

## Test Report

No. : CE/2010/C2885 Date : 2010/12/21 Page : 1 of 14

GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



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

Sample Description : PLUG FITTING C2680 BRASS  
SGS Ref No. : SZ12877474-23.17  
Style/Item No. : PLEASE REFER TO PAGE 4 TO 11  
Sample Receiving Date : 2010/12/15  
Testing Period : 2010/12/15 TO 2010/12/21

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

Conclusion : Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury and Hexavalent Chromium Cr(VI) comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

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

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GEM TERMINAL IND. CO., LTD.  
NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



## Test Result(s)

PART NAME No.1 : BRASS COLORED METAL

Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	10	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 6)	0.02mg/kg with 50 cm <sup>2</sup> surface area	Negative	#
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	-
PFOA (CAS No.: 000335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	-

### Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. \*\* = Qualitative analysis (No Unit)
6. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;  
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

#### Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;  
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.

7. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement.

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement.

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## PFOS Reference Information : Directive 2006/122/EC

(1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.

(2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than  $1\mu\text{g}/\text{m}^2$  of the coated material.

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



Style/Item No. :

貨號(產品編號): C2680 BRASS

33SS7B-001-4.0	92047BS-2	92136BS-2	92536BS-2	95611BL-2	95754BS-0	96453LBS-2	96635BS-2
33SS7B-001-4.0X	92051BS-2	92136LBS-2	92537BS-0	95611LBL-2	95757BS-0	96454BS-0	96636BS-2
33SS7B-001-4.8	92051SBS-2	92136SBS-2	92617BS-0	95614BL-1	95758BL-0	96454BS-2	96637BS-0
33SS7B-001-4.8X	92052BS-2	92141BS-0	92617BS-2	95614LBL-1	95758BS-0	96455BS-2	96637BS-2
33SS7B-002-4.0	92052SBS-2	92141BS-2	92630BS-0	95650BL-0	95761BS-0	96455LBS-2	96638BS-0
33SS7B-002-4.0X	92053BS-2	92146BS-2	92630BS-2	95650SBL-0	95761LBS-0	96456BS-2	96638BS-2
33SS7B-002-4.8	92053LBS-2	92156BS-0	92644BS-0	95651BL-0	95765BL-0	96456LBS-2	96639BS-2
33SS7B-002-4.8X	92053SBS-2	92156BS-2	92644BS-2	95652BL-0	95765BL-1	96457BS-0	96641BS-2
88051DBL-0	92055BS-2	92157BS-0	92646BS-0	95653ABS-0	95770ABL-0	96457BS-2	96642BL-2
88051DBL-2	92056BS-2	92157BS-2	92646BS-2	95653ABS-1	95770BL-0	96480BS-2	96643BL-2
88051DBS-0	92057BS-2	92158BS-0	92651BS-0	95653BL-0	95771BL-0	96481BS-0	96643BS-2
88051DBS-2	92058BS-2	92158BS-2	92651BS-2	95653BS-1	95772BS-0	96481BS-2	96643SBL-2
88051LBS-2	92059BS-2	92159BS-0	92746BS-0	95654BL-0	95773BL-0	96482BS-0	96645BS-0
88053DBL-0	92064BS-1	92159BS-2	92746BS-2	95654BL-1	95773BS-0	96482BS-2	96645BS-2
91301CL-0	92066ABS-2	92231BS-0	92747BS-0	95655BL-0	95774BS-0	96483BS-0	96646BL-2
92010BS-0	92066BS-0	92231BS-2	92747BS-2	95655BL-1	95788BL-0	96483BS-2	96646BS-2
92010BS-1	92066BS-2	92232BS-0	92748BS-0	95656BL-0	95789BL-0	96485BS-0	96660BS-2
92010LBS-0	92067BS-2	92232BS-2	92748BS-2	95656BL-1	96051BS-2	96485BS-2	96661BL-2
92010LBS-1	92067SBS-1	92315BL-2	92749BS-0	95657BL-0	96051LBS-2	96486BS-0	96661BS-2
92010LBS-315	92067SBS-2	92321BS-0	92749BS-2	95657BL-1	96136LBS-2	96486BS-2	96662BS-2
92020BS-0	92068ABS-2	92321BS-2	92750BS-0	95658BL-0	96143BS-0	96486BS-0	96663ABS-0
92020BS-2	92068BS-2	92322BS-0	92750BS-2	95658BL-1	96143BS-2	96486BS-2	96663BS-0
92021ABS-2	92071BS-0	92322BS-2	93733BS-2	95659BL-0	96144ABS-0	96486SBS-0	96663BS-2
92021BS-0	92071BS-2	92403BS-0	93733PS-2	95659BL-1	96144BS-0	96486SBS-2	96664BS-0
92021BS-2	92083BS-2	92403BS-2	93739BS-2	95660ABL-0	96144BS-2	96543ABS-0	96664BS-2
92021SBS-0	92083LBS-2	92420BS-2	93741BS-2	95660BL-0	96145BS-2	96543ABS-2	96665LBL-2
92021SBS-2	92084BS-2	92421BS-2	93741SBS-2	95661BL-0	96146BS-0	96543BS-2	96665BS-2
92023BS-0	92084SBS-2	92430BS-2	93745LBS-2	95662BL-0	96146BS-2	96543LBS-0	96665SBL-2
92023BS-2	92085BS-2	92431BS-0	93747LBS-0	95663ABL-0	96147BS-0	96543LBS-2	96665SBS-2
92024BS-2	92085SBS-2	92431BS-2	93749BS-2	95663BL-0	96147BS-1	96551BS-2	96666BS-0
92024LBS-2	92110BS-2	92433BS-0	93750BS-2	95663BS-0	96148BS-0	96551LBS-2	96666BS-2
92024LPS-2	92111BS-2	92433BS-2	95601BL-2	95664BL-0	96149BS-0	96552BS-0	96666LBS-0
92024SBS-2	92120BS-0	92434BS-0	95602BL-2	95664BS-0	96149BS-2	96552BS-2	96666LBS-2
92025BS-0	92120BS-2	92435BS-2	95603ABL-2	95665BL-0	96153BS-0	96552LBS-2	96666SBS-0
92025BS-2	92121ABS-0	92436BS-2	95603BBL-2	95666BL-0	96154BS-0	96553LBS-2	96666SBS-2
92026BS-2	92121ABS-2	92437BS-0	95603CBL-2	95667LBL-0	96164ABS-2	96554LBS-2	96675BS-0
92027LBS-2	92121BS-0	92437BS-2	95603DBL-2	95667LBS-0	96164ALBS-2	96600BS-2	96675BS-2
92027LPS-2	92121BS-2	92438BS-0	95603EBL-2	95668BS-0	96164BS-2	96601BS-0	96675LBS-0
92027PS-2	92122ABS-0	92438BS-2	95604BL-0	95672BL-0	96164LBS-2	96601BS-2	96675LBS-2
92028LBS-2	92122ABS-2	92439BS-0	95604BL-1	95672LBL-0	96168BL-0	96601LBS-2	96675SBS-0
92028LPS-2	92122BS-0	92439BS-2	95604BL-2	95673BL-0	96401BS-0	96601SBS-2	96675SBS-2

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NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號): C2680 BRASS

92028PS-2	92122BS-2	92440BS-2	95604LBL-0	95673LBL-0	96401BS-2	96602BS-2	96676BS-0
92029BS-0	92123BS-0	92517BS-1	95604LBL-1	95674BL-0	96402ABS-2	96602LBS-0	96676BS-2
92029BS-2	92123BS-2	92518BL-1	95604LBL-2	95674LBL-0	96402BS-2	96602LBS-2	96676LBS-2
92030BS-0	92124BS-0	92519BS-2	95605BL-0	95675BL-0	96407BS-2	96602SBS-0	96701BS-0
92030BS-2	92124BS-2	92524BS-0	95605BL-1	95675BL-1	96413BS-0	96602SBS-2	96701BS-2
92033BS-2	92125BS-0	92524BS-2	95605LBL-0	95676BL-0	96413BS-2	96603BS-0	96701LBS-0
92034BS-0	92125BS-2	92525BL-2	95605LBL-1	95676BL-1	96420BS-0	96603BS-2	96701LBS-2
92034BS-2	92126BS-0	92525BS-2	95606BL-0	95680BS-1	96420BS-2	96615BS-2	96701SBS-0
92035ABS-2	92126BS-2	92526BS-0	95606BL-1	95681BL-1	96424BS-0	96615SBS-0	96701SBS-2
92035BS-2	92127BS-0	92527BS-0	95606BL-2	95687BL-0	96424BS-2	96615SBS-2	96702BS-0
92036BS-2	92127BS-2	92527BS-2	95606LBL-0	95688BL-0	96438BS-0	96616BS-0	96702BS-2
92036LBS-2	92128BS-0	92530BS-0	95606LBL-1	95689BL-0	96438BS-2	96616BS-2	96702LBS-0
92037BS-0	92128BS-2	92530BS-2	95606LBL-2	95701BL-0	96442BS-2	96629BS-0	96702LBS-2
92037BS-2	92130ABS-0	92531BS-2	95609BL-0	95701BL-1	96442LBS-0	96629BS-2	96702SBS-0
92040BS-0	92130BS-0	92532BS-2	95609BL-1	95701BL-2	96442LBS-2	96630BS-0	96702SBS-2
92040BS-2	92130BS-2	92533BS-0	95609LBL-0	95701BS-0	96443BS-2	96630BS-2	96702SSBS-0
92041BS-2	92130LBS-0	92533BS-2	95609LBL-1	95702BS-0	96450BS-2	96630SBS-0	96702SSBS-2
92042BS-2	92131BS-0	92534BS-0	95610BL-0	95702BS-2	96451BS-2	96632BS-2	96714BS-1
92043BS-2	92131BS-2	92534BS-2	95610BL-1	95750BL-0	96452BS-0	96633BS-0	96714BS-1C
92046BS-0	92132BS-0	92535BS-0	95610LBL-0	95752BS-0	96452BS-2	96634BS-0	96714BS-2
92046BS-2	92134BS-0	92535BS-2	95610LBL-1	95752LBS-0	96452LBS-2	96634BS-2	96730BS-0
92047BS-0	92134BS-2	92536BS-0	95611BL-1	95753BS-0	96453BS-2	96635BS-0	96730BS-2
96731BS-0	96753BS-2	97135BS-0	97630BS-1	97662BBS-1A4	97762BS-0	98101BS-1	98311BS-0
96731BS-2	96753BS-3	97470ABL-1	97632BL-0	97662BBS-1A6	97763BS-0	98110BL-1	98311BS-1
96733BS-0	96754BS-0	97470BL-1	97632BL-1	97662BL-1	97764BS-0	98150BS-0	98340BS-0
96733BS-2	96754BS-2	97475BS-0	97641ABL-0	97662BL-1L	97764BS-1	98150BS-1	98340BS-1
96733SBS-0	96755SBL-2	97475BS-1	97641ABL-1	97662BL-1R	97764SBS-1	98160ABS-0	98350BS-0
96733SBS-2	96756SBL-2	97478BL-1	97641BBL-0	97662BS-0	97766BL-0	98160BS-0	98350BS-1
96734BS-0	96758BBS-2	97603ABL-1	97641BKL-0	97662BS-1	97766BS-0	98160BS-1	98370BS-0
96734BS-2	96758BS-0	97603BBL-1	97641BL-0	97662BS-1A3	97770BL-0	98164BS-0	98370BS-2
96735BS-2	96758BS-2	97603CBL-2	97641BL-1	97662BS-1A4	97771BL-0	98167BS-0	98400BS-1
96735SBS-2	96760BS-0	97603DBL-0	97641CBL-0	97662HBS-1	97780BS-0	98167BS-1	98401BS-1
96736BS-0	96760BS-2	97603EBL-0	97641DBL-0	97667ABL-0	97780BS-1	98170BS-0	98401SBS-0
96737SSBL-2	96760SBS-0	97606BS-0	97641DBL-1	97667BBL-0	97780SBS-0	98190BS-0	98401SBS-1
96737SSBS-2	96760SBS-2	97606BS-1	97641EBL-0	97669BL-1L	97800BBL-04	98190BS-1	9841(3.5)BS-1
96738SBL-2	96761BS-0	97606SBS-1	97641EBL-1	97669BL-1R	97800BBL-06	98191BS-0	98413BS-1
96738SBS-2	96762BS-1	97607BS-0	97642BL-0	97671BS-0	97800BL-01	98193BS-0	98415BS-1
96739BS-2	96763BS-2	97607BS-1	97642BL-1	97673BBL-1L	97800BL-03	98195BL-0	98416BS-1
96739BS-3	96764BS-0	97608BL-1	97643BL-0	97673BBL-1R	97800BL-04	98200BS-0	98416BS-3
96739SBS-2	96764BS-2	97609BL-0	97646BS-0	97673BBS-0	97800BL-06	98200BS-1	98422BS-1
96740ABS-0	96765BL-2	97609BL-1	97646BS-1	97673BBS-1	97800BL-07	98219BS-0	98422BS-2
96740ABS-2	96765BS-0	97610BL-0	97647BS-1	97673BL-1	97800CBL-04	98220BS-0	98424BS-0
96740BBL-2	96765BS-2	97610BL-1	97648BS-1	97673BS-0	97800CBL-06	98220BS-1	98424BS-1
96740BBS-2	96765LBS-0	97611BL-1	97649BL-1	97673BS-1	97801ABL-04	98230BS-0	98424SBS-0
96740BS-2	96765LBS-2	97611BS-1	97650ABL-0	97673BS-1A1	97801ABL-06	98230BS-1	98424SBS-1

