



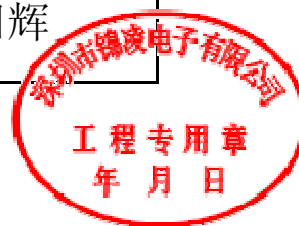
深 圳 市 ( 錦 凌 ) 电 子 有 限 公 司  
SHENZHEN(JILN)ELECTRONIC CO.,LTD

# 承 认 书

## SPECIFICATILNFOR APPROVAL

客户 (CUSTOMER): \_\_\_\_\_  
品名 (DESCRIPTION): 2.0DC3-NPIN  
料号 (PARTNO): \_\_\_\_\_  
日期 (DATE): \_\_\_\_\_  
编号 (NO.): \_\_\_\_\_

工程部 ENGINEER DEPT	品管部 QA DEPT	审核 APPROVED BY
王志钢	骆爱玲	欧阳辉



贵公司承认后, 请回签一份给厂司. 谢谢!

KINDLY RETURN ONE COPY OF THE SPECIFICATION AFTER APPROVAL

核对 CHECKED BY	确认 APPROVED BY

ADD: 深圳市宝安区西乡镇九围洲石路旁骏亿工业园B栋四楼

TEL: 0755-27483253 27483275

FAX: 0755-29975588

HTTP: [www.szjiln.com](http://www.szjiln.com)

E-MAIL: Jin ling dz@jin ling dz.com

# 目录

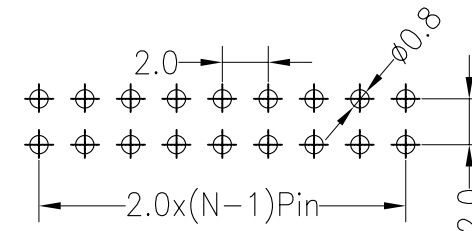
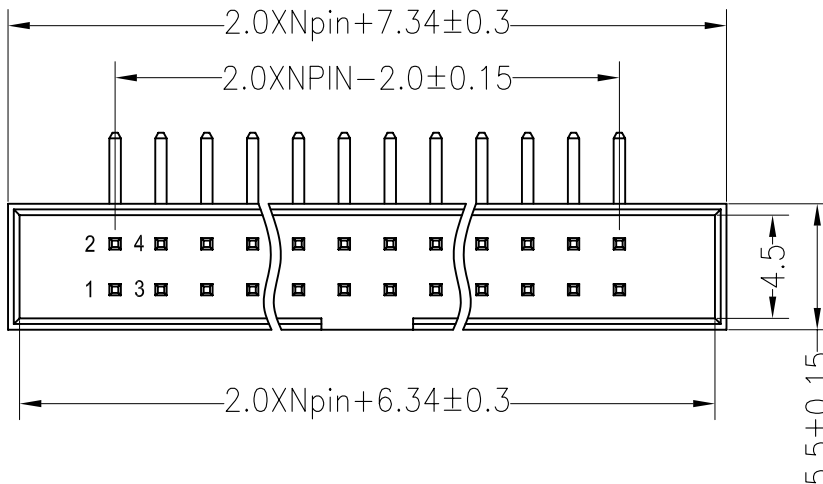
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# SPECIFICATIONS

Rated Current:1.5AMP  
Contact Resistance:20mΩ Max  
Withstand Voltage:400V AC/DC  
Insulation Resistance:800MΩ Min  
Operation Temperature:-40°c to +105°c

Contact Material:Brass  
Contact Plating:Au or Sn Over Ni  
Insulator Material:Polyester(UL94V-0)  
Standard: PA6T  
Max.Processing Temp: 230°C for 30-60 seconds  
(260°C for 10 seconds)

Recommended P.C.B Layout(Top Side)  
(PCB BOARD TOLERANCE±0.05)



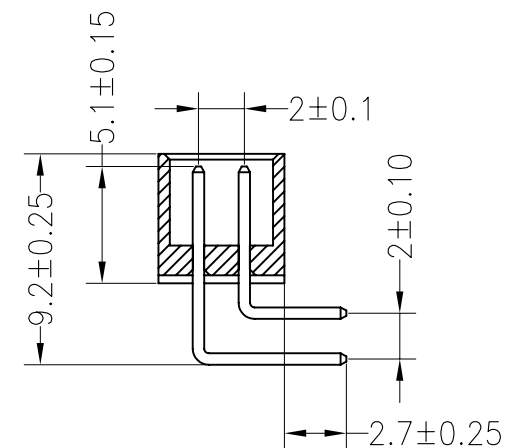
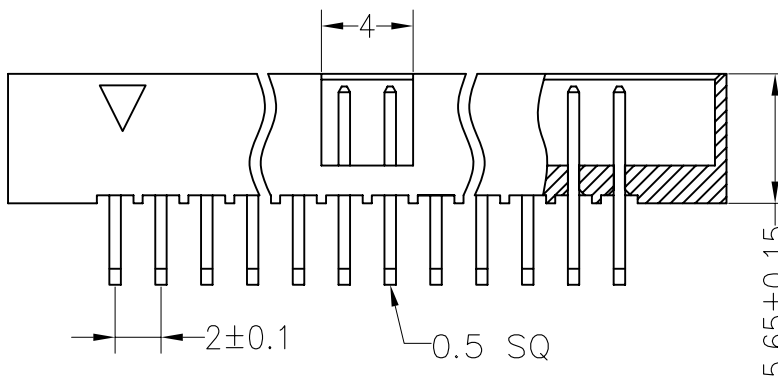
## Ordering Information

3220- XX R XX X B K00 01

No.of  
Pins  
Per Row  
6--64

Contact Plating  
G0:Gold Flash  
G2:3U" Gold  
G2:5U" Gold  
G3:10U" Gold  
G4:15U" Gold  
G5:30U" Gold  
S0:Gold Flash/Tin

Insulator Material  
Option  
A=BK-PBT  
B=BK-PA66  
C=BK-PA6T  
D=BK-PA46  
F=BK-LCP



OPERATION

X.X ±0.30  
X.XX ±0.20  
X.XXX ±0.10  
Angle ±3°  
DIM TOL

DRAW

CHECK

APPROVE

YiYuSheng

12.07.26

SCALE

FIT

UNIT

SIZE

SHEET

PROJ.

mm

A4

1/1

◆

**JiLN**® 深圳市锦凌电子有限公司  
SHENZHEN JINLING ELECTRONIC CO.,LTD  
Tel: 86-755-2997-5806/5802 Fax: 86-755-2997-5992

PART NO. 3220-XXRXXB0001  
TITLE: 2.0Box Header Npin H5.65  
L=10.5/14.5 90°

A0 2012.07.26 NEW DRAWING

REV DATE MODIFICATION DESCRIPTION

CHANGE

# 材质证明表

供应商:深圳市宝时达塑胶制品有限公司

日期:2010年 3月25 日

Material name	Element name composition	Element%(by weight)	ICP Test data(ppm)						Test date
部件材质名	构成之元素名称	元素百分比(以重量计)	Cd	Pb	Hg	Cr6+	PBBS	PBDES	(检测日期)
PA6T	PA6T	67%	此部分请参考所提供的SGS报告						2007年5月18日
	玻璃纤维	30%							
	助剂	3%							
*表格列数不够可按格式自行增加附页									

制表人:华晓茹

# 佛山市三环铜业有限公司产品品质保证书

本保证书希妥善保管, 如对我公司的产品品质有异议, 持保证书在一个  
个月内与我公司联系, 本公司将竭诚为您服务.

