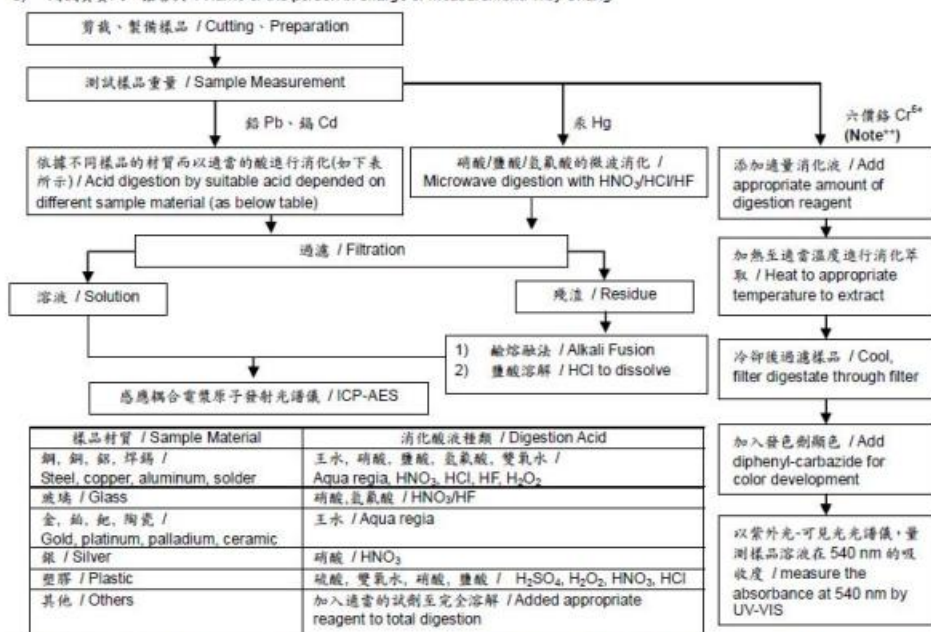
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張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



Note**: (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，加熱至沸騰萃取。 / For metallic material, add pure water and heat to boiling.

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測試報告

Test Report

號碼(No.): CE/2013/12563 日期(Date): 2013/01/17 頁數(Page): 5 of 8

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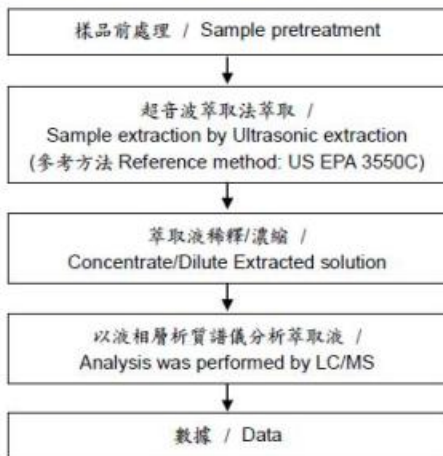
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全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang



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Test Report

號碼(No.) : CE/2013/12563 日期(Date) : 2013/01/17 頁數(Page) : 6 of 8

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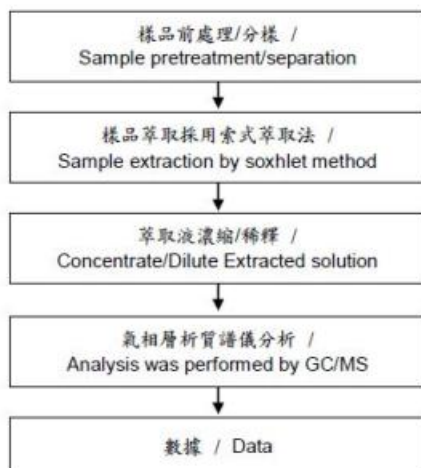
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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Test Report

號碼(No.): CE/2013/12563 日期(Date): 2013/01/17 頁數(Page): 7 of 8

潔豪興企業有限公司

JING-HAO-HSING CO., LTD.

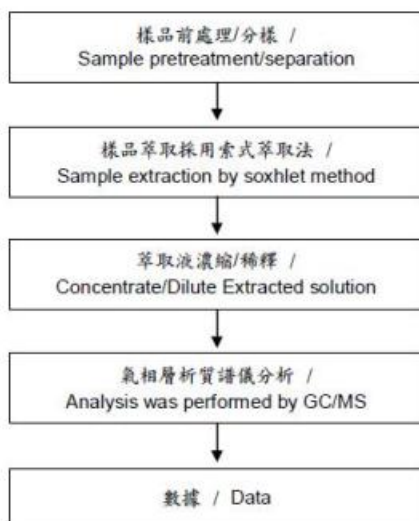
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1F., NO. 1, ALLEY 35, LANE 193, JHONGJHENG N. RD., SANCHONG DISTRICT, NEW TAIPEI CITY 241, TAIWAN (R. O. C.)



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

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告

Test Report

號碼(No.) : CE/2013/12563 日期(Date) : 2013/01/17 頁數(Page) : 8 of 8

源豪興企業有限公司

JING-HAO-HSING CO., LTD.

新北市三重區中正北路193巷35弄1號

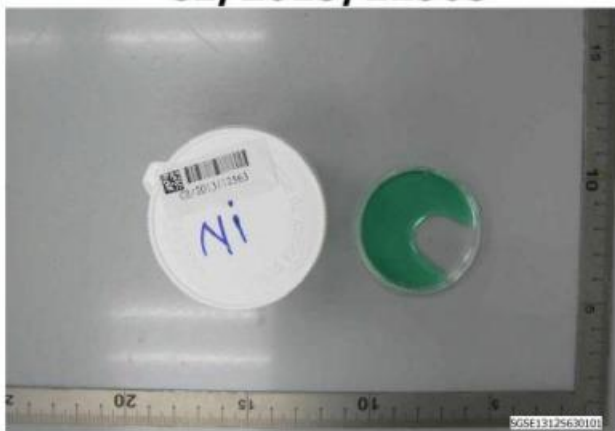
1F., NO. 1, ALLEY 35, LANE 193, JHONGJHENG N. RD., SANCHONG DISTRICT, NEW TAIPEI CITY 241, TAIWAN (R. O. C.)



* 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/2013/12563



** 報告結尾 (End of Report) **

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