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號): C2680 BRASS

96740SBS-2	96765PL-2	97612ABL-0	97650ABS-0	97674BS-1	97801BBL-04	98230BS-A0	98425BL-1
96741BS-2	96765SBL-2	97612ABL-1	97650BBL-0	97675ABS-1	97801BBL-06	98231BS-0	98425BS-1
96741LBS-0	96765SBS-0	97612BL-1	97650BL-0	97675BBL-1	97801BL-01	98232BS-0	98426BL-1
96741SBS-2	96765SBS-2	97613BL-1	97651ABL-0	97675BBS-0	97801BL-03	98232BS-1	98426BS-1
96741SBS-2	96765SPL-2	97614BL-1	97651ABS-0	97675BBS-1	97801BL-04	98233BS-0	98430BL-0
96742BS-2	96766BS-0	97615BL-0	97651BBL-0	97675BBS-A1	97801BL-06	98233BS-1	98430BL-2
96742SBS-2	96766BS-2	97615BL-1	97651BBS-0	97675BL-1	97801BL-07	98234ABS-0	98430BS-0
96743BS-2	96767BS-0	97616BL-0	97651BL-0	97675BL-1L	97801CBL-04	98234BS-0	98430BS-1
96743LBS-2	96767BS-2	97616BL-1	97651BS-0	97675BL-1R	97801CBL-06	98235BS-0	98430BS-2
96743SBS-2	96768BS-2	97617BL-1	97652BL-0	97675BS-0	97801DBL-04	98236BS-0	98438ABS-0
96743SPL-2	96770BS-2	97617BS-1	97653BL-0	97675BS-1	97801DBL-06	98236BS-1	98438ABS-1
96744BS-0	96771BL-2	97618BL-0	97654BL-0	97675BS-A1	97802BL-02	98236LBS-0	98438BBS-0
96744BS-2	96771BS-2	97618BS-0	97654BL-1	97675SBS-1	97802BL-03	98237BS-0	98438BS-0
96745BS-0	96771SBL-2	97619ABS-0	97655BL-0	97676BL-2	97802BL-04	98238BS-0	98438BS-1
96745BS-2	96771SBS-2	97619ABS-1	97655BL-1	97677BBL-0	97802BL-06	98238BS-1	98463BL-0
96745LBS-2	96772BL-2	97619BL-0	97656BL-0	97678BS-1	97803ABL-0	98245BS-0	98470ABL-0
96746BS-0	96772BS-2	97619BL-1	97656BL-1	97679BS-1	97803BL-02	98247BS-0	98470ABL-1
96746BS-2	96772SBL-2	97619BS-1	97657BBL-0	97681BL-1	97803BL-03	98247BS-2	98470BL-0
96747BS-0	96773ABS-2	97621BL-1	97657BL-1	97681BS-1	97803BL-06	98248BS-0	98470BL-1
96747BS-2	96773APS-2	97621BS-1	97657BS-0	97682BL-1	97804BL-0	98249BL-0	98470BS-0
96747LABS-0	96773BS-2	97621LBL-1	97657BS-1	97682BS-1	97804BL-04	98249BL-1	98470SBL-0
96747LBS-0	96774ABS-0	97621LBS-1	97660BS-0	97684BS-1	97805BL-04	98260BS-0	98470SBL-1
96748ABS-0	96774ABS-2	97622ABS-0	97660BS-1	97690BL-1	97805BL-06	98260BS-2	98471BL-0
96748ABS-2	96774BS-0	97622BBS-0	97661BBL-1	97693BL-1	97806BL-03	98270BS-0	98472BL-0
96748BBS-2	96774BS-2	97622BS-0	97661BBS-0	97701BL-0	97806BL-04	98270BS-2	98472BL-1
96748BS-0	96775BS-2	97622BS-1	97661BBS-1	97701BL-2	97806BL-06	98275ABS-0	98473BS-0
96748BS-2	96776BS-0	97623ABS-0	97661BBS-1A1	97702BL-0	97807ABL-04	98275BS-0	98473BS-1
96748SBS-2	96776BS-1	97623BBS-0	97661BBS-1A3	97702BL-2	97807BBL-03	98276BS-0	98473LBS-0
96749BS-0	96778SBS-2	97623BS-0	97661BBS-1B3	97717BS-0	97807BBL-04	98276BS-1	98473LBS-1
96749BS-2	96779BS-0	97623BS-1	97661BL-1	97740BS-0	97807BBL-06	98276BS-2	98474BS-0
96750BS-0	96779BS-2	97624ABS-0	97661BL-1L	97740LBS-0	97807BL-04	98277ABS-0	98474BS-1
96750BS-2	96780LBS-2	97624BBS-0	97661BL-1R	97741ABS-0	97808BL-07	98277BS-0	98474LBS-0
96751BS-0	96780SBS-2	97624BS-0	97661BS-0	97741BS-0	97809BL-07	98277BS-1	98474LBS-1
96751BS-2	96781BS-0	97624BS-1	97661BS-1	97742ABS-0	97907SBS-1	98279BS-0	98474SBS-1
96752BS-0	96781BS-1	97626ABL-0	97661BS-1A1	97742BS-0	98051A	98279BS-2	98475ABL-0
96752BS-2	96781BS-2	97626ABL-1	97661HBS-1	97743BS-0	98079ABL-0	98281BS-0	98475ABL-1
96752BS-3	96782BS-1	97628ABS-1	97662BBL-1	97747BS-0	98079BBL-0	98281BS-1	98475ABL-3
96752LBS-0	96783BS-0	97628BS-0	97662BBS-0	97750BS-0	98079BL-07	98283BS-0	98475ABS-0
96752LBS-2	96783BS-2	97628BS-1	97662BBS-1	97751BL-0	98079CBL-0	98300BS-0	98475ABS-1
96752SBS-0	96784BS-0	97628BS-1A4	97662BBS-1A1	97755LBS-0	98079DBL-0	98300BS-1	98475ABS-3
96752SBS-2	96784BS-2	97629BL-1	97662BBS-1A3	97761BS-0	98100BL-0	98310BS-0	98475BL-0
98475BL-1	98617SBS-0	98654ASBS-1	98665BS-1	98675BL-0	98695BBS-0	98744LBS-0	98773BS-0
98475BS-0	98618ABL-0	98654BL-0	98666BBS-0	98675BL-0/A	98695BBS-1	98745ABS-0	98773LBS-0
98475BS-1	98618ABL-1	98654BS-0	98666BBS-0B1	98675BL-0L	98695BS-0	98745BBS-0	98774BL-0
98476BS-0	98618BL-0	98654BS-1	98666BBS-0GE	98675BL-0R	98695BS-1	98745BL-0	98775BL-0
98477BS-0	98618BL-1	98654SBS-0	98666BBS-1	98675BL-1	98695LBS-0	98745BS-0	98775BL-1
98477BS-1	98618SBL-0	98654SBS-1	98666BBS-1A1	98675BL-1L	98695LBS-1	98745SBS-0	98776BL-0

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# Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號): C2680 BRASS

98478ABL-0	98618SBL-1	98655BL-0	98666BBS-1B1	98675BL-1R	98695SBS-1	98745SBS-0A	98776BS-0
98478ABL-1	98621BS-0	98655LBL-1	98666BS-0	98675BS-0	98696BS-0	98746ABS-0	98779BL-0
98478BBL-0	98622BS-0	98655LBS-0	98666BS-0A1	98675BS-1	98696BS-1	98746BBS-0	98779BL-2
98478BBL-1	98625ABS-1	98655LBS-1	98666BS-1	98676BBS-0	98697BS-0	98746BS-0	98779BL-0
98478BL-0	98625BBS-1	98655LRBS-1	98666BS-1A1	98676BBS-1	98697BS-1	98746SBS-0	98780BL-0
98478BL-1	98625BS-1	98655SBL-1	98667BBS-0	98676BS-0	98699BBS-0	98747BS-0	98780LBL-0
98478CBL-0	98625BS-A1	98655SBS-0	98667BBS-1	98676BS-1	98699BBS-1	98748BS-0	98781ABL-0
98478CBL-1	98625LBS-1	98655SBS-1	98667BS-0	98677BBS-0	98699BS-0	98749BS-0	98781ABL-08
98479ABL-0	98625LBS-A1	98655SRBS-1	98667BS-1	98677BBS-1	98699BS-1	98749BS-1	98781ABL-13
98479ABS-0	98626BS-0	98657ABS-1	98668BBS-0	98677BS-0	98699CBS-1	98750ABS-0	98781BL-0
98479BL-0	98626BS-1	98657ARBS-1	98668BBS-1	98677BS-1	98699LBS-0	98750BBS-0	98781BL-02
98479BS-0	98627LBS-1	98657BS-1	98668BS-0	98678BBS-1	98699LBS-1	98750BS-0	98781BL-03
98481BL-0	98628BS-0	98657HBS-1	98668BS-1	98678BL-0	98702ABS-0	98750BS-1	98781BL-04
98482BS-0	98628BS-1	98658ABS-1	98669BBS-0	98678BL-1	98702BBS-0	98750CBS-0	98781BL-05
98482BS-1	98630BL-0	98658BS-1	98669BBS-1	98678BS-0	98702BS-0	98751BS-0	98781BL-07
98483BL-0	98630BL-1	98659BS-1	98669BS-0	98678BS-1	98706BS-1	98752ABS-0	98781BL-08
98483BS-0	98631BL-0	98659SABS-1	98669BS-1	98679BBS-0	98707BS-1	98752BS-0	98781CBL-06
98484BS-0	98632BL-0	98659SBS-1	98670BBS-0	98679BBS-1	98708BS-0	98752BS-1	98782ABL-0
98484BS-1	98635BL-0	98659SBS-1GEM	98670BBS-1	98679BL-0	98709BS-1	98752LBS-0	98782ABL-03
98550BS-0	98635BL-1	98661ABS-0	98670BS-0	98679BL-1	98714SBS-2	98755BS-0	98782ABL-04
98550BS-1	98638BL-0	98661ABS-1	98670BS-1	98679BS-0	98715BS-0	98755BS-1	98782ABL-05
98575ABS-0	98638BL-1	98661BBL-0	98671BS-0	98679BS-1	98715BS-1	98755LBS-0	98782ABL-07
98575ABS-1	98639BL-0	98661BBL-1L	98671BS-1	98680BBS-0	98715BS-2	98755LBS-1	98782BBL-07
98575BBS-0	98639BL-1	98661BBL-3	98671LBS-0	98680BBS-1	98715SBS-2	98756BS-0	98782BL-0
98575BBS-1	98640BL-0	98661BBS-0	98671LBS-1	98680BS-0	98716BS-0	98757BS-0	98782BL-02
98575BS-0	98642BL-0	98661BBS-1	98671SBL-0	98680BS-1	98717BS-2	98757BS-1	98782BL-03
98575BS-1	98642BL-1	98661BL-1	98672BS-0	98681ABS-1	98721BS-0	98758BS-0	98782BL-04
98575CBS-0	98643BL-0	98661BL-1L	98672BS-1	98681BS-0	98721SBS-2	98758BS-1	98782BL-05
98575LBS-0	98643BL-1	98661BL-1R	98673BBL-0	98681BS-1	98721SBS-5	98759BS-0	98782BL-07
98575LBS-1	98644BBS-0	98661BS-0	98673BBL-0L	98682BL-0	98723BS-0	98759BS-1	98782BL-08
98576BS-0	98644BBS-1	98661BS-1	98673BBL-0R	98682BL-1	98724ABS-0	98760BS-0	98782CBL-05
98578BL-0	98644BS-0	98661BS-A1	98673BBL-1	98683BL-0	98724BS-0	98760BS-ODM	98782CBL-07
98579BS-0	98644BS-1	98661CBS-1	98673BBL-1L	98683BL-1	98728BS-0	98761ABS-0	98782EBL-05
98580BL-1	98645BBS-0	98662ABS-0	98673BBL-1R	98684BL-0	98728BS-2	98761BBS-0	98782FBL-06
98601BL-0	98645BBS-1	98662ABS-1	98673BBS-0	98684BL-1	98732BS-0	98761BS-0	98782GBL-04
98601BL-1	98645BS-0	98662BBL-0	98673BBS-1	98685BL-0	98732BS-1	98761CBS-0	98782GBL-05
98602BL-0	98645BS-1	98662BBL-1R	98673BL-0	98685BL-1	98732BS-2	98762ABL-0	98782GBL-06
98602BL-1	98646BS-0	98662BBL-3	98673BL-0L	98687BL-0	98733LBS-0	98762ABS-0	98782GBL-07
98604BL-0	98646BS-1	98662BBS-0	98673BL-0R	98687BL-1	98735BL-0	98762BL-0	98782HBL-03
98604BL-1	98647BS-0	98662BBS-1	98673BL-1	98688BL-0	98735BL-1	98762BS-0	98782IBL-03
98605BL-0	98647BS-1	98662BL-1	98673BL-1L	98688BL-1	98735BL-2	98763BL-0	98782JBL-03
98605BL-1	98648BBS-0	98662BBL-1L	98673BL-1R	98689BL-0	98737BL-0	98763BS-0	98783ABL-0
98606BL-0	98648BBS-1	98662BL-1R	98673BS-0	98689BL-1	98737BL-2	98764BL-0	98783ABL-04
98606BL-1	98648BS-0	98662BS-0	98673BS-0A1	98690BL-0	98739ABS-0	98764BS-0	98783ABL-05
98607BL-0	98648BS-1	98662BS-1	98673BS-1	98690BL-1	98739BBS-0	98765BL-0	98783ABL-06
98607BL-1	98650BS-0	98663BBS-0	98673BS-1A1	98691BL-0	98739BS-0	98765BS-0	98783ABL-08
98611BL-1	98650BS-1	98663BBS-1	98673HBS-0	98691BL-1	98739BS-1	98766BL-0	98783BBL-07
98611BS-0	98651ABL-1	98663BS-0	98673HBS-1	98692BBS-0	98739LBS-0	98767BL-0	98783BL-0

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# Test Report

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GEM TERMINAL IND. CO., LTD.  
NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號): C2680 BRASS