客户名称      科   特   ※

结算单号      QBB-518   ※

发货日期      2011-4-17※

产品批号      A001   ※

产品名称      黄铜棒   ※

产品牌号      h65   ※

产品规格      0.4\*15.5

产品状态      Y   ※

产品数量      25件   ※

产品重量      1058.58 ※

质保部长      李娜   ※

检验员:      邓招秀   ※

执行标准:      GB/T2059-2000

化学成分(%):

铜Cu	65.09	锌Zn	余量	铁Fe	0.003
锡Sn		磷P	/	铅Pb	0.003
锑Sb	/	硅Si	/	铋Bi	/
镍Ni	/	锰Mn	/	铝Al	/
银Ag	—/—	砷As	/	杂项总合	〈0.02

物理性能

抗拉强度N/mm2	639.1	延伸率%	/
杯突值	/	维氏硬度HV	182

表面质量与公差(mm):

厚度公差: ±0.005      宽度公差:      表面质量: 合格   OK

填表员:      麦建群      填表日期: 2011-4-17

## Test Report

No. CANEC1400258801

Date: 14 Jan 2014

Page 1 of 8

SHENZHEN BAO SHIDA PLASTIC PRODUCTS CO.,LTD.

NO.3 JIANG BIAN INDUSTRY PARK CENTRE ROAD,SONGGANG TOWN,BAOAN DISTRICT,SHENZHEN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PA6T

SGS Job No. : CP14-000376 - SZ

Date of Sample Received : 07 Jan 2014

Testing Period : 07 Jan 2014 - 13 Jan 2014

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, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) 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.



Yan Lee

Approved Signatory



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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch/Scientech Center Chemical Laboratory

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn  
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

# Test Report

No. CANEC1400258801

Date: 14 Jan 2014

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Test Results :

## Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN14-002588.001	Black 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 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 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
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	-	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

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Date: 14 Jan 2014

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<u>Test Item(s)</u>	<u>Limit</u>	<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
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.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%(W/W)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(W/W)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(W/W)	0.003	ND



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## Test Report

No. CANEC1400258801

Date: 14 Jan 2014

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### 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.