98612BL-0	98651A-UE1	98663BS-1	98674BS-0	98692BBS-1	98740ABS-0	98767BS-0	98783BL-02
98612BL-1	98651FBL-1	98664BBS-0	98674BS-1	98692BS-0	98740BBS-0	98768BL-0	98783BL-03
98614BL-0	98651LL-0VDE	98664BBS-1	98675BBL-0	98692BS-1	98740BS-0	98768BL-1	98783BL-04
98615BL-0	98652BS-0	98664BS-0	98675BBL-1	98693ABL-0	98740CBS-0	98769BL-0	98783BL-05
98615BL-1	98652BS-1	98664BS-1	98675BBS-0	98693ABL-1	98740HBS-0	98769BL-1	98783BL-07
98616BL-1	98653BS-0	98665BBS-0	98675BBS-0A1	98693BBL-1	98740LBS-0	98770BL-0	98783BL-08
98617ABL-0	98653BS-1	98665BBS-1	98675BBS-1	98693BL-0	98741SBS-0	98770BS-0	98783CBL-06
98617ABL-1	98654ABS-0	98665BBS-1A1	98675BBS-1A1	98693BL-1	98743BS-0	98771ABL-0	98783DBL-03
98617BL-0	98654ABS-1	98665BBS-1B1	98675BBS-A1	98694BL-0	98744BBS-0	98771BL-0	98785BL-0
98617BL-1	98654ABS-0	98665BS-0	98675BBS-B1	98694BL-1	98744BS-0	98772BL-0	98785BL-2
98787ABL-0	99035ABS-2	99139BS-2	99222BS-2	99425BS-0	99445BS-0	99467BS-0	99486BS-0
98787BL-0	99035BS-2	99140BS-0	99223BS-0	99425BS-2	99445BS-1	99467BS-2	99486BS-2
98788ABL-0	99036LBS-2	99140BS-2	99223BS-2	99425LBS-0	99445BS-2	99468BL-2	99486CBS-0
98788ABL-06	99041ABS-0	99141ABS-0	99241BS-0	99425LBS-2	99445LBS-0	99468BS-0	99486CBS-2
98788BL-0	99041ABS-2	99141ABS-2	99241BS-2	99426BS-0	99445LBS-2	99468BS-2	99486SBS-0
98788BL-06	99041BS-0	99141BS-0	99251BS-0	99426BS-2	99446ABS-0	99469BS-0	99486SBS-2
98789ABL-06	99042BS-0	99141BS-2	99251BS-2	99427BS-0	99446ABS-2	99469BS-2	99487BS-0
98789BL-06	99042BS-2	99142BS-0	99341BS-0	99427BS-2	99446BS-0	99470ABS-0	99487BS-2
98790ABL-04	99043BS-0	99142BS-2	99341BS-2	99428BS-0	99446BS-2	99470ABS-2	99488BS-0
98790ABL-05	99050BS-0	99143BS-0	99342BS-0	99428BS-2	99447BS-0	99470BL-2	99488BS-2
98790BL-04	99050BS-2	99143BS-1	99342BS-2	99428SBS-0	99447BS-2	99470BS-0	99489BS-0
98790BL-05	99051ABS-0	99143BS-2	99343BS-0	99428SBS-2	99448BL-0	99470BS-2	99489BS-2
98791BL-0	99051ABS-2	99143SBS-0	99343BS-2	99429BS-0	99448BS-0	99470LBS-0	99490BS-0
98792BL-0	99051BS-0	99144BS-0	99346BS-0	99429BS-2	99448BS-2	99470LBS-2	99490BS-2
98794BS-0	99051BS-2	99144BS-2	99351BS-0	99430BBS-0	99448BS-2X	99471ABS-0	99491ABS-0
98800BL-04	99051LBS-0	99145BS-0	99351BS-2	99430BBS-2	99448LBS-2	99471ABS-2	99491ABS-2
98800BL-05	99053BS-2	99145BS-2	99352BS-0	99430BS-0	99449BS-0	99471BL-2	99491BBS-0
98810ABL-0	99054BS-2	99146BS-0	99352BS-2	99430BS-2	99449BS-2	99471BS-0	99491BBS-2
98810ABL-1	99062BS-2	99147BS-0	99363BS-0	99431ABS-0	99450BS-0	99471BS-1	99491BS-0
98810BBL-0	99063BS-0	99147BS-2	99400BS-0	99431ABS-2	99450BS-2	99471BS-2	99491BS-2
98810CBL-0	99063BS-2	99148BS-0	99400BS-2	99431BS-0	99451BS-0	99472BL-2	99492BS-0
98810DBL-0	99064BS-0	99148BS-2	99401BS-0	99431BS-2	99451BS-2	99472BS-0	99492BS-2
98810EBL-0	99064BS-2	99149BS-0	99401BS-2	99432ABS-0	99452BS-0	99472BS-2	99492LBS-0
98840BL-0	99110BS-0	99149BS-2	99403BS-2	99432ABS-1	99452BS-2	99473ABS-0	99492LBS-2
98840BL-02	99110BS-2	99150BS-0	99404ABS-0	99432ABS-2	99453BS-0	99473ABS-2	99493BS-0
98840BL-03	99115BS-0	99150BS-1	99404ABS-2	99432BS-0	99453BS-2	99473BS-0	99493BS-2
98840BL-05	99115BS-2	99150BS-2	99404BBS-0	99432BS-2	99454BS-0	99473BS-2	99494ABS-0
98840BL-07	99116BS-0	99151ABS-0	99404BBS-2	99433BS-0	99454BS-2	99474BS-0	99494BS-0
98841BL-0	99116BS-2	99151ABS-2	99404BS-0	99433BS-2	99455BS-0	99474BS-2	99494BS-2
98841BL-02	99121BS-0	99151BS-0	99404BS-2	99434BS-0	99455BS-2	99475ABS-2	99496BS-0
98841BL-03	99121BS-2	99151BS-2	99406BS-0	99434BS-2	99456ABS-0	99475BL-2	99496BS-2
98841BL-05	99122BS-2	99152BS-0	99406BS-2	99435BS-0	99456ABS-2	99475BS-0	99497BS-0
98841BL-07	99123BS-2	99152BS-2	99407BS-0	99435BS-2	99456BBS-0	99475BS-0TC	99497BS-2
98842BL-0	99125BS-0	99153BS-0	99407BS-2	99436BS-0	99456BBS-2	99475BS-1	99498BS-0
98842BL-03	99125BS-2	99153BS-2	99408BS-0	99436BS-2	99456BL-2	99475BS-2	99498BS-2
98842BL-07	99126BS-0	99154BS-0	99408BS-2	99437BS-0	99456BS-0	99475BS-2TC	99499BS-0
98850BL-0	99126BS-2	99154BS-2	99409BS-0	99437BS-2	99456BS-2	99475LBS-0	99499BS-2

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# Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號): C2680 BRASS

98850BL-03	99128BL-0	99155BS-0	99409BS-2	99438ABS-0	99456SBS-2	99475LBS-2	99500BS-0
98850BL-04	99128BL-2	99155BS-2	99411BS-0	99438ABS-2	99457BS-0	99476BS-0	99500BS-2
98850BL-05	99129ABS-0	99156BS-0	99411BS-2	99438BBS-0	99457BS-2	99476BS-2	99532BS-0
98850BL-07	99129ABS-2	99156BS-2	99412BS-0	99438BBS-2	99458ABS-0	99477BS-0	99532BS-2
98870BL-1	99129BS-0	99157BS-0	99412BS-2	99438BS-0	99458ABS-2	99477BS-1	99533ABS-0
98870BS-1	99129BS-2	99157BS-2	99413BS-0	99438BS-1	99458BS-0	99477BS-2	99533ABS-2
99010BS-0	99130BS-2	99158BS-0	99413BS-2	99438BS-2	99458BS-2	99478BS-0	99533BS-0
99010BS-2	99131BS-0	99158BS-2	99414BS-0	99438CBS-0	99459BS-0	99478BS-2	99533BS-2
99015BS-0	99131BS-2	99159BS-0	99414BS-2	99438CBS-2	99459BS-2	99480BS-0	99533BS-0
99015BS-2	99132ABS-2	99159BS-2	99415BS-0	99439BS-0	99460BL-2	99480BS-2	99533BS-2
99026BS-0	99132BS-2	99161BS-0	99415BS-2	99439BS-2	99460BS-0	99481BS-0	99535BS-2
99026BS-2	99133ABS-2	99161BS-2	99416BS-0	99440BS-0	99460BS-2	99481BS-1	99537BS-0
99027BS-0	99133BS-0	99162BS-0	99416BS-2	99440BS-2	99461BS-0	99481BS-2	99537BS-2
99027BS-2	99133BS-2	99162BS-2	99417BS-0	99441ABS-0	99461BS-2	99482BS-0	99538ABL-0
99029BS-0	99134ABS-1	99163BS-0	99417BS-2	99441ABS-2	99462ABS-0	99482BS-2	99538ABS-0
99029BS-2	99134ABS-2	99163BS-1	99418BS-0	99441BS-0	99462ABS-2	99483BS-0	99538ABS-2
99030BS-2	99134BBS-2	99163BS-2	99418BS-2	99441BS-1	99462BS-0	99483BS-2	99538BS-0
99031BS-0	99134BS-2	99164BS-0	99419BS-0	99441BS-2	99462BS-2	99484ABS-0	99538BS-2
99031BS-2	99134LBS-1	99164BS-2	99419BS-2	99442BS-0	99463BS-0	99484ABS-2	99538BS-2/A
99032BS-2	99134LBS-2	99165BS-0	99421BS-0	99442BS-2	99463BS-2	99484BS-0	99540BS-0
99033BS-0	99135ABS-0	99165BS-2	99421BS-2	99443BS-0	99464BS-0	99484BS-2	99540BS-2
99033BS-2	99135ABS-2	99168BS-0	99422BS-0	99443BS-2	99464BS-2	99485BS-0	99541ABS-0
99034BS-0	99135BBS-2	99168BS-2	99422BS-2	99445ABS-0	99465BS-0	99485BS-2	99541ABS-2
99034BS-2	99135BS-0	99180BS-0	99423BS-0	99445ABS-2	99465BS-2	99486ABS-0	99542BS-0
99034LBS-0	99135BS-2	99220BS-0	99423BS-2	99445BBS-0	99465PS-0	99486ABS-2	99542BS-2
99034LBS-2	99138BS-2	99220BS-2	99424BS-0	99445BBS-2	99466BS-0	99486BBS-0	99543BL-2
99035ABS-0	99139BS-0	99222BS-0	99424BS-2	99445BL-2	99466BS-2	99486BBS-2	99543BS-0
99543BS-2	99615BS-2	99651BL-0	99677BL-0	99741BS-0	99761BS-0	99776BS-2	99843BS-0
99544ABS-0	99621ABS-0	99651BL-2	99679BS-0	99741BS-1	99761BS-2	99777BS-0	99843BS-2
99544ABS-2	99621ABS-2	99651BS-2	99679BS-2	99741BS-2	99761LBS-0	99777BS-2	99850BS-2
99544BS-0	99621BS-0	99652BL-0	99708BS-0	99741KS-1	99761LBS-2	99778BS-0	99851BS-0
99544BS-2	99621BS-2	99652BL-2	99708BS-2	99742BS-0	99761SBS-0	99778BS-2	99851BS-2
99545BS-0	99622BS-0	99653BL-0	99710BS-0	99742BS-2	99761SBS-2	99779BS-0	99852BS-0
99545BS-2	99622BS-2	99653BL-2	99722BS-0	99742SBS-0	99762BS-0	99779BS-2	99852BS-2
99546BS-0	99623BS-0	99654BL-0	99722BS-2	99742SBS-2	99762BS-2	99780BS-0	99853BS-0
99546BS-1	99624BS-0	99654BL-2	99723BS-0	99743BS-0	99763BS-0	99780BS-2	99853BS-2
99546BS-2	99624BS-2	99656BL-0	99723BS-2	99743BS-2	99763BS-2	99781ABS-2	99858BS-0
99547BS-0	99624SBS-0	99656BL-2	99729BS-0	99744BS-0	99764ABS-0	99781BS-0	99858BS-2
99547BS-2	99624SBS-2	99657BL-2	99729BS-2	99744BS-2	99764ABS-2	99781BS-2	99860BS-0
99548BL-2	99625BS-0	99658BS-0	99730ABS-0	99745BL-2	99764BBS-0	99782BS-0	99860BS-2
99548BS-0	99625BS-2	99658BS-2	99730ABS-2	99745BS-0	99764BBS-2	99782BS-2	99867BS-0
99548BS-2	99626BS-0	99658LBS-2	99730BBS-0	99745BS-2	99764BL-2	99783BS-0	99868BS-0
99549BS-0	99626BS-2	99658SBS-2	99730BBS-2	99745KS-1	99764BS-0	99783BS-2	99868BS-2
99549BS-2	99627BS-0	99659BL-2	99730BS-0	99746BS-0	99764BS-1	99784BS-0	99881BS-2
99551BS-0	99627BS-2	99660ABS-2	99730BS-2	99746BS-2	99764BS-2	99784BS-2	99928BS-0
99551BS-2	99628BS-2	99660BS-0	99730LBS-0	99747BS-0	99764CBS-0	99785BS-0	99930BS-0
99560BS-0	99629BL-0	99660BS-2	99730LBS-2	99747BS-2	99764CBS-2	99785BS-2	99932BS-0
99560SBS-0	99629BL-1	99661BS-0	99731BL-2	99748BS-0	99764KS-1	99786BS-0	99932BS-2
99562BS-2	99630BS-0	99661BS-2	99731BS-0	99748BS-2	99764SSBS-0	99786BS-2	99938ABS-0

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# Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號): C2680 BRASS