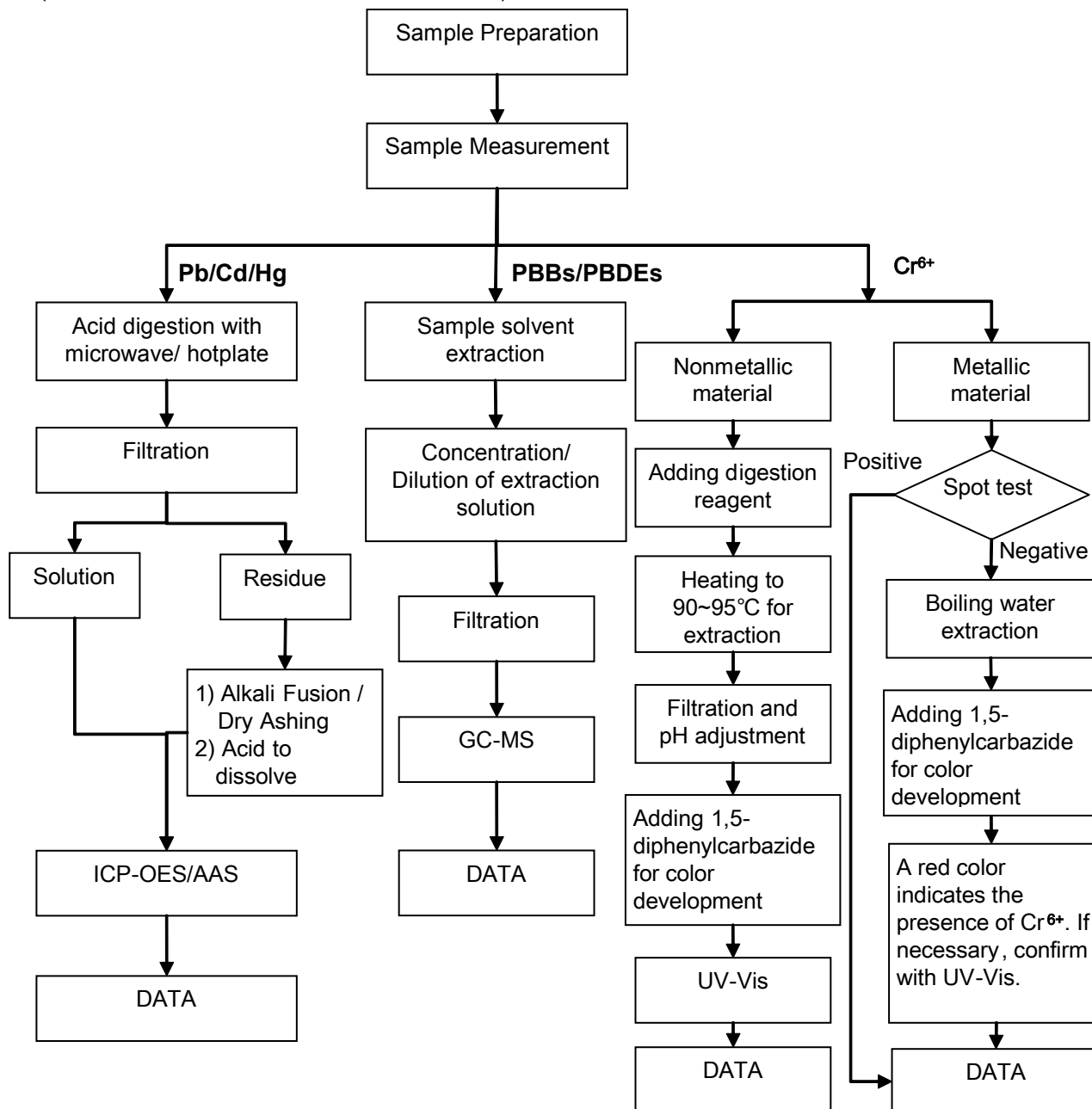


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### ATTACHMENTS

#### RoHS Testing Flow Chart

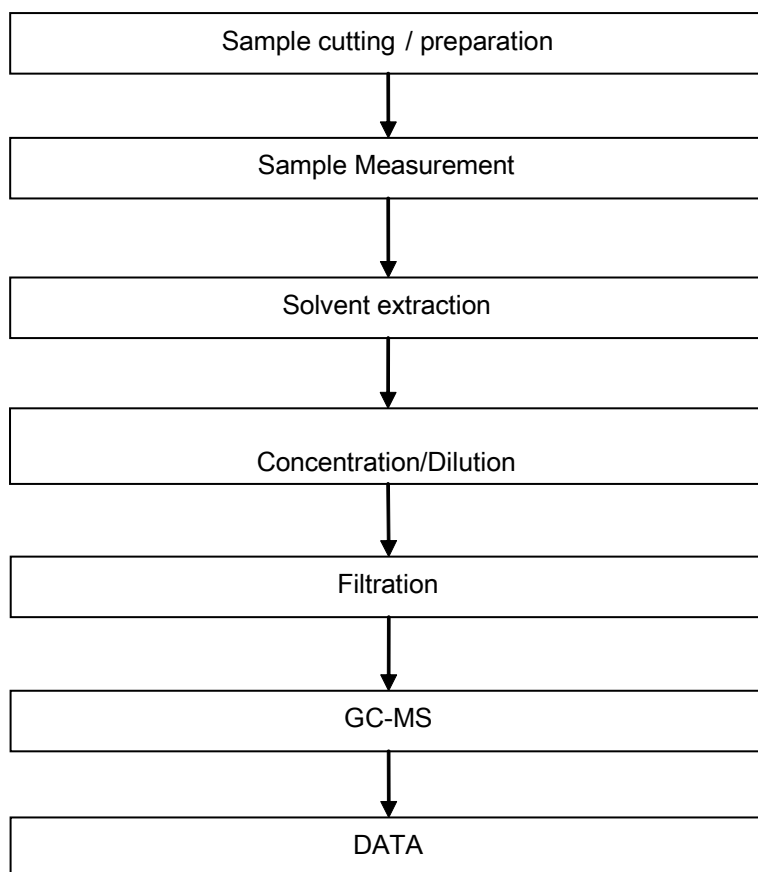
- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



## ATTACHMENTS

### HBCDD Testing Flow Chart

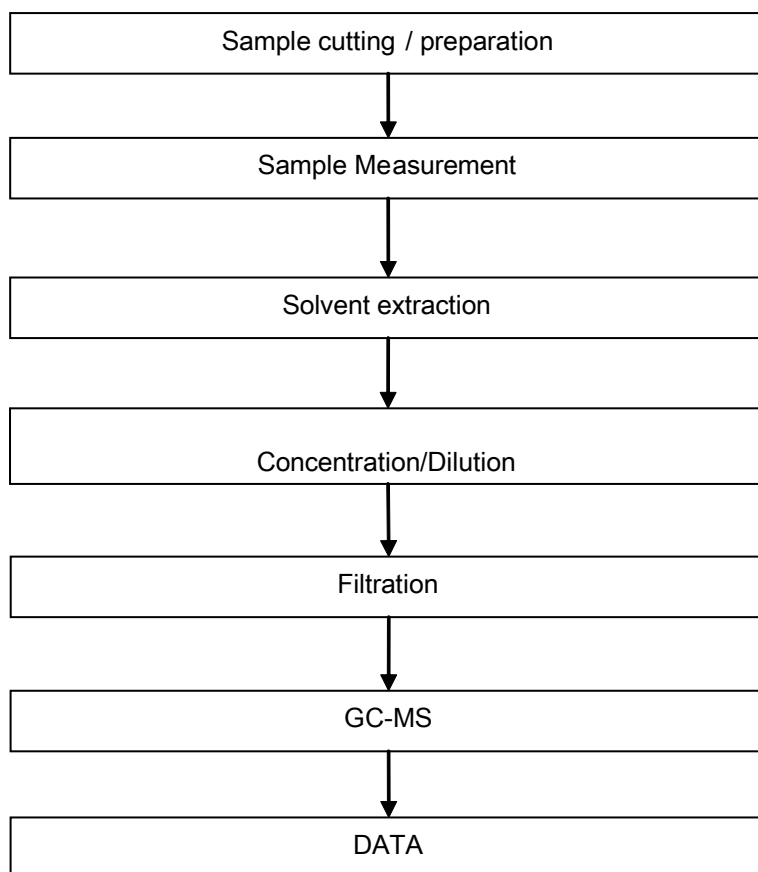
- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Yolanda Wei



## 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



## Test Report

No. CANEC1400258801

Date: 14 Jan 2014

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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*



# Test Report

No. CANEC1400105105

Date: 09 Jan 2014

Page 1 of 9

FOSHAN DEXIANGYUAN MATERIALS CO.,LTD

1/F-2/F,20 EAST OF THE FOSHANDAQIAO TOLL STATION NORTHCHANCHENG,FOSHAN CITY  
CHINA

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

SGS Job No. : CP14-000225 - GZ

Date of Sample Received : 03 Jan 2014

Testing Period : 03 Jan 2014 - 09 Jan 2014

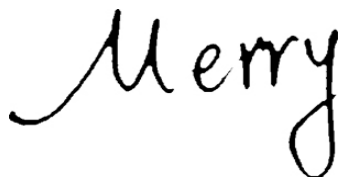
Test Requested : Selected test(s) as requested by client.

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, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) 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.



Merry Lv  
Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch/Scientech Park Chemical Laboratory

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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

## Test Report

No. CANEC1400105105

Date: 09 Jan 2014

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Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN14-001051.003	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 :
- (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.
  - (5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	003
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	20
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative
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

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Date: 09 Jan 2014

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</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
Decabromodiphenyl ether	-	mg/kg	5	ND

### Notes :

(1) The maximum permissible limit is quoted from 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 cm<sup>2</sup> 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.

### Hexabromocyclododecane (HBCDD)

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

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
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.

### PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method : With reference to US EPA Method 3550C: 2007, analysis was performed by HPLC-MS.



SGS-CTC Standards Technical Services Co., Ltd.  
Guangzhou Branch/Testing Center/Chemical Laboratory

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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



## Test Report

No. CANEC1400105105

Date: 09 Jan 2014

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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctane Sulfonates (PFOS) and related Acid, Metal Salt and Amide	mg/kg	10	ND
Perfluorooctanoic Acid (PFOA)	mg/kg	10	ND

### Notes :

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:

(1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.

(2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1µg /m<sup>2</sup> of the coated material.

## Phthalate

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

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Dibutyl Phthalate (DBP)	84-74-2	%(W/W)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(W/W)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(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.

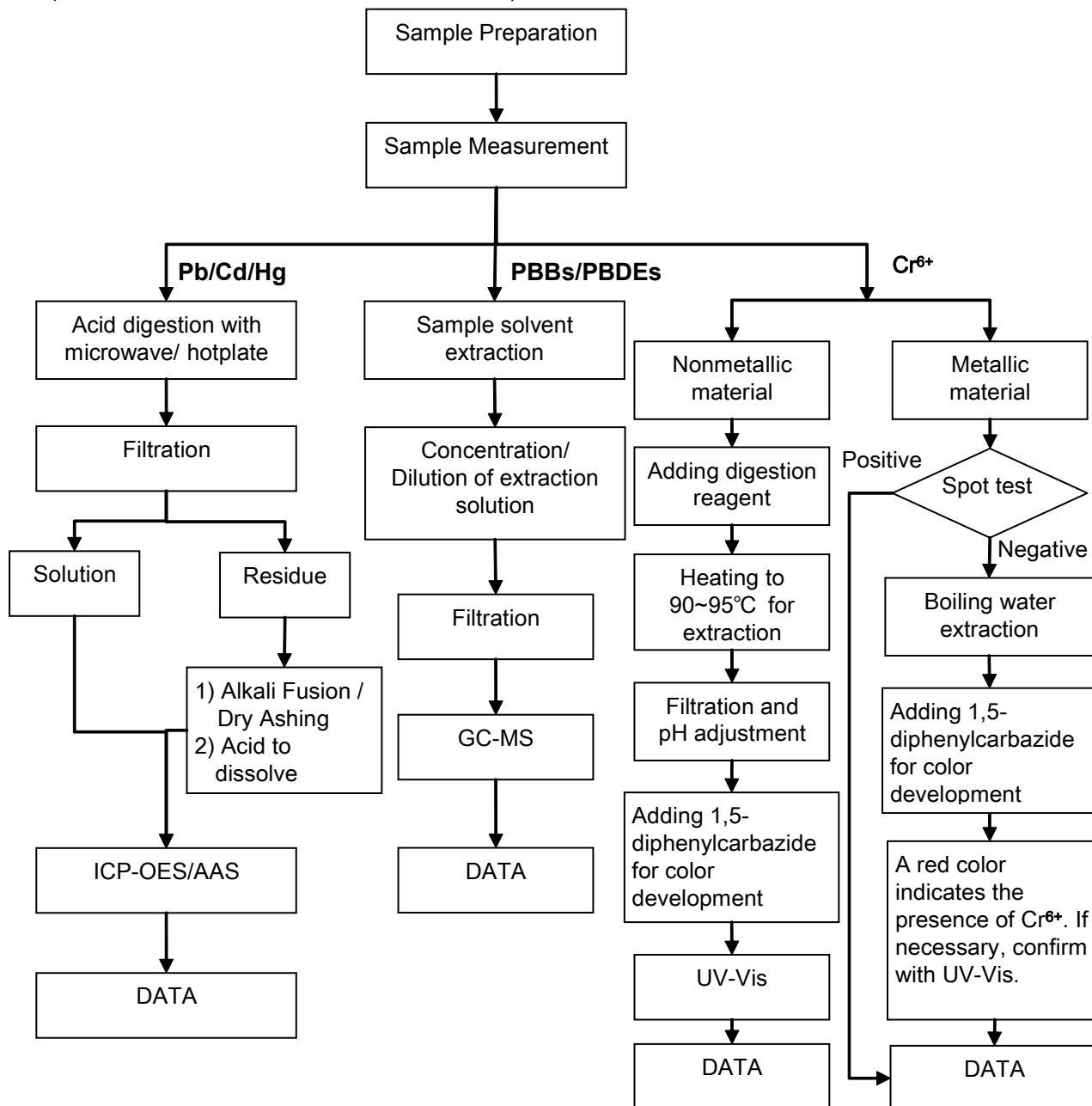


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### ATTACHMENTS

#### RoHS Testing Flow Chart

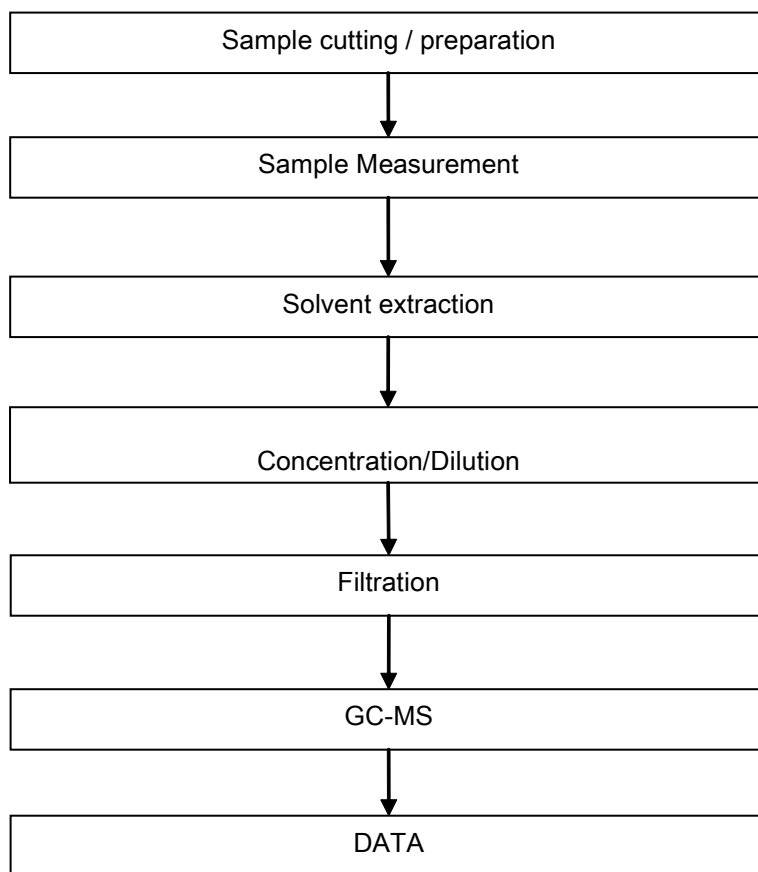
- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