99563ABS-0	99630SBS-0	99661LBS-0	99731BS-2	99749BS-0	99764SSBS-2	99787BS-0	99938ABS-2
99563ABS-2	99631ABL-0	99661LBS-2	99731LBS-2	99749BS-2	99765BS-0	99787BS-2	99938BS-0
99563BBS-0	99631ABL-2	99661SBS-0	99732ABS-0	99750BS-0	99765BS-2	99788BS-0	99938BS-2
99563BBS-2	99631ABS-0	99661SBS-2	99732ABS-2	99750BS-2	99766ABS-0	99788BS-2	99939BS-0
99563BS-0	99631ABS-2	99662BS-0	99732BBS-0	99751BS-0	99766ABS-2	99789BS-0	99939BS-2
99563BS-2	99631BL-2	99662BS-2	99732BBS-2	99751BS-2	99766BS-0	99789BS-2	99940BS-0
99564BS-0	99631BS-0	99662LBS-0	99732BL-2	99752BL-2	99766BS-2	99790BS-0	99940BS-2
99564BS-2	99631BS-2	99662LBS-2	99732BS-0	99752BS-0	99767BS-0	99790BS-2	99955BS-2
99570BS-0	99632BL-2	99663ABS-0	99732BS-2	99752BS-2	99767BS-2	99793BS-2	A66650SAC-1
99570BS-2	99632BS-0	99663ABS-2	99732CBS-0	99752LBS-0	99768ABS-0	99794BS-0	A88051E
99571BS-0	99632BS-2	99663BS-0	99732CBS-2	99752LBS-2	99768ABS-2	99794BS-2	A96665LBS-2
99571BS-2	99634BS-0	99663BS-2	99732LBS-0	99753BS-0	99768BS-0	99796BS-2	A96665SBS-2
99572BS-0	99635BS-0	99663LBS-0	99732LBS-2	99753BS-2	99768BS-2	99797BS-0	A96765LBS-2
99572BS-2	99635BS-2	99663LBS-2	99733BS-0	99754BL-2	99769ABS-0	99797BS-2	A96765SBS-2
99573BS-0	99636BS-0	99664BS-0	99733BS-2	99754BS-0	99769ABS-2	99797LBS-2	A96780LBS-2
99573BS-2	99636BS-2	99664BS-2	99734BS-0	99754BS-2	99769BBS-0	99797SBS-2	A96780SBS-2
99574BS-0	99637BS-0	99665BS-0	99734BS-2	99755BS-0	99769BBS-2	99798BS-2	A97635B-A0
99574BS-2	99637BS-2	99665BS-2	99735BS-0	99755BS-2	99769BS-0	99798LBS-2	A97635B-A1
99575BS-0	99638BS-0	99666BS-0	99735BS-2	99756ABS-0	99769BS-2	99798SBS-2	A98023L-0
99575BS-2	99638BS-2	99666BS-2	99737ABS-0	99756ABS-2	99770BS-0	99799BS-2	B97628BS-1
99576BS-0	99639BS-0	99667ABS-2	99737ABS-2	99756BBL-2	99770BS-2	99799LBS-0	M88051FBL-1B
99576BS-2	99639BS-2	99667BS-0	99737BS-0	99756BBS-0	99771BS-0	99799LBS-2	M89019
99577BS-0	99640BS-0	99667BS-2	99737BS-2	99756BBS-2	99771BS-2	99799SBS-0	M89019S
99577BS-2	99640BS-2	99668BS-0	99737LBS-2	99756BL-2	99772ABS-0	99799SBS-2	M89027L
99578BS-0	99642BS-0	99668BS-2	99738ABL-2	99756BS-0	99772ABS-2	99800BS-0	M89120L
99578BS-2	99642BS-2	99668SBS-0	99738ABS-0	99756BS-2	99772BBS-2	99800BS-2	M89140L
99579BS-0	99643BS-0	99668SBS-2	99738ABS-2	99756LBS-0	99772BS-0	99801BS-0	M89412S
99579BS-2	99643BS-2	99669BS-0	99738BL-2	99757BS-0	99772BS-2	99801BS-2	M89417L
99580BS-0	99644BS-0	99669BS-2	99738BS-0	99757BS-2	99773ABS-0	99802BS-0	M89418
99580BS-2	99644BS-2	99670BL-0	99738BS-2	99757LBS-0	99773ABS-2	99802BS-2	M89422S
99581BS-0	99645BS-0	99670BL-2	99738SBS-0	99757LBS-2	99773BBS-2	99819BS-0	M89423
99581BS-2	99645BS-2	99671BL-0	99738SBS-1	99759ABS-0	99773BS-0	99819BS-2	M89424
99581LBS-0	99646BS-0	99671BL-2	99738SBS-2	99759ABS-2	99773BS-2	99820BS-0	M89426
99581LBS-2	99646BS-2	99672BL-0	99739BS-0	99759BBS-0	99774ABS-0	99820BS-2	M89441L
99582BS-0	99647BS-0	99672BL-2	99739BS-2	99759BBS-2	99774ABS-2	99831BS-0	M89513S
99582BS-2	99647BS-2	99673BL-0	99740ABS-0	99759BS-0	99774BS-0	99831BS-2	M89516
99610BS-0	99648BS-0	99673BL-2	99740ABS-2	99759BS-2	99774BS-2	99840BS-0	M89517
99611BS-0	99648BS-2	99674BL-0	99740BS-0	99760BL-2	99775ABS-2	99840BS-2	M89522
99611BS-2	99649BS-0	99674BL-2	99740BS-2	99760BS-0	99775BL-2	99841BS-0	M89523L
99612BS-0	99649BS-2	99675BL-0	99741ABS-0	99760BS-2	99775BS-0	99841BS-2	M89525
99612BS-2	99650BL-0	99675BL-2	99741ABS-2	99760LBS-0	99775BS-2	99842BS-0	M89525S
99615BS-0	99650BL-2	99677BL-0	99741BL-2	99760LBS-2	99776BS-0	99842BS-2	M89526L
M96642SA	M97683-3P	P97685BS-1	97692BL-1				
M96642SB	M98051A	P97686BL-1	95673BL-1				
M96665A	M98051A-1	P97686BS-1	95674BL-1				
M96665LA	M98051A-1W	P97688BS-1	97693ABL-1				
M96665SA	M98079	P97689BS-1B	97693BL-1				
M96665SB	M98079ABL-1	P98628BS-1B	99756LDBS-0				

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號): C2680 BRASS

M96742A	M98673-2PW	P98655LBS-1B	96760SBS-0	M97641BL-1	P97681-2P	96466BS-2
M96742B	M98673A-2PW	P98655LBS-1W	96760SBS-2	M97641BL-1W	P97683-12PB	96704LBS-2
M96742SA	M98675-2P	P98662BS-1B	98689LBL-1	M97642	P97683-13PB	96704BS-2
M96742SB	M98675-2PW	P98662BS-1W	98783DBL-06	M97642BL-0	P97683-2P	95790BL-0
M96743A	M98675A-2P	P98673BS-1B	98768LBS-0	M97642BL-1W	P97683-3P	95690BL-1
M96743B	M98675A-2PW	P98673BS-1W		M97673-2PW	P97683ABL-1R	95691BL-1
M96743SA	M98732BL-0	P98675		M97673A-2PW	P97683ABS-1L	98655SBS-1
M96743SB	M98745-0	P98675-12PW		M97675-2P	P97683ABS-1R	95790ABL-1
M96765A	M98745P-0W1	P98675ABS-1B		M97675-2PW	P97683BL-1L	95692ABL-1
M96765B	M98793BL-0	P98675ABS-1W		M97675A-2P	P97683BL-1R	98479BL-0
M96765SA	M98793CBL-0	P98675BS-1		M97675A-2PW	P97683BS-1L	97650ABL-0
M96765SB	M98795AP-X	P98675BS-1B		M97681-2P	P97683BS-1R	97691BL-1
M96771	M98795A-X	P98675BS-1W		M97683-2P	P97685ABS-1	97691ABL-1
M96771S	M98796A-X	P98675BS-2PW				
M96771SA	M98797BL-0	P98675BS-A1				
M96772	P97605BL-1B	P98675E-2PW				
M96772S	P97626BS-1	S114B175B2-2				
M96780L	P97628BS-1B	S114B270B2-2				
M96780S	P97628BS-1W	S98811BL-03				
M97626	P97631BL-1B	S98811BL-04				
M97626A	P97631BS-1B	SS120PCB-001-2.0				
M97631BL-1	P97640A-1B	SS120PCB-002-2.0				
M97632BL-1	P97640BL-1B	99486ALBS-2				
M97634	P97640BL-1W	99486ASBS-2				
M97634A	P97640BS-1B	96064ABS-2				
M97634ABL-0	P97658BBS-1B	96064ALBS-2				
M97635	P97658BL-1	99033ABS-2				
M97635A	P97658BS-1	97607SBS-1				
M97635ABL-0	P97658BS-1W	99164LBS-0				
M97636BL-1	P97661	99164LBS-2				
M97636-X	P97661BS-1B	P97668-2PB				
M97637BL-1	P97662-2PW	P97668-2PW				
M97637-X	P97662BS-1B	P97669-2PW				
M97639BL-1	P97670-2P	P97669-2PB				
M97640BL-1B	P97670A-2P	95680ABS-1				
M97640BL-1W	P97675A	98578LBS-0				
M97640UBL-0G	P97675ABS-1B	96064BS-2				
M97640UBL-1G	P97675BS-1	96064LBS-2				
M97640UBL-1W	P97675BS-1B	97772BL-0				
M97641	P97675BS-1W	95767BS-0				
M97641ABL-1	P97675BS-2PW	97773BL-0				
M97641BL-0	P97676LBS-1B	96467BS-2				

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## Test Report

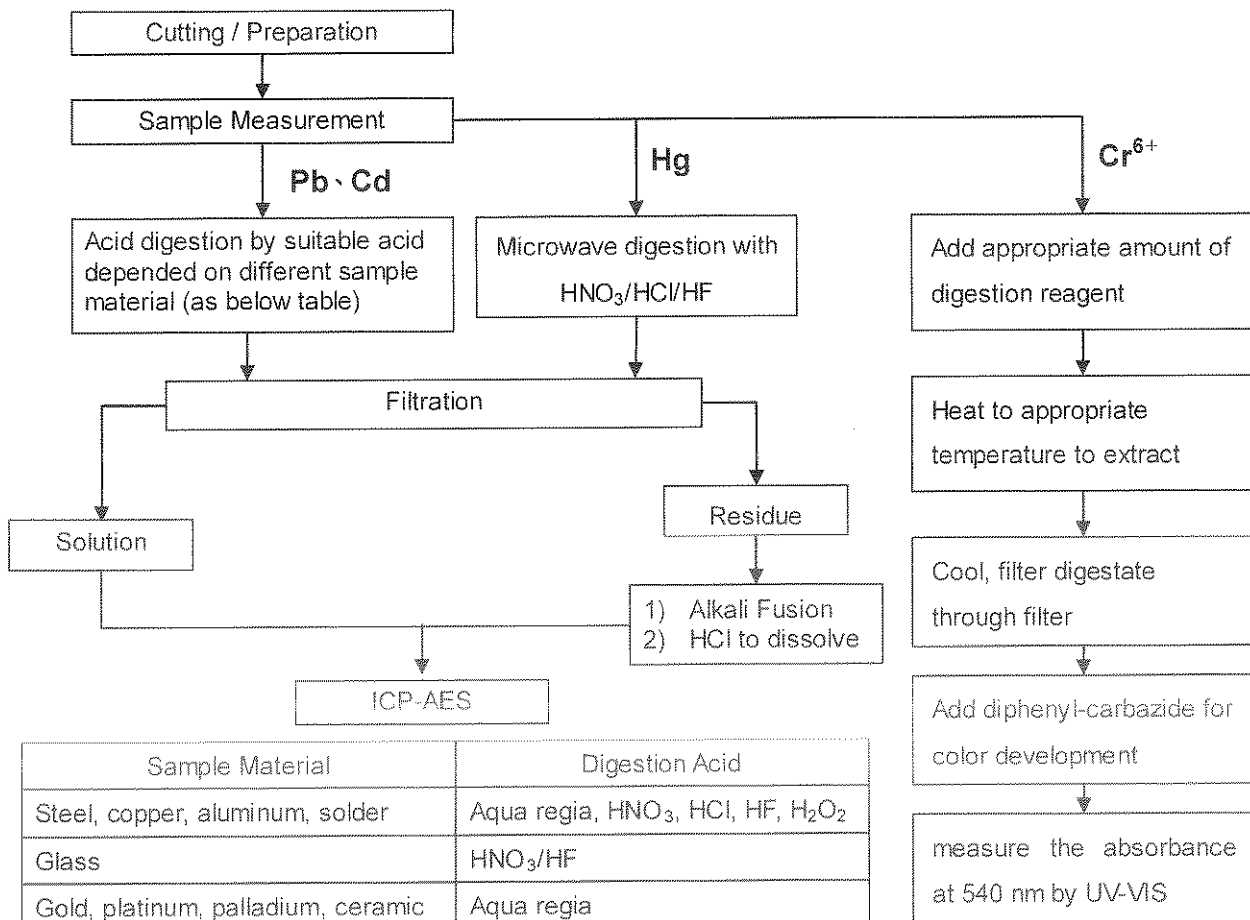
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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



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



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

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GEM TERMINAL IND. CO., LTD.

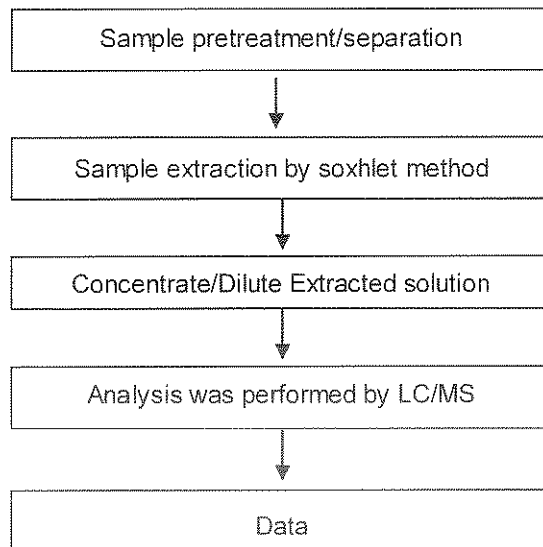
NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



### Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA、Benzotriazole



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\*\* End of Report \*\*

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NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN




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

Sample Description : NICKEL-PLATING  
SGS Ref No. : SZ12877474-23.21  
Style/Item No. : PLEASE REFER TO PAGE 4 TO 8  
Sample Receiving Date : 2010/12/15  
Testing Period : 2010/12/15 TO 2010/12/21

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

Conclusion : Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury and Hexavalent Chromium Cr(VI) comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

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

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NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



## Test Result(s)

PART NAME No.1 : PLATING LAYER OF SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 6)	0.02mg/kg with 50 cm <sup>2</sup> surface area	Negative	#
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	µg/m <sup>2</sup>	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	1	n.d.	-
PFOA (CAS No.: 000335-67-1)	µg/m <sup>2</sup>	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	1	n.d.	-

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NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



## Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. \*\* = Qualitative analysis (No Unit)
6. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;  
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

### Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;  
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.

7. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement.  
Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement.

## PFOS Reference Information : Directive 2006/122/EC

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m<sup>2</sup> of the coated material.

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GEM TERMINAL IND. CO., LTD.  
NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



Style/Item No. :

貨號(產品編號)	C2680-NI	C5191-NI	C3601-NI		
34RF190TSX RF190TSX	95688BL-1	97623BS-1	97670BL-1R	98230BS-1	98478BL-1
34RF190VX RF190VX	95689BL-1	97624BS-1	97673BBL-1	98231BS-1	98478BS-1
91100BL-1	95701BL-1	97628ABS-1	97673BBL-1L	98232BS-1	98478CBL-1
91301BL-1	95765BL-1	97628BS-1	97673BBL-1R	98235BS-1	98478CBS-1
92010-315	95788BL-1	97628BS-1A4	97673BBS-1	98236BS-1	98479BS-1
92010BS-1	95789BL-1	97629BL-1	97673BL-1	98238BS-1	98482BS-1
92010LBS-1	96147KS-1	97630BS-1	97673BL-1L	98238PS-1	98484BS-1
92064BS-1	96634BS-2	97632BL-1	97673BL-1R	98249BL-1	98550BS-1
92067BS-1	96714BS-1	97632BS-1	97673BS-1	98249BS-1	98575ABS-1
92067SBS-1	96714BS-1C	97641ABL-1	97673BS-1A1	98276BS-1	98575BBS-1
92517BL-1	96730PS-1	97641BL-1	97674BS-1	98277BS-1	98575BS-1
92517BS-1	96745AKS-1	97641DBL-1	97675ABS-1	98281BS-1	98575LBS-1
92517PL-1	96747APS-1	97641EBL-1	97675BBL-1	98300BS-1	98575PS-1
92517PS-1	96747LAPS-1	97642BL-1	97675BBS-1	98311BS-1	98580BL-1
92518BL-1	96747LPS-1	97646BS-1	97675BBS-A1	98340BS-1	98601BS-1
92518PL-1	96747PS-1	97647BS-1	97675BL-1	98350BS-1	98602BS-1
92519PL-1	96762KS-1	97648BS-1	97675BL-1L	98400BS-1	98604BS-1
92519PS-1	96776BS-1	97649BL-1	97675BL-1R	98401BS-1	98605BS-1
92520BL-1	96776KS-1	97654BL-1	97675BS-1	98401SBS-1	98606BL-1
92521BL-1	96781BS-1	97655BL-1	97675BS-1A1	9841(3.5)BS-1	98607BL-1
92522BL-1	96782BS-1	97656BL-1	97675BS-A1	98413BS-1	98611BL-1
92523BL-1	96782KS-1	97657BL-1	97675SBS-1	98415BS-1	98612BL-1
93741AKS-1	97470ABL-1	97657BS-1	97678BS-1	98416BS-1	98615BL-1
93747PS-1	97470BL-1	97660BS-1	97679BS-1	98422BS-1	98617ABL-1
95603ABL-1	97475BS-1	97661BBL-1	97680BL-1	98424BS-1	98617BL-1
95603BBL-1	97478BL-1	97661BBL-1L	97680BS-1	98424SBS-1	98618ABL-1
95604BL-1	97603ABL-1	97661BBS-1	97681BL-1	98425BS-1	98618BL-1
95604LBL-1	97603BBL-1	97661BBS-1B3	97681BS-1	98426BS-1	98625ABS-1
95605BL-1	97606BS-1	97661BL-1	97682BL-1	98430BS-1	98625BBS-1
95605LBL-1	97606SBS-1	97661BL-1L	97682BS-1	98438ABS-1	98625BS-1
95606BL-1	97607BS-1	97661BL-1R	97684BS-1	98438BS-1	98625-BSA1
95606LBL-1	97607SBS-1	97661BS-1	97690BL-1	98470ABL-1	98625BS-A1
95609BL-1	97608BL-1	97661BS-1A1	97693BL-1	98470ABS-1	98625LBS-1
95609LBL-1	97609BL-1	97661HBS-1	97714APS-1	98470BL-1	98625LBS-1A1
95610BL-1	97610BL-1	97662BBL-1	97714PS-1	98470SBL-1	98626BS-1

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貨號(產品編號)	C2680-NI	C5191-NI	C3601-NI		
95610LBL-1	97611BL-1	97662BBL-1R	97764BL-1	98472BL-1	98627LBS-1
95611BL-1	97611BS-1	97662BBS-1	97764BS-1	98473BS-1	98628BS-1
95614BL-1	97612ABL-1	97662BBS-1A3	97764SBL-1	98473LBS-1	98630BL-1
95614LBL-1	97612BL-1	97662BBS-1A4	97780BL-1	98474BL-1	98630BS-1
95653ABS-1	97613BL-1	97662BBS-1A6	97780SBL-1	98474BS-1	98635BS-1
95653BS-1	97614BL-1	97662BL-1	98101BS-1	98474LBS-1	98638BS-1
95654BL-1	97615BL-1	97662BL-1L	98110BL-1	98474SBS-1	98639BS-1
95655BL-1	97616BL-1	97662BL-1R	98110BS-1	98475ABL-1	98642BS-1
95656BL-1	97617BS-1	97662BS-1	98150BS-1	98475ABS-1	98643BS-1
95657BL-1	97619ABS-1	97662BS-1A1	98160BS-1	98475BL-1	98644BBS-1
95658BL-1	97619BL-1	97662BS-1A3	98161BL-1	98475BS-1	98644BS-1
95659BL-1	97619BS-1	97662BS-1A4	98167BS-1	98476BS-1	98645BBS-1
95675BL-1	97621BL-1	97662HBS-1	98190BS-1	98477BS-1	98645BS-1
95676BL-1	97621BS-1	97668BL-1L	98191BS-1	98478ABL-1	98646BS-1
95680BS-1	97621LBL-1	97669BL-1L	98200BS-1	98478ABS-1	98647BS-1
95681BL-1	97621LBS-1	97669BL-1R	98220BS-1	98478BBL-1	98648BBS-1
95687BL-1	97622BS-1	97670BL-1L	98223BS-1	98478BBS-1	98648BS-1
98650BL-1	98661BBL-1L	98673BL-1L	98699BS-1	99675BL-1	B97640ABS-1
98650BS-1	98661BBS-1	98673BL-1R	98699CBS-1	99679BS-1	B97658BBS-1
98651ABL-1	98661BL-1	98673BS-1	98699LBS-1	99679KS-1	B97658BS-1
98651APC-VDE	98661BL-1L	98673HBS-1	98702APS-1	99738SBS-1	B97675BS-1
98651A-UE1	98661BL-1R	98674BS-1	98702PS-1	99741BS-1	B97685ABS-1
98651A-VDE	98661BL-R	98675BBL-1	98706BL-1	99741PS-1	B97685BS-1
98651B-VDE	98661BS-1	98675BBS-1	98706BS-1	99745PS-1	B97686BL-1
98651C-VDE	98661CBS-1	98675BBS-B1	98709BS-1	99754BS-1	B98675BS-1
98651E-VDE	98662ABS-1	98675BL-1	98714APS-1	99764BS-1	M88051
98651E-VDE1	98662BBL-1	98675BL-1L	98714PS-1	99764KS-1	M88051A-1B
98651FBL-1	98662BBL-1R	98675BL-1R	98715APS-1	99789PS-1	M88051BL-1B
98651LL-VDE	98662BBS-1	98675BS-1	98715BS-1	99797PS-1	M88051BL-1W
98651L-VDE	98662BL-1	98675BS-1A1	98715PS-1	99850BS-1	M88051BL-A1B
98651M-VDEB	98662BL-1L	98676BS-1	98722PS-1	99860BS-1	M88051KBL-1B
98651M-VDEW	98662BL-1R	98677BBS-1	98732APS-1	99866BS-1	M88051KF-1B
98651-VDE1	98662BS-1	98677BS-1	98732BS-1	A66650SAC-1	M88051L-1B
98652BL-1	98663BBL-1	98678BL-1	98732PS-1	A66650SC-1	M88051LBL-1B
98652BS-1	98663BBS-1	98678BS-1	98733PS-1	A95001-1	M88051LBL-3
98653BS-1	98663BS-1	98679BL-1	98735BL-1	A95002-1	M88051PL-1B

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# Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號)	C2680-NI	C5191-NI	C3601-NI		
98654ABL-1	98664BBL-1	98679BS-1	98735PL-1	A95003-1	M88051PL-1BMT
98654ABS-1	98664BBS-1	9867BS-1A1	98739BS-1	A95004-1	M88052BL-1B
98654ASBS-1	98664BS-1	98680BBS-1	98741PS-1	A95005-1	M88052BL-1W
98654BL-1	98665BBL-1	98680BS-1	98749BS-1	A95005A-1	M88052PL-1
98654BS-1	98665BBS-1	98681ABL-1	98750BS-1	A95006-1	M88052PL-1B
98654SBL-1	98665BBS-1A1	98681ABS-1	98752BS-1	A95006A-1	M88052PL-1BMT
98654SBS-1	98665BBS-1B1	98681BL-1	98755BS-1	A95007-1	M88053BL-1B
98655LBL-1	98665BS-1	98681BS-1	98755LBS-1	A95008-1	M88053BL-1W
98655LBS-1	98666BBL-1	98682BS-1	98757BS-1	A95009-1	M88054BL-1B
98655LRBS-1	98666BBS-1	98683BS-1	98758BS-1	A95010-1	M88054BL-1W
98655SBL-1	98666BBS-1A1	98684BS-1	98759BS-1	A95012-1	M97631BL-1
98655SBS-1	98666BBS-1B1	98685BS-1	98767BS-1	A95012L-1	M97632
98655SRBS-1	98666BS-1	98687BS-1	98768BS-1	A95020-1	M97632BL-1
98657ABL-1	98666BS-1A1	98688BS-1	98769BS-1	A95021-1	M97634A
98657ABS-1	98666BS-1GE	98689BL-1	98775BL-1	A97004-1	M97636BL-1
98657ARBS-1	98667BBS-1	98689BS-1	98775PL-1	A97005-1	M97639BL-1
98657BL-1	98667BS-1	98690BS-1	98810ABL-1	A97023-1	M97640BL-1B
98657BS-1	98668BBS-1	98691BS-1	98870BS-1	A97670BL-0L	M97640BL-1W
98657HBL-1	98668BS-1	98692BBS-1	988810ABS-1	A97670BL-0R	M97640UBL-1G
98657HBS-1	98669BBS-1	98692BS-1	988870BS-1	A98004-1	M97641ABL-1
98658ABL-1	98669BS-1	98693ABL-1	99134ABS-1	A98004S-1	M97641BL-1
98658ABS-1	98670BBS-1	98693ABS-1	99134LBS-1	A98011LL-1	M97641BL-1W
98658BL-1	98670BS-1	98693BBL-1	99150BS-1	A98011LLB-1	M97642BL-1
98658BS-1	98671BL-1	98693BL-1	99163BS-1	A98016LL-1	M97642BL-1W
98659BL-1	98671BS-1	98693BS-1	99432ABS-1	A98016LLA-1	M97673-2PW
98659BS-1	98671LBS-1	98694BS-1	99438BS-1	A98021-1	M97673A-2PW
98659SABS-1	98671LBS-1	98695BBL-1	99441BS-1	A98021L	M97681-2P
98659SBL-1	98672BL-1	98695BBS-1	99445BS-1	A98028-1	M97683-2P
98659SBS-1	98672BS-1	98695BS-1	99453BS-2	A98053LA-1	M97683-3P
98659SBS-1GEM	98673BBL-1	98695LBS-1	99471BS-1	A98053LB-1	M98050C-1B
98659S-GEM	98673BBL-1L	98695SBS-1	99472KS-1	A98059L-1	M98050C-1W
98661ABL-1	98673BBL-1R	98696BS-1	99477BS-1	A98059LA-1	M98051A-1
98661ABS-1	98673BBS-1	98697BS-1	99481BS-1	A98092L-1	M98051A-1W
98661BBL-1	98673BL-1	98699BBS-1	99629BS-1	B97628BS-1	M98051A-A1
M98052A-1	P97661BS-1	P98003P-UE	P98020B-1B	P98058A	P98073P-1