### 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

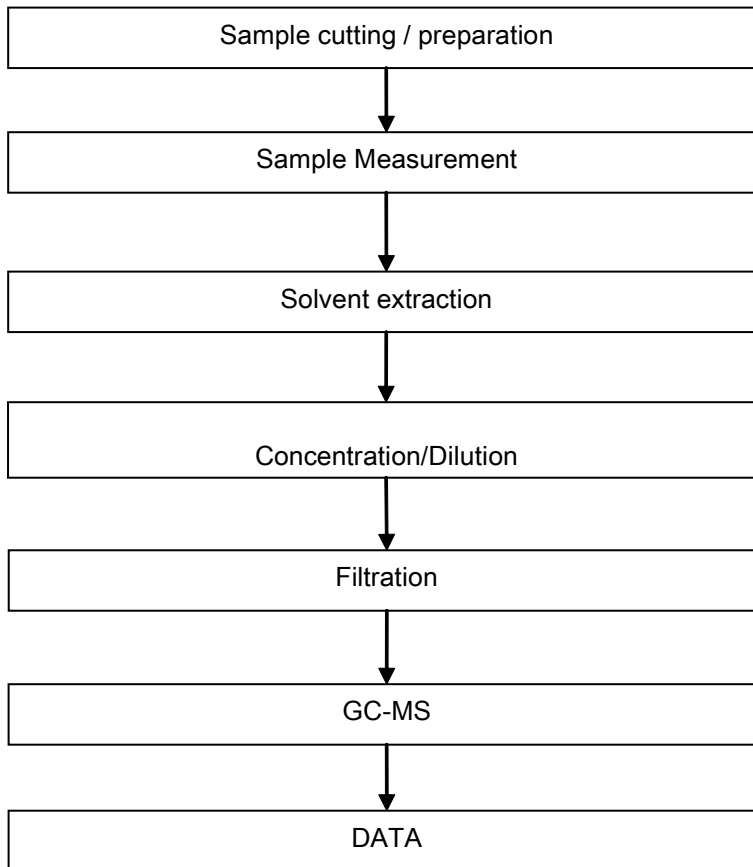


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## ATTACHMENTS

### HBCDD Testing Flow Chart

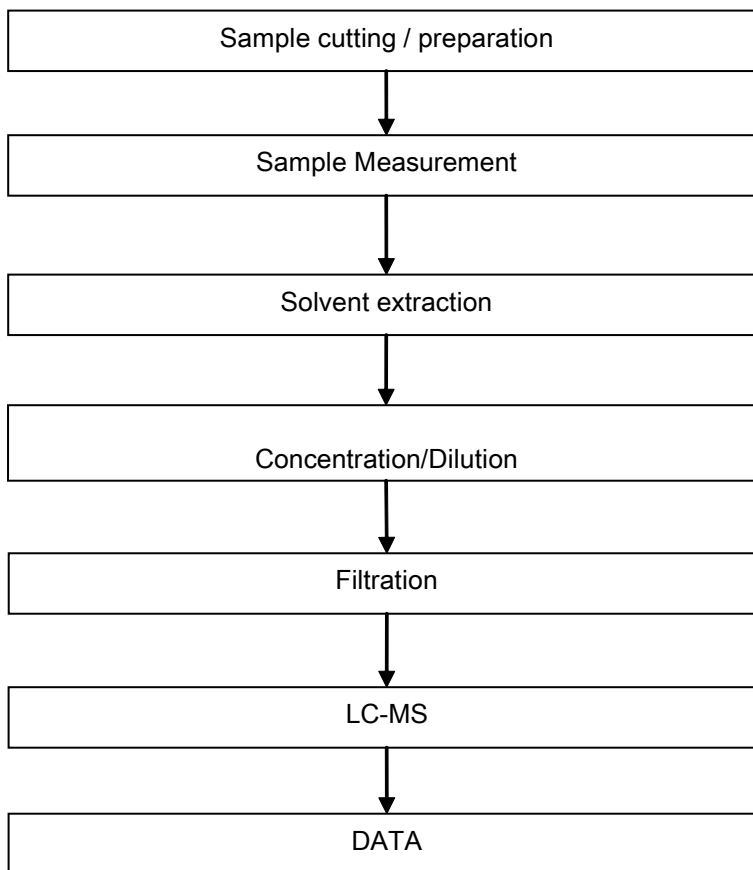
- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Yolanda Wei



## ATTACHMENTS

### PFOA / PFOS Testing Flow Chart

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





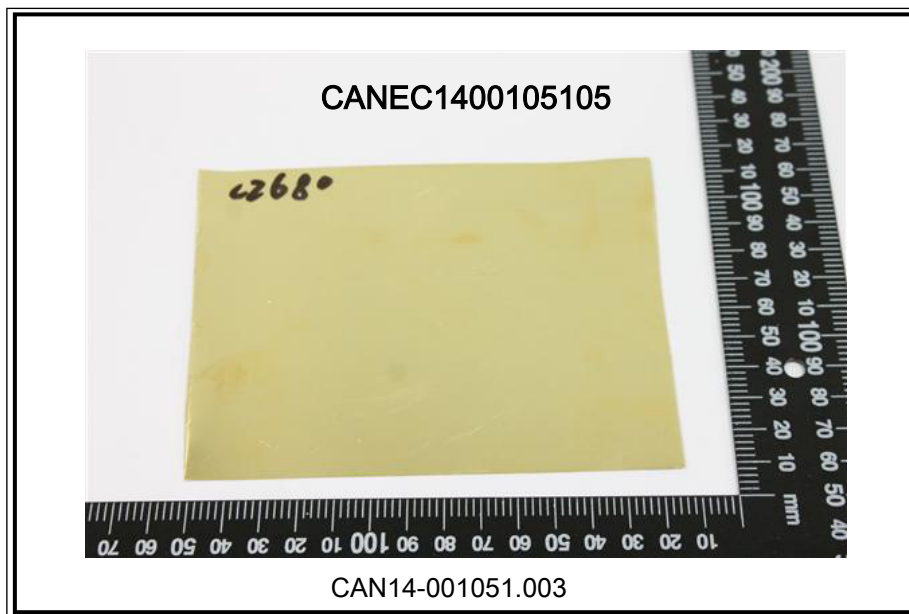
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Sample photo:



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## Test Report

No. CANML1406818301

Date: 14 May 2014

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SHENZHEN HONGTAI INDUSTRIAL CO., LTD.FLAT

SHENZHEN BAOAN DISTRICT SHAJINGZHEN GONGHECUN SIXTH INDUSTRIAL PARK AREA A  
28 2 3 FLOOR OF WORKSHOP

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

SGS Job No. : GZIN1405008834PC - GZ  
Date of Sample Received : 08 May 2014  
Testing Period : 08 May 2014 - 14 May 2014  
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.

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, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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## Test Report