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# Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號)	C2680-NI	C5191-NI	C3601-NI		
M98072P-1B	P97661BS-1B	P98003P-UEW	P98020B-1W	P98058A-1B	P98073P-G
M98079ABL-1	P97662-2PB	P98003S	P98020BP-1B	P98058B-1B	P98077A-1B
M98673-2PW	P97662-2PW	P98003S-1	P98020BP-1W	P98059	P98077A-1W
M98673A-2PW	P97662B-2PW	P98003S-1W	P98020CP-1B	P98059-1W	P98077P
M98774	P97662BS-1B	P98005P	P98020CP-1W	P98059A-1	P98077P-1A0W
M98774-1W	P97669-2PB	P98005P-1	P98020P	P98059A-1B	P98077P-1W
M99927S-1	P97669-2PW	P98005PS-1B	P98020P-1	P98059A-1W	P98077S
M99927SS-1	P97670-2P	P98005PS-1W	P98021-3P	P98059L-1B	P98081-1B
P88051A-1BMT	P97670-2PW	P98007AP-1B	P98022A	P98059L-1W	P98081-1W
P88051A-IYL	P97670A-2P	P98007AP-1W	P98022A-1	P98059P-1	P98081P-1B
P88051L-1B	P97675-2PW	P98007P	P98022E-1B	P98059P-1W	P98081P-1W
P95020-3P	P97675ABS-1B	P98007P-1	P98022E-1W	P98060	P98084-1B
P95021-3P	P97675ABS-1W	P98007P-1W	P98024-1B	P98060-1	P98086-2PB
P97002-1B	P97675B-2PW	P98008A-1B	P98024-1W	P98060-1W	P98086-2PW
P97002-1W	P97675BS-1W	P98008P-1B	P98025	P98060A-1	P98086A-2PB
P97003P-1B	P97681-2P	P98008P-1W	P98030A-1	P98060A-1B	P98086A-2PW
P97003P-1W	P97683-2P	P98009P-1B	P98030P	P98060A-1W	P98086B-2PB
P97005-1B	P97683-3P	P98009P-1W	P98030P-1	P98060AL-1B	P98087-2PB
P97005-1W	P97683ABL-1R	P98010-1B	P98032	P98060AL-1W	P98087-2PW
P97010A-1B	P97683ABS-1L	P98010-1W	P98032A-1B	P98060L	P98090A
P97010A-1W	P97683ABS-1R	P98010A-1B	P98032A-B	P98061	P98090B
P97011A-1B	P97683BL-1L	P98010A-1W	P98043-1B	P98061-1B	P98090B-1
P97011A-1W	P97683BL-1R	P98010A-2PW	P98043-1W	P98061-1W	P98090C-1B
P97015B-1B	P97683BS-1L	P98010C	P98043A-1W	P98062	P98090C-1W
P97016A-1W	P97683BS-1R	P98010E-1B	P98043AP-1B	P98062-1B	P98090P
P97016B-1B	P97685ABS-1	P98010E-1W	P98043AP-1W	P98065P-1B	P98090P-1
P97016B-1W	P97685BS-1	P98010L-1B	P98043J-1B	P98065P-1W	P98092-1B
P97016E-1B	P97686BL-1	P98010L-1W	P98043J-1W	P98065P-2PB	P98092-1W
P97016E-1W	P97688BS-1B	P98013-1B	P98043PM-1B	P98065P-2PW	P98092A-1B
P97017-1B	P97689BS-1B	P98013-1W	P98043PM-1W	P98065P-3PB	P98092A-1W
P97017-1W	P98000-1B	P98013A-1B	P98043S-1B	P98065P-3PW	P98092LP-1W
P97040-1W	P98000-1W	P98013A-1W	P98043S-1W	P98068-B	P98092P
P97041-1W	P98000A-1B	P98013B-1B	P98053A-1	P98068P	P98092P-1W
P97042-1W	P98000A-1W	P98015-1B	P98053A-1B	P98068P-W	P98092S-1B
P97043-1W	P98000B-1B	P98015-1W	P98053A-B	P98069P-1B	P98093-1B
P97044-1W	P98000B-1W	P98015A-1B	P98053L-1B	P98069P-1W	P98093A-1BF

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# Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號)	C2680-NI	C5191-NI	C3601-NI		
P97045-1W	P98000F	P98015A-1F	P98053L-1W	P98070	P98093A-1WF
P97063-1B	P98000PS-1W	P98015A-1W	P98054A	P98070-1B	P98093S-1B
P97063-1W	P98003A	P98015LL-1W	P98054A-1B	P98070P-1W	P98095-1B
P97605BL-1B	P98003B	P98015LLA-1W	P98055	P98071P-1B	P98095-1W
P97626BS-1	P98003B-1	P98016A-1W	P98055-1B	P98071P-1W	P98622BS-1W
P97628BS-1B	P98003B-1W	P98017P	P98055-1W	P98072P-1B	P98628BS-1B
P97628BS-1W	P98003B-2	P98017P-1	P98057	P98072P-1W	P98655LBS-1B
P97631BL-1B	P98003BP-2	P98017PS-1B	P98057-1	P98073B	P98655LBS-1W
P97631BS-1B	P98003C-1W	P98017PS-1W	P98057-1W	P98073C	P98661BS-1B
P97640A-1B	P98003P	P98019-1B	P98057A	P98073C-1	P98662B-2PW
P97640BL-1B	P98003P-1	P98019-1W	P98057A-1B	P98073D	P98662BS-1B
P97640BS-1B	P98003P-1GN	P98020-1B	P98057A-1W	P98073D-1B	P98662BS-1W
P97658BBS-1	P98003PS	P98020-3P	P98057P	P98073E-2PB	P98673BS-1B
P97658BL-1	P98003PS-1	P98020AP-1B	P98058	P98073F-1B	P98675
P97658BS-1	P98003PS-1B	P98020AP-1W	P98058-1	P98073F-1W	P98675A-1B
P97658BS-1W	P98003PS-1W	P98020AS-1B	P98058-1W	P98073P	P98675A-1W
P98675ABS-1B	P98675BS-1W	P98774	RF190J-002AAA	S88052-1W	S88053B-1B
P98675B-2PW	P98675BS-A1	P98774-1W	RF190TSX	S88053-1B	S88054B-1B
P98675BS-1B	P98675E-2PW	RF190J-001A	RF190VX	S88053-1W	S88054B-1W
S88054E-1B	P98039-1B	P97692-1B			
S88054E-1W	P98039-1W	P97692-1W			
S98811BL-03	P98037-1W	98689LBL-1			
S98811BL-04	P98037-1B	P97032-1WF			
SS120PCB-001-2.0	P97675BS-1B	P97032-1BF			
SS120PCB-002-2.0	P97668-2PB	P97027-1WF			
P97668-2PW	P98088-2P	P97027-1BF			
P97669-2PW	P98088-2PW	M88053D-B			
P97669-2PB	98655SBS-1	M88053A-1B			
95680ABS-1	97691BL-1				
95690BL-1	97691ABL-1				
95691BL-1	97692BL-1				
95790ABL-1	95673BL-1				
95692ABL-1	95674BL-1				

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## Test Report

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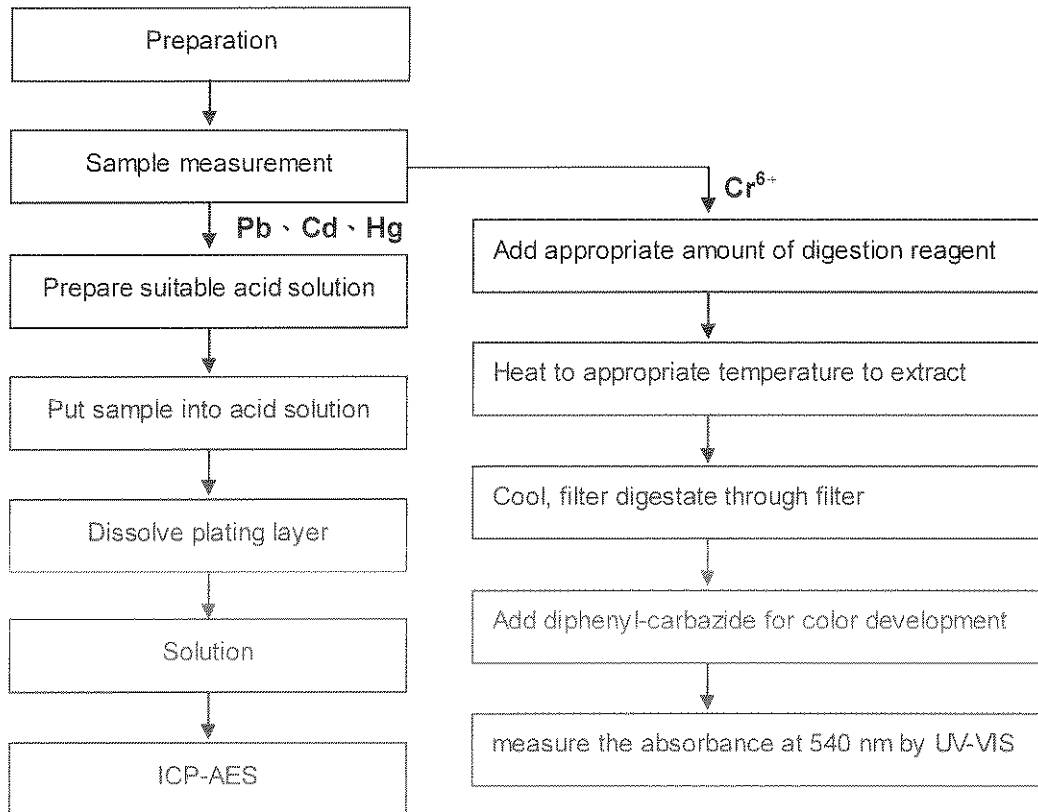
GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



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

### Flow Chart of Stripping method for metal analysis



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## Test Report

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GEM TERMINAL IND. CO., LTD.

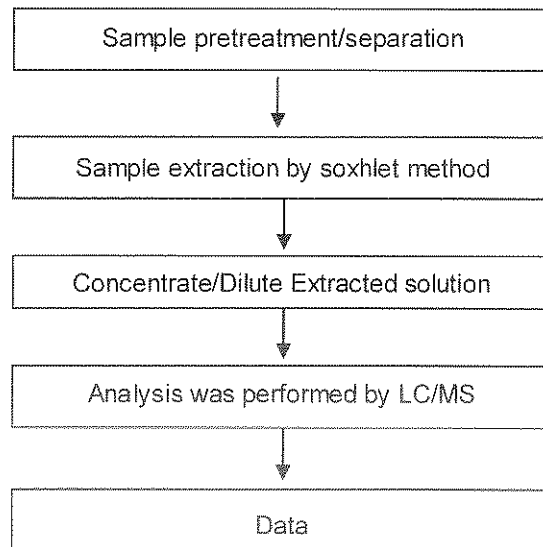
NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



### Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA、Benzotriazole



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## Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



\*\* End of Report \*\*

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## Test Report

No. : CE/2010/C2879 Date : 2010/12/21 Page : 1 of 15

GEM TERMINAL IND. CO., LTD.  
NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN




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

Sample Description : NL66-V0  
SGS Ref No. : SZ12877474-23.11  
Style/Item No. : PLEASE REFER TO PAGE 6 TO 8  
Sample Receiving Date : 2010/12/15  
Testing Period : 2010/12/15 TO 2010/12/21

=====  
Test Result(s) : Please refer to next page(s).

Conclusion : 1. Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.  
2. Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category 1) of ZEK 01.2-08 of German ZLS and its amendments.

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

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# Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



## Test Result(s)

PART NAME No.1 : WHITE PLASTIC PELLETS

Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	-
PFOA (CAS No.: 000335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	-
<b>Phthalates</b>					
BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)			0.003	n.d.	-
DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)			0.01	n.d.	-
DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)			0.01	n.d.	-
DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)			0.003	n.d.	-
DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)			0.003	n.d.	-
DNHP (Di-n-hexyl phthalate) (CAS No.: 000084-75-3)			0.003	n.d.	-

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# Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
<b>Polynuclear Aromatic Hydrocarbons (PAHs)</b>					
Acenaphthene (CAS No.: 000083-32-9)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.	-
Acenaphthylene (CAS No.: 000208-96-8)			0.2	n.d.	-
Anthracene (CAS No.: 000120-12-7)			0.2	n.d.	-
Benzo[a]anthracene (CAS No.: 000056-55-3)			0.2	n.d.	-
Benzo[a]pyrene (CAS No.: 000050-32-8)			0.2	n.d.	-
Benzo[b]fluoranthene (CAS No.: 000205-99-2)			0.2	n.d.	-
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)			0.2	n.d.	-
Benzo[k]fluoranthene (CAS No.: 000207-08-9)			0.2	n.d.	-
Chrysene (CAS No.: 000218-01-9)			0.2	n.d.	-
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)			0.2	n.d.	-
Fluoranthene (CAS No.: 000206-44-0)			0.2	n.d.	-
Fluorene (CAS No.: 000086-73-7)			0.2	n.d.	-
Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5)			0.2	n.d.	-
Naphthalene (CAS No.: 000091-20-3)			0.2	n.d.	-
Phenanthrene (CAS No.: 000085-01-8)			0.2	n.d.	-
Pyrene (CAS No.: 000129-00-0)			0.2	n.d.	-
<b>Sum of 16 PAHs</b>	-	n.d.	-		

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# Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
<b>Halogen</b>					
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)			50	n.d.	-
Halogen-Bromine (Br) (CAS No.: 010097-32-2)			50	n.d.	-
Halogen-Iodine (I) (CAS No.: 014362-44-8)			50	n.d.	-
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
Monobromobiphenyl			5	n.d.	-
Dibromobiphenyl			5	n.d.	-
Tribromobiphenyl			5	n.d.	-
Tetrabromobiphenyl			5	n.d.	-
Pentabromobiphenyl			5	n.d.	-
Hexabromobiphenyl			5	n.d.	-
Heptabromobiphenyl			5	n.d.	-
Octabromobiphenyl			5	n.d.	-
Nonabromobiphenyl			5	n.d.	-
Decabromobiphenyl			5	n.d.	-
<b>Sum of PBDEs</b>			-	n.d.	1000
Monobromodiphenyl ether			5	n.d.	-
Dibromodiphenyl ether			5	n.d.	-
Tribromodiphenyl ether			5	n.d.	-
Tetrabromodiphenyl ether			5	n.d.	-
Pentabromodiphenyl ether			5	n.d.	-
Hexabromodiphenyl ether			5	n.d.	-
Heptabromodiphenyl ether			5	n.d.	-
Octabromodiphenyl ether	5	n.d.	-		
Nonabromodiphenyl ether	5	n.d.	-		
Decabromodiphenyl ether	5	n.d.	-		

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GEM TERMINAL IND. CO., LTD.  
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### Note :

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

### Reference information for PAHs:

#### Requirement of ZEK 01.2-08 : Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Materials in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months.	Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1.	Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact.
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 16 EPA-PAH (mg/kg)*	<MDL (<0.2)**	10	200

### Remark :

- \* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs
- \*\* = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

### PFOS Reference Information : Directive 2006/122/EC

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m<sup>2</sup> of the coated material.