No. CANML1406818301

Date: 14 May 2014

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Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN14-068183.001	Silvery/golden 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 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 spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	13
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 cm<sup>2</sup> 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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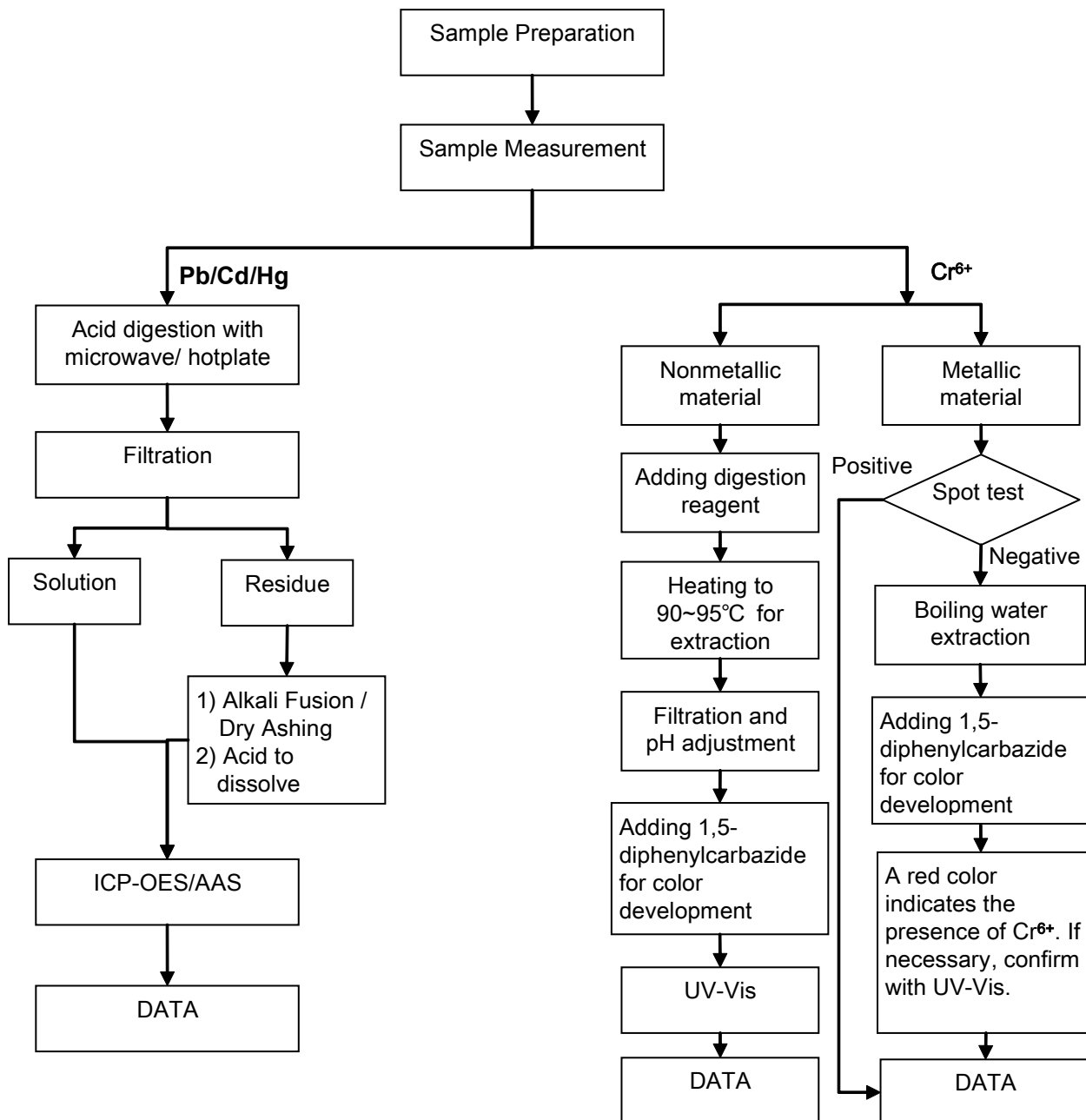
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### ATTACHMENTS

#### 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 (Cr<sup>6+</sup> test method excluded).



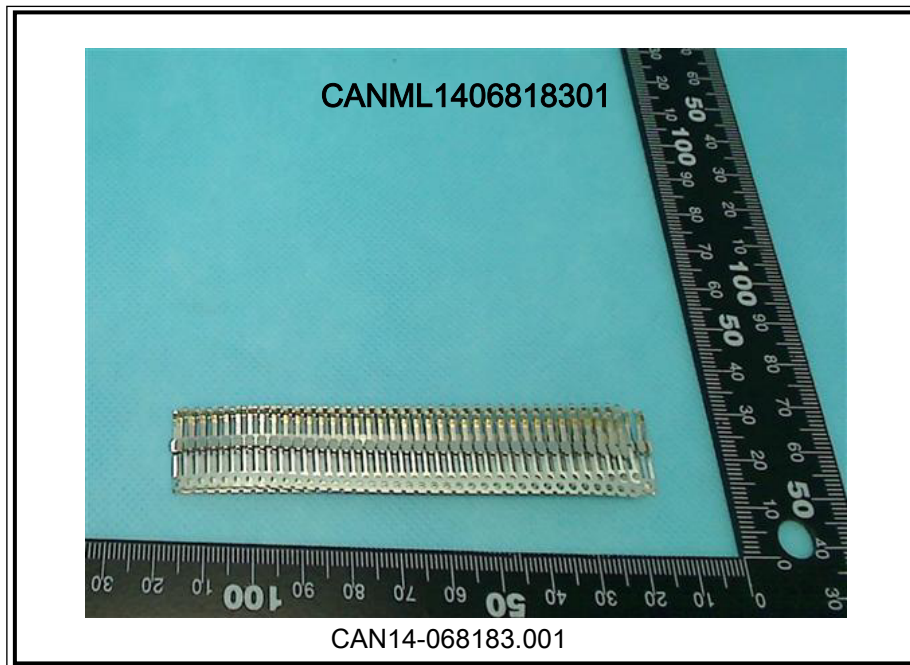
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Sample photo:



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\*\*\* End of Report \*\*\*

# 物质安全资料表

## 一、物品与厂商资料

物品名称: (PA6T) 聚对苯二甲酸己二酰胺
物品编号:
制造商或供货商名称: 深圳市宝时达塑胶制品有限公司 制造商或供货商地址: 深圳市宝安区松岗江边工业区
咨询者姓名: 胡先生 联络电话: 0755-29898940 传真: 0755-22700996

## 二、成分辨识资料

中英文名称: PA6T 聚对苯二甲酸己二酰胺				
1	化学品名称	分子式	CAS 号	含量
2	PA6T 树脂	$(C_{14}H_{18}N_2O_2)_n$	24938-70-3	64%
3	玻璃纤维	SiO <sub>2</sub>	65997-17-3	33%
4	助剂	N.A	N.A	3%

## 三、危害辨识数据

最重要危害效应	进入人体之途径: <input type="checkbox"/> 吞食 <input type="checkbox"/> 皮肤接触 <input type="checkbox"/> 吸入 健康危害效应: 急性: 无 慢性: 无 健康危害效应
	<ul style="list-style-type: none"><li>• 眼睛: 没有有效数据。</li><li>• 皮肤: 熔融时接触会烫伤。</li><li>• 吸入: 料粒不大可能吸入。</li><li>• 食入: 没有显著有害效应。</li></ul>

## 四、急救措施

不同暴露途径之急救方法:
吸入: 若吸入熔融树脂产生的气体较多时, 若需立刻送医治疗。 皮肤接触: 若接触到熔胶, 用清水冲洗, 若有不适, 立刻送医治疗。 眼睛接触: 若眼睛接触到塑胶粉末, 用水冲洗十五分钟以上如需要, 到医院治疗。 食入: 催吐, 以清水漱口。

## 五、灭火措施

灭火材料:水、泡沫、干粉
灭火时可能遭遇之特殊危害: 无。
特殊灭火程序: 移除可燃物。
灭火者访护: 消防人员使用供氧式呼吸防护具。

## 六、泄漏处理方法

注意事项 : 若塑料粒或塑料粉末残留于地面上, 立即清扫处理, 以防人员滑倒。
清理方法: 回收或弃置 (依当地环保单位废弃物管理办法, 在合法的弃置掩埋)。

## 七、安全处置与储存方法

处置: 工作场所有《严禁烟火》标志, 不能燃烧。
储存: 封包存放在阴凉处所, 避免直射阳光及雨淋, 储存处严禁烟火。

## 八、暴露预防措施

容许湿度: (TLV) 未定
通风设备: 排除粉, 烟及气体时使用。
个人防护:
眼部: 使用安全眼镜或护目镜。
呼吸: 使用含有中、低有机蒸气滤罐之面具。
手部: 接触熔胶时使用皮手套。
防护衣服设备: 1.安全鞋.2.工作区须有紧急冲淋器。
个人卫生: 1.工作后速脱掉污染衣物,且须告知洗衣人员污染危害性。2.工作场所严禁吸烟或饮食。3.处理本物质后须及时洗手。4.维持作业场所清洁。

## 九、物理及化学性质

刺激性: 分解后之塑料所产生的烟及蒸气会刺激眼睛。
---------------------------

## 十、安定性及反应性

安定性 : 安定
特殊状况下可能之危害反应: 会发生放热的聚合反应。避免接触热、光、空气、治疗剂, 密闭容器可能会爆裂。
应避免之状况: 避免热、火种及着火物质。若曝露于热源, 容器可能破裂或爆破。
应避免之物质: 金属盐、可燃物质、金属、氧化剂、卤素、金属氧化物。
危害分解物 : 碳氧化合物之有毒或有害之气体。

## 十一、毒性资料

急毒性：

- 吸入：用火燃烧产生气体会引起呼吸道之刺激与咳嗽。曝露在高浓度的气体时会导致反胃、刺痛、与口腔和喉咙干燥，困倦、头痛、眩晕、失去知觉、呼吸麻痹与死亡，另外也会窒息。
- 食入：不大可能食入，但会造成口腔与喉咙的创伤。
- 皮肤：会引起瘙痒。
- 眼睛：燃烧产生的气体会引起刺激。

局部效应：没有有效数据。

致敏感性：没有有效数据。

慢毒性或长期毒性：

- 食入：没有有效数据。
- 吸入：没有有效数据。
- 皮肤：没有有效数据。
- 眼睛：没有有效数据。

## 十二、生态资料

为防止被海洋生物及鸟类取食,严禁丢弃海洋或水域。

## 十三、废弃物处理及处置

1. 参考相关法规处理。
2. 依照仓储条件储存待处理的废弃物。
3. 可采用特定的焚化或卫生掩埋法处理。

## 十四、运送资料

未分类

## 十五、适用法规

标示:

危害警告讯息: 难燃。

危害防范措施:

1. 置于阴凉且通风良好处。
2. 远离火源。
3. 配戴护目镜/防毒面具。
4. 使用化学干粉, 泡沫及水雾。

使用法规:

劳工安全卫生设备规则

危险物与有害物能辨识规则

道路交通安全规则

事业废弃物储存清除处理方法及措施标准

防护衣服设备: 1.安全鞋.2.工作区须有紧急冲淋器。

个人卫生: 1.工作后速脱掉污染衣物,且须告知洗衣人员污染危害性。2.工作场所严禁吸烟或饮食。3.处理本物质后须及时洗手。4.维持作业场所清洁。

## 十六、其它数据

制窗体位	名称: 深圳市宝时达塑胶制品有限公司
	地址: 深圳市宝安区松岗江边工业区
	电话: 075527428839
制 表 人	胡先生
制表日期	2013 年 5 月 7 日



# 物質安全資料表

## 一、物品與廠商資料

物品名稱：黃銅帶材
物品編號：
供應商名稱、地址及電話：佛山市德祥源金屬材料有限公司 佛山市禪城區原大橋收費站東側 20 號一、二樓 0757-81820190
緊急聯絡電話/傳真電話： TEL: 0757-81820190/81820191

## 二、成分辨識資料

純物質：

中英文名稱：銅(Copper)
同義名稱：
化學文摘社登記號碼(CAS No.): 7440-50-8
危害物質成分(成分百分比)：

成分表：

物質名稱	含量	Cas No.	EINECS No. EINECS 登陸號
銅	64-68%	7440-50-8	231-159-6
鋅	余量	7440-66-6	231-175-3

## 三、危害辨識資料

最 重 要 危 害 效 應	健康危害效應： 眼睛、皮膚、吸入、食入在正常使用下安全。如接觸或吸入機械加工過程（如：打磨、切割等）中產生的粉末，可能引起眼睛、皮膚和呼吸系統刺激。
	環境影響： 无
	物理性及化學性危害：
	特殊危害：
主要症狀：	
物品危害分類：	





#### 四、急救措施

##### 不同暴露途径之急救方法：

- 吸入：立即移至通风良好处。如果呼吸停止，给与人工呼吸。如果呼吸困难，给与氧气。如果出现咳嗽和其他症状，就医。
- 皮膚接觸：立即用大量的水冲洗 15 分钟。如果症状未见好转，就医。
- 眼睛接觸：立即用大量的冲洗 15 分钟，时常提起眼睑。就医。
- 食入：如果患者有意识，催吐。如果患者无意识，切勿给入，就医。

##### 最重要症狀及危害效應：

##### 對急救人員之防護：

##### 對醫師之提示：

#### 五、滅火措施

適用滅火劑：水霧、化学干粉、二氧化碳、化学泡沫。

滅火時可能遭遇之特殊危害：

特殊滅火程序：

消防人員之特殊防護設備： 任何火灾中，消防人员请穿着自我给氧装置的全式消防服。

#### 六、洩漏處理方法

個人應注意事項：

環境注意事項：避免产生粉尘，提供通风。避免化学物质进入环境中。

清理方法：拾起/扫起该物质并置于合适的容器中。

#### 七、安全處置與儲存方法

處置：使用时，适当通风。减少粉尘产生和堆积。切勿接触眼睛、皮肤或衣物。避免食入和吸入

儲存： 储存于凉爽干燥处。储存于密闭容器中。

#### 八、暴露預防措施

工程控制：储存和使用该物质的场所需配备洗眼设备和安全淋浴。适当通风。

控制參數：





• 生物指標：

個人防護設備：

- 呼吸防護：如果发生过敏或者其他症状，使用合适的呼吸器或面罩。
- 手部防護：戴上合适的手套。
- 眼睛防護： 正常使用下无特殊要求
- 皮膚及身體防護： 正常使用下无特殊要求。

衛生措施：

## 九、物理及化學性質

物質狀態： 固体	形狀：
顏色： 黄色	氣味： 无
pH 值： 不适用	沸點/沸點範圍： 无可用数据
分解溫度：	閃火點： 不适用
	測試方法：
自燃溫度：	爆炸界限：
蒸氣壓： 不适用	蒸氣密度： 不适用
密度： 8.47g/cm3	溶解度： 936℃

## 十、安定性及反應性

安定性： 正常条件下稳定
特殊狀況下可能之危害反應：
應避免之狀況： 高温
應避免之物質： 强氧化剂,酸,碱
危害分解物：

## 十一、毒性資料

急毒性： 未被列入 NPT,IARC,或 OSHS 致癌物质
局部效應：
致敏感性：
慢毒性或長期毒性：
特殊效應：

## 十二、生態資料





可能之環境影響/環境流佈：无

### 十三、廢棄處置方法

廢棄處置方法： 废弃时,必须确定该物质是否属于危险废弃物.处置前应参阅国家和地方有关法规,以确保正确的废弃物归类.