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



Style/Item No. : 貨號(產品編號) NL66-V0

2033-02P	2042-06P	2051-02P	2053-04R	2084-13P	2085-13RF
2033-03P	2042-06PK	2051-02RF	2053-05P	2084-13R	2085-14P
2033-04P	2042-06R	2051-03P	2053-05R	2084-13RF	2085-14R
2033-05P	2042-06RF	2051-03RF	2053-06P	2084-14P	2085-14RF
2033-06P	2042-07P	2051-04P	2053-06R	2084-14R	2085-15P
2033-07P	2042-07R	2051-04RF	2053-07P	2084-14RF	2085-15R
2033-08P	2042-07RF	2051-05P	2053-07R	2084-15P	2085-15RF
2033-09P	2042-08P	2051-05RF	2053-08P	2084-15R	7675BA-2P
2033-10P	2042-08R	2051-06P	2053-08R	2084-15RF	7675CP-2PW
2033-11P	2042-08RF	2051-06RF	2053-09P	2084-16P	7742-3P
2033-12P	2042-09P	2051-07P	2053-09R	2084-16R	7742A-3P
2033-13P	2042-09R	2051-07RF	2053-10P	2084-16RF	8654BN-3P
2033-14P	2042-09RF	2051-08P	2053A-03P	2085-02P	8655AN-3P
2033-15P	2042-10P	2051-08RF	2084-02P	2085-02RF	8655ANA-3P
2033-16P	2042-10R	2051-09P	2084-02R	2085-03P	8655BNA-2P
2040-02RF	2042-10RF	2051-09RF	2084-02RF	2085-03R	8655N1-3P
2040-03RF	2042-11P	2051-10P	2084-03P	2085-03RF	8655S-3P
2040-04RF	2042-11R	2051-10RF	2084-03R	2085-04P	8657-2PW
2040-05RF	2042-11RF	2051-11P	2084-03RF	2085-04R	8657P-2PW
2040-06RF	2042-12P	2051-11RF	2084-04P	2085-04RF	8661AN-2P
2040-07RF	2042-12R	2051-12P	2084-04R	2085-05P	8661AN-2PV0
2040-08RF	2042-12RF	2051-12RF	2084-04RF	2085-05R	8661AN-3P
2040-09RF	2042-13P	2051-13P	2084-05P	2085-05RF	8661AN-3PV0
2040-10RF	2042-13R	2051-13RF	2084-05R	2085-06P	8681-3P(NL)
2040-11RF	2042-13RF	2051-14P	2084-05RF	2085-06R	8681-3PB
2040-12RF	2042-14P	2051-14RF	2084-06P	2085-06RF	8681B-2P
2040-13RF	2042-14R	2051-15P	2084-06R	2085-07P	8681B-2PW
2040-14RF	2042-14RF	2051-15RF	2084-06RF	2085-07R	8745AN-2PV0
2040-15RF	2042-15P	2051-16P	2084-07P	2085-07RF	8745D
2040-16RF	2042-15R	2051-17P	2084-07R	2085-08P	8745N
2040-17RF	2042-15RF	2051-18P	2084-07RF	2085-08R	8745N-2PW
2040-18RF	2042-16P	2051-19P	2084-08P	2085-08RF	9030-3PK
2040-19RF	2042-16R	2051-20P	2084-08R	2085-09P	9030-4PK

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號)	NL66-V0				
2040-20RF	2042-16RF	2051-2P	2084-08RF	2085-09R	9030-6PK
2042-02P	2042-17P	2051-3P	2084-09P	2085-09RF	9123-9RK
2042-02R	2042-17R	2051-4P	2084-09R	2085-10P	9130-6RK
2042-02RF	2042-17RF	2051-5P	2084-09RF	2085-10R	9631-2PK41
2042-03P	2042-18P	2051-6P	2084-10P	2085-10RF	9631-3PK41
2042-03R	2042-18R	2051-7P	2084-10R	2085-11P	9631-4PK41
2042-03RF	2042-18RF	2051-8P	2084-10RF	2085-11R	9631-6PK41
2042-04P	2042-19P	2051-9P	2084-11P	2085-11RF	9631-9PK41
2042-04R	2042-19R	2053-02P	2084-11R	2085-12P	9731-2RK41
2042-04RF	2042-19RF	2053-02R	2084-11RF	2085-12R	9731-3RK41
2042-05P	2042-20P	2053-03P	2084-12P	2085-12RF	9731-4RK41
2042-05R	2042-20R	2053-03R	2084-12R	2085-13P	9731-6RK41
2042-05RF	2042-20RF	2053-04P	2084-12RF	2085-13R	9731-9RK41
M98050-1W	2084-08P				
P88051E-B	2084-09P				
P88051E-BV0	2084-10P				
P88051E-FUS	2084-11P				
P88051E-MTW	2084-12P				
P88051E-UEB	2084-13P				
P88051E-W	2084-14P				
P88051E-WV0	2084-15P				
P88051F-BLF	2084-16P				
P88051F-KDK	7675BA-2P				
P98003N-1B	8681B-2P				
P98009N-1B	9030-3PK				
P98009N-1W	9030-4PK				
P98050A-W	9030-6PK				
P98051-1W	9130-6RK				
P98051E-BV0	P98003N-1B				
P98051E-CLO	P98009N-1B				
P98051E-DTB	P98009N-1W				
P98051E-JL	2053A-03P				
P98051E-KBS	P98051E-KBS				

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NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



貨號(產品編號)	NL66-V0
P98051E-LYVB	P98051E-CLO
P98051F-KDK	8745D
P98051W-FUW	8681-3PB
S7742-3P	8661AN-3P
2051-6P	P88051E-W
2051-7P	8745N
2051-8P	P88051E-B
2051-9P	P98051E-DTB
2051-10P	8661AN-2P
2051-11P	P98051W-FUW
2051-12P	
2051-13P	
2051-14P	
2051-15P	
2051-16P	
2051-20P	
2053-02P	
2053-03P	
2053-04P	
2053-05P	
2053-06P	
2053-07P	
2053-08P	
2053-09P	
2053-10P	
2084-02P	
2084-03P	
2084-04P	
2084-05P	
2084-06P	
2084-07P	

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## Test Report

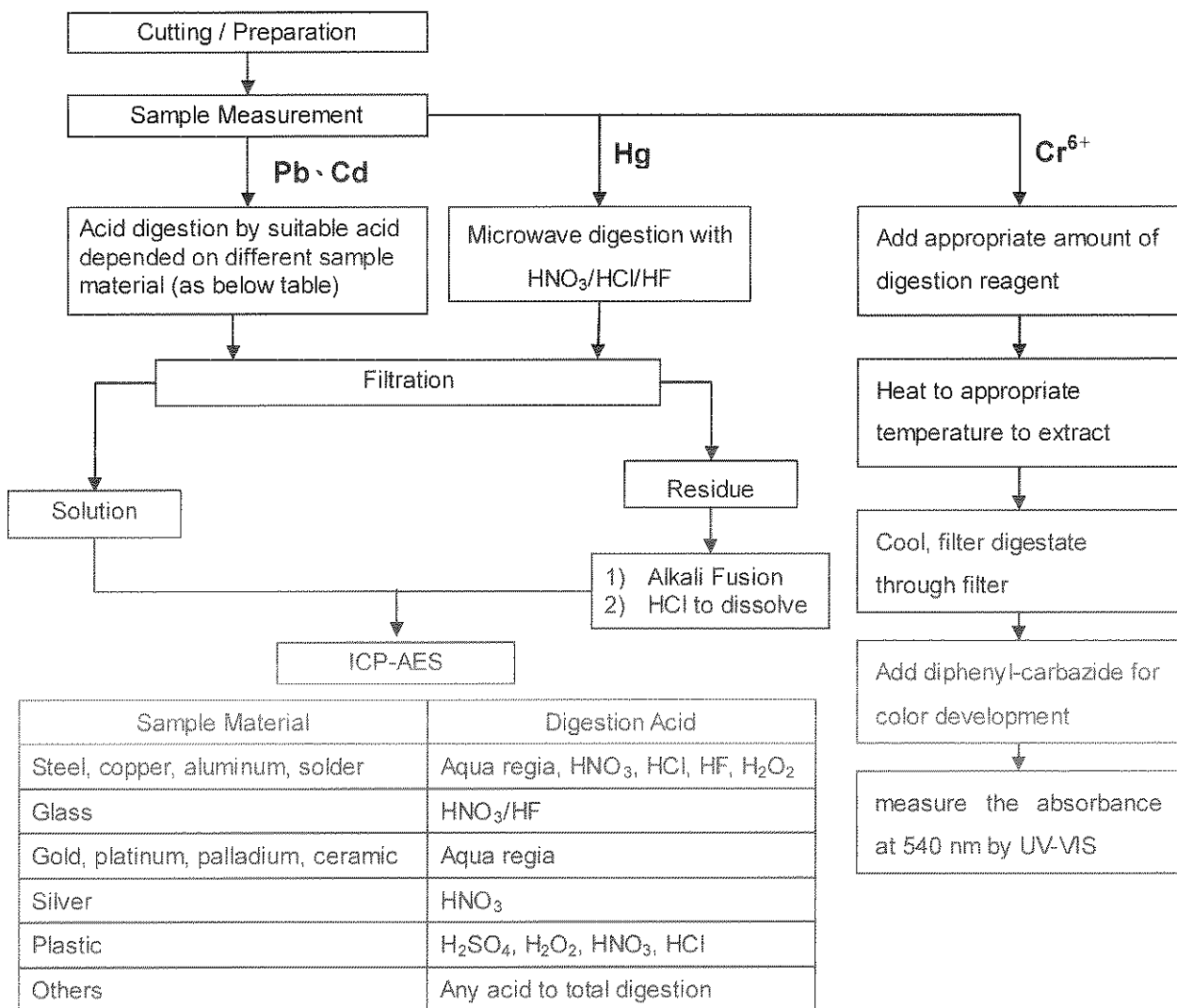
No. : CE/2010/C2879 Date : 2010/12/21 Page : 9 of 15

GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



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



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## Test Report

No. : CE/2010/C2879 Date : 2010/12/21 Page : 10 of 15

GEM TERMINAL IND. CO., LTD.

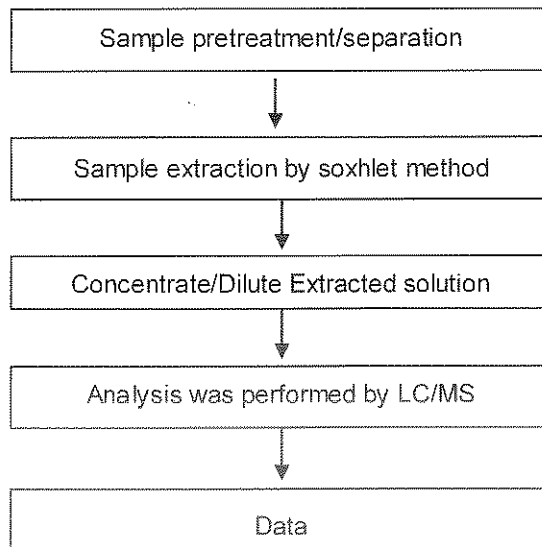
NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



### Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA、Benzotriazole



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## Test Report

No. : CE/2010/C2879 Date : 2010/12/21 Page : 11 of 15

GEM TERMINAL IND. CO., LTD.

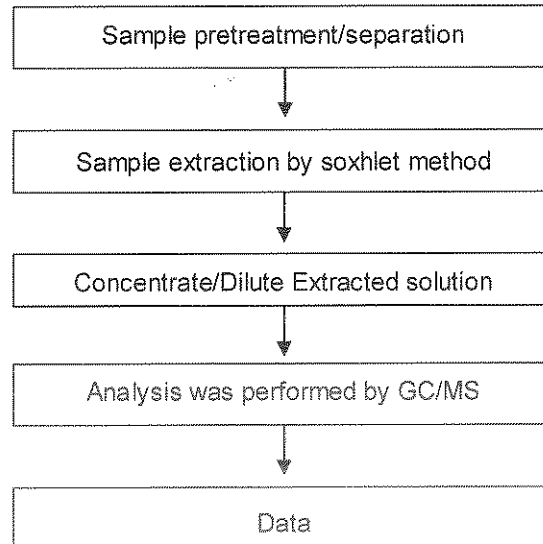
NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



### Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: Phthalate、Benzotriazole、HBCDD、NP、DBBT、  
Organic phosphorus compounds



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## Test Report

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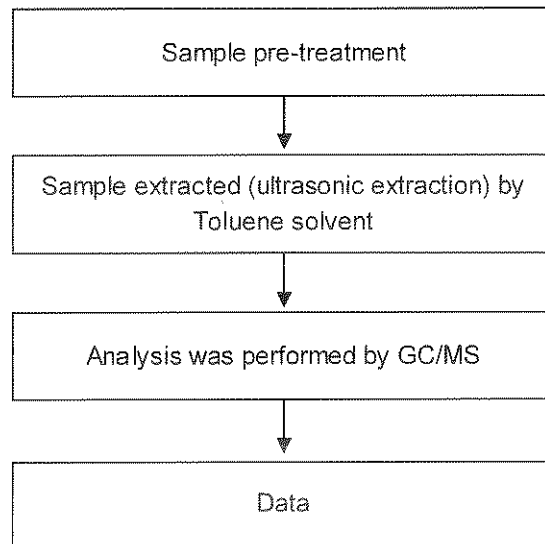
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NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



### PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 1) Name of the person who made measurement: Andy Shu
- 2) Name of the person in charge of measurement: Shinjyh Chen



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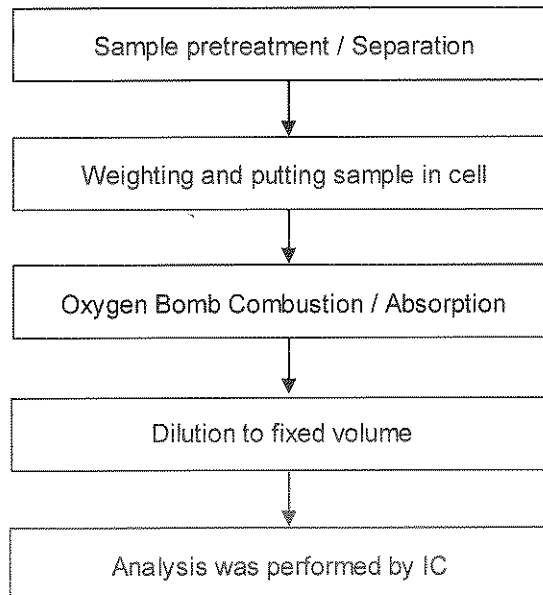
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### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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## Test Report

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GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN

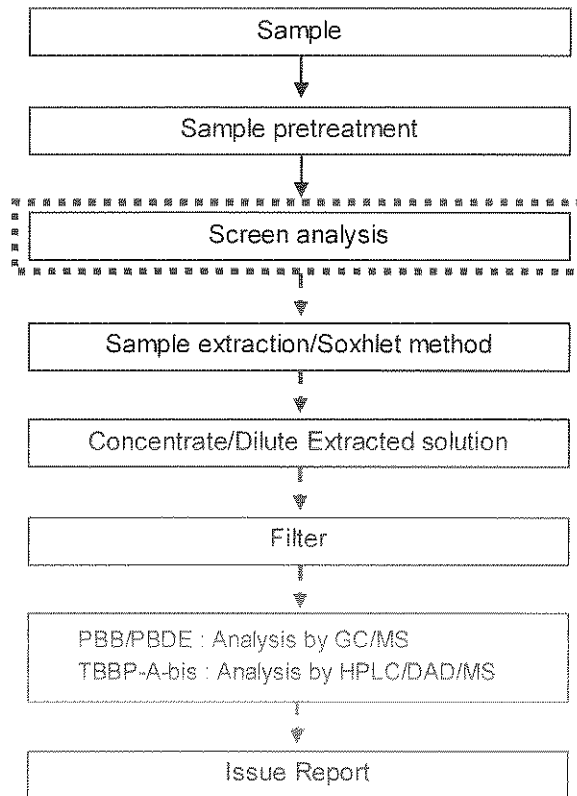


### Analytical flow chart

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Troy Chang

■ Test Items: PBB/PBDE, TBBP-A-bis

First testing process —> Optional screen process ..... Confirmation process —>



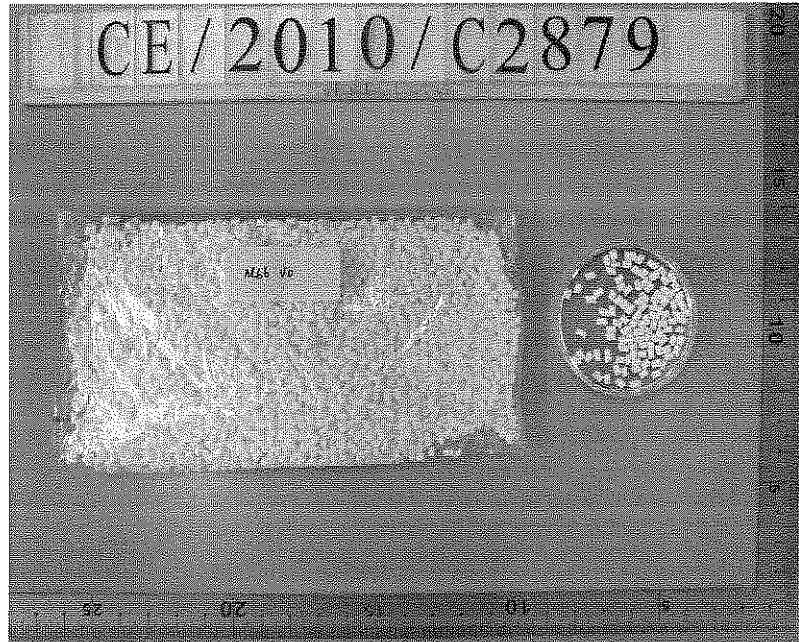
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## Test Report

No. : CE/2010/C2879 Date : 2010/12/21 Page : 15 of 15

GEM TERMINAL IND. CO., LTD.

NO. 138, LANE513, TA-TUNG ROAD, LU-CHU HSIANG KAOHSIUNG HSIEN, TAIWAN



\*\* End of Report \*\*

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## 測試報告 Test Report

號碼(No.): CE/2010/R2380

日期(Date): 2010/11/18

頁數(Page): 1 of 6

南亞塑膠工業股份有限公司

NAN YA PLASTICS CORPORATION

嘉義縣新港鄉中洋村工業區2號

NO. 2, CHUNGYANG INDUSTRIAL PARK, HSINKANG VILLAGE, CHIAYI COUNTRY, TAIWAN



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) : 6410G5ANC1  
 收件日期(Sample Receiving Date) : 2010/11/11  
 測試期間(Testing Period) : 2010/11/11 TO 2010/11/18

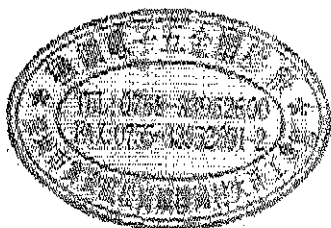
測試需求(Test Requested) : 參照 RoHS 2002/95/EC 及其修定指令要求。 (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).


測試方法(Test Method) : 參考 IEC 62321: 2008 方法檢測。 (With reference to IEC 62321: 2008. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).

- (1) 以感應耦合電漿原子發射光譜儀檢測鎘含量。 / Determination of Cadmium by ICP-AES.
- (2) 以感應耦合電漿原子發射光譜儀檢測鉛含量。 / Determination of Lead by ICP-AES.
- (3) 以感應耦合電漿原子發射光譜儀檢測汞含量。 / Determination of Mercury by ICP-AES.
- (4) 以 UV-VIS 檢測六價鉻含量。 / Determination of Hexavalent Chromium by UV/Vis Spectrometry.
- (5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量。 / Determination of PBB and PBDE by GC/MS.

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

結論(Conclusion) : 根據客戶所提供樣品的測試結果，符合 RoHS (2002/95/EC) 及其修定指令之要求 (Based upon the performed tests by submitted samples, the test results comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).



  
 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/2010/B2380

日期(Date): 2010/11/18

頁數(Page): 2 of 6

南亞塑膠工業股份有限公司

NAN YA PLASTICS CORPORATION

嘉義縣新港鄉中洋村工業區2號

NO. 2, CHUNGYANG INDUSTRIAL PARK, HSINKANG VILLAGE, CHIAYI COUNTRY, TAIWAN



測試結果(Test Results) 單位(Unit): mg/kg

測試項目 (Test Items)	測試方法 Method (Refer to)	結果 (Result)	方法偵測 極限值 (MDL)	RoHS 限值 (Limit)
		No.1		
鎘 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	6	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	1000
多溴聯苯總和 / Sum of PBBs	 (5)	n.d.	-	1000
一溴聯苯 / Monobromobiphenyl		n.d.	5	-
二溴聯苯 / Dibromobiphenyl		n.d.	5	-
三溴聯苯 / Tribromobiphenyl		n.d.	5	-
四溴聯苯 / Tetrabromobiphenyl		n.d.	5	-
五溴聯苯 / Pentabromobiphenyl		n.d.	5	-
六溴聯苯 / Hexabromobiphenyl		n.d.	5	-
七溴聯苯 / Heptabromobiphenyl		n.d.	5	-
八溴聯苯 / Octabromobiphenyl		n.d.	5	-
九溴聯苯 / Nonabromobiphenyl		n.d.	5	-
十溴聯苯 / Decabromobiphenyl	n.d.	5	-	
多溴聯苯醚總和 / Sum of PBDEs		n.d.	-	1000
一溴聯苯醚 / Monobromodiphenyl ether		n.d.	5	-
二溴聯苯醚 / Dibromodiphenyl ether		n.d.	5	-
三溴聯苯醚 / Tribromodiphenyl ether		n.d.	5	-
四溴聯苯醚 / Tetrabromodiphenyl ether		n.d.	5	-
五溴聯苯醚 / Pentabromodiphenyl ether		n.d.	5	-
六溴聯苯醚 / Hexabromodiphenyl ether		n.d.	5	-
七溴聯苯醚 / Heptabromodiphenyl ether		n.d.	5	-
八溴聯苯醚 / Octabromodiphenyl ether		n.d.	5	-
九溴聯苯醚 / Nonabromodiphenyl ether		n.d.	5	-
十溴聯苯醚 / Decabromodiphenyl ether		n.d.	5	-

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# 測試報告 Test Report

號碼(No.): CE/2010/B2380

日期(Date): 2010/11/18

頁數(Page): 3 of 6

南亞塑膠工業股份有限公司

NAN YA PLASTICS CORPORATION

嘉義縣新港鄉中洋村工業區2號

NO. 2, CHUNGYANG INDUSTRIAL PARK, HSINKANG VILLAGE, CHIAYI COUNTRY, TAIWAN

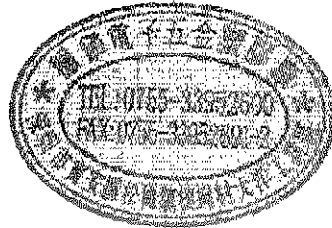


## 測試部位描述 (TEST PART DESCRIPTION):

No.1 : 白色塑膠粒 (WHITE PLASTIC PELLETS)

## 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)



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# 測試報告 Test Report

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日期(Date): 2010/11/18

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南亞塑膠工業股份有限公司

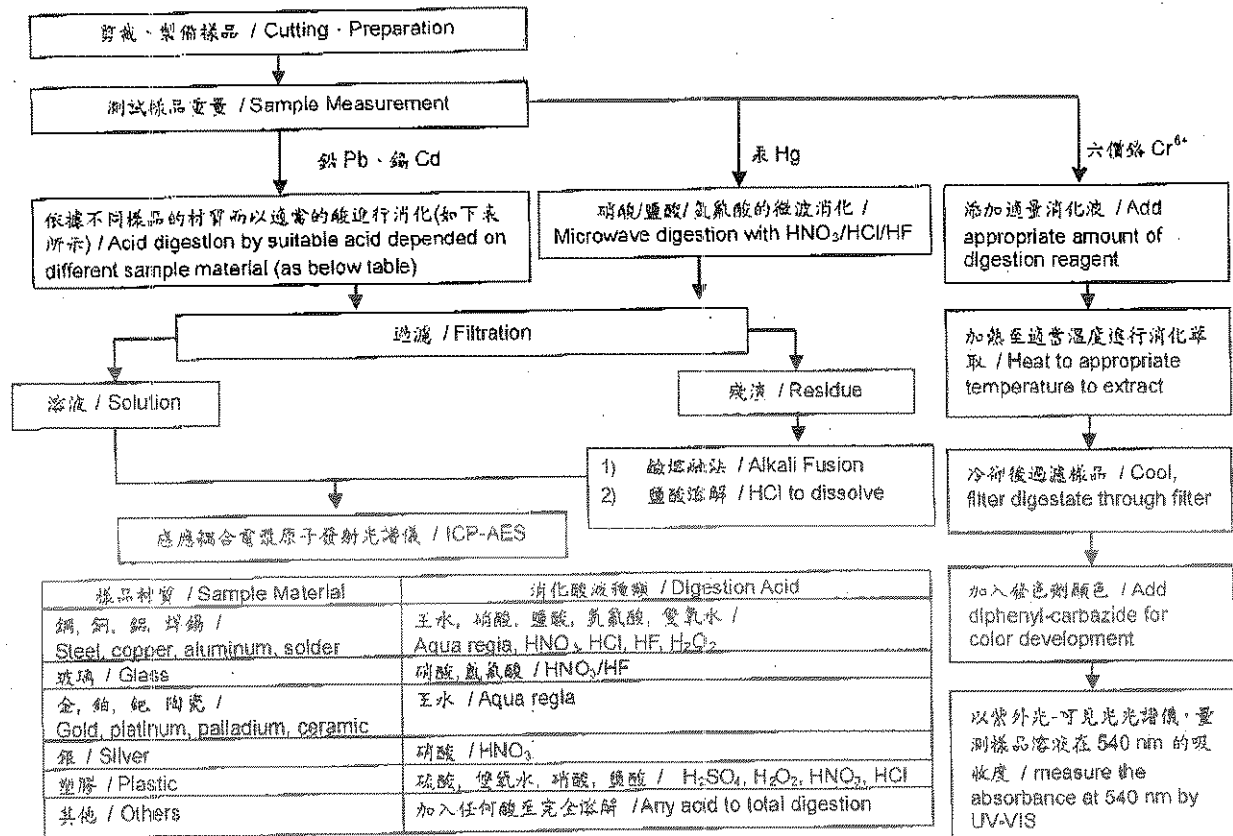
NAN YA PLASTICS CORPORATION

嘉義縣新港鄉中洋村工業區2號

NO. 2, CHUNGYANG INDUSTRIAL PARK, HSINKANG VILLAGE, CHIAYI COUNTRY, TAIWAN



- 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. (Cr<sup>6+</sup> test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climgreat Yang
- 3) 測試負責人：張啓典 / Name of the person in charge of measurement: Troy Chang



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# 測試報告 Test Report

號碼(No.): CE/2010/B2380

日期(Date): 2010/11/18

頁數(Page): 5 of 6

南亞塑膠工業股份有限公司

NAN YA PLASTICS CORPORATION

嘉義縣新港鄉中洋村工業區2號

NO. 2, CIUNGYANG INDUSTRIAL PARK, HSINKANG VILLAGE, CHIAYI COUNTRY, TAIWAN



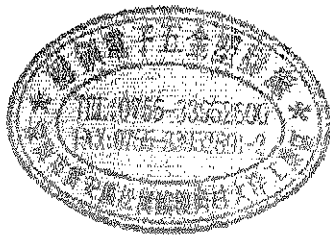