### 十四、運送資料

國際運送規定： 该产品未被列为《国际般协危险品规则》；《国际海运危险货物规则》中的危险物质.

聯合國編號： 无

國內運送規定：


特殊運送方法及注意事項：

### 十五、法規資料

適用法規：	USA(TSCA):	listed 列入
	Canada(DSL)	listed 列入
	EINECS/ELINCS	listed 列入

### 十六、其他資料

參考文獻			
製表單位	名稱： 佛山市德祥源金属材料有限公司		
	地址/電話： 佛山市禅城区原大桥原收费站东侧 20 号一、二楼 0757-81820190		
製表人	職稱：	姓名(簽章)： 苏绰敏	
製表日期	2012-4-13		



三阶文件			
文件名称	镀金层 MSDS	版本/次	A/0
		生效日期	2011. 03. 01
文件编号	HLQI-QA-95	页码	1/2
整理：陈伟		审核：陈秀昌	核准：龙钦飞

一、成分辨别资料

危 害 性 成 分				
化学名称	含量%	化学文摘社登记	可容许暴露的界限	价值开始的界限
金	99%	1310-73-2	—	—
钴	1%	1769-12-1	—	—

二、危害辨别资料

进入人体之途径	■ 吞食      ■ 皮肤接触      ■ 吸入
健康危害效应	急性：无
	慢性：无
健康危害效应	
急性：吸入：在高温加工过程中，吸入此电镀产品逸出之气体会危害到呼吸器官。	
眼睛：无刺激。	
皮肤：高温熔融时会对皮肤造成烫伤。	
吞食：表现症状为消化不良	
慢性：——	

三、急救措施

急救方法
吸入：若吸入此电镀产品在高温加工过程中逸出之气体，将患者移到通风处，若有不适，立即就医。
皮肤接触：若接触到此电镀产品，以清水冲洗。
吞食：催吐，以清水漱口。

四、灭火措施：无（此电镀产品不会引发火灾。）

五、泄漏之紧急措施

注意事项：若此电镀产品残留于地上，立即清扫处理，以防人员跌倒。
清理方法：回收或报废。（依当地环保单位废弃物管理办法进行处理。）

六、处理与储存

处理：1、做好整理整顿以免混料，堆积。
2、已开封但未用完之料包，须封好避免与空气接触以免氧化。
3、作业温度不宜高于 1063℃ 摄氏度，人员须佩戴带防护设施，避免吸入蒸气、粉尘。
储存：存放在阴凉场所，避免阳光直射及雨淋。

七、曝露预防措施

个人防护：穿工作服。
眼部：——
呼吸：——
手部：接触产品时需使用手套或指套
个人卫生：1、工作场所禁止饮食。
2、处理本物质后须彻底洗手。
3、维持作业场所清洁。

三阶文件			
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整理：陈伟		审核：陈秀昌	核准：龙钦飞

## 八、物理及化学特性

物质状态：固体
外观：黄色
气味：无
熔点：1063℃
沸点：2807℃
爆炸界限：——

## 九、安定性及反应性

安定性：依一般操作及储存程序时，安定性佳。
危害分解物：强氧化剂、强酸、双氧水。
可能危害反应：——

## 十、毒性资料

急毒性：无
局部效应或皮肤腐蚀性：无
致敏感性或刺激性：无
慢毒性或长其毒性：无
特殊效应：无

## 十一、生态资料

严禁丢弃至海洋、水域或陆地。

## 十二、废弃物处理及处置

1、参考相关的法规处理。
2、依照仓储条件储存待处理的废弃物。
3、采用集中回收处理。

## 十三、运送资料

运输时包装要完整，运输过程中应防止雨淋，不可与食用物品共贮混运。
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## 十四、适用法则

标示：
危害警告讯息：无
危害防范措施：1、置于干燥通风且处于密封状态。
2、远离高温。
3、配戴手套或指套作业。
适用法则：1、劳动安全卫生设施规则。
2、危险物与有害物有物通识规则。
3、事业废弃物储存清除处理办法及设施标准。

三级文件			
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文件编号	HLQI-QA-94	页码	1/2
整理：陈伟		审核：陈秀昌	核准：龙钦飞

一、成分辨别资料

危 害 性 成 分				
化学名称	含量%	化学文摘社登记	可容许暴露的界限	价值开始的界限
镍	99. 98%	7488-55-3	—	—
镍光泽剂	0. 02%	700019	1mg/m³	1mg/m³

二、危害辨别资料

进入人体之途径	<div> <div>■ 吞食</div> <div>■ 皮肤接触</div> <div>■ 吸入</div> </div>
健康危害效应	急性：无
	慢性：无
健康危害效应	
急性：吸入：在高温加工过程中，吸入此电镀产品逸出之气体会危害到呼吸器官。	
眼睛：无刺激。	
皮肤：高温熔融时会对皮肤造成烫伤。	
吞食：表现症状为消化不良	
慢性：——	

三、急救措施

急救方法	
吸入：若吸入此电镀产品在高温加工过程中逸出之气体，将患者移到通风处，若有不适，立即就医。	
皮肤接触：若接触到此电镀产品，以清水冲洗。	
吞食：催吐，以清水漱口。	

四、灭火措施：无（此电镀产品不会引发火灾。）

五、泄漏之紧急措施

注意事项：若此电镀产品残留于地上，立即清扫处理，以防人员跌倒。
清理方法：回收或报废。（依当地环保单位废弃物管理办法进行处理。）

六、处理与储存

处理：1、做好整理整顿以免混料，堆积。
2、已开封但未用完之料包，须封好避免与空气接触以免氧化。
3、作业温度不宜高于 1453℃摄氏度，人员须佩戴带防护设施，避免吸入蒸气、粉尘。
储存：存放在阴凉场所，避免阳光直射及雨淋。

七、曝露预防措施

个人防护：穿工作服。
眼部：——
呼吸：——
手部：接触产品时需使用手套或指套。
皮肤及身体防护：衣物。
个人卫生：1、工作场所禁止饮食。
2、处理本物质后须彻底洗手。
3、维持作业场所清洁。

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## 八、物理及化学特性

物质状态：固体
外观：银白
气味：无
熔点：1453℃
沸点：2732℃
爆炸界限：——

## 九、安定性及反应性

安定性：依一般操作及储存程序时，安定性佳。
危害分解物：强氧化剂、强酸、双氧水。
可能危害反应：——

## 十、毒性资料

急毒性：无
局部效应或皮肤腐蚀性：无
致敏感性或刺激性：无
慢毒性或长其毒性：无
特殊效应：无

## 十一、生态资料

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运输时包装要完整，运输过程中应防止雨淋，不可与食用物品共贮混运。
----------------------------------

## 十四、适用法则

标示：
危害警告讯息：无
危害防范措施：1、置于干燥通风且处于密封状态。
2、远离高温。
3、配戴手套或指套作业。
适用法则：1、劳动安全卫生设施规则。
2、危险物与有害物有物通识规则。
3、事业废弃物储存清除处理办法及设施标准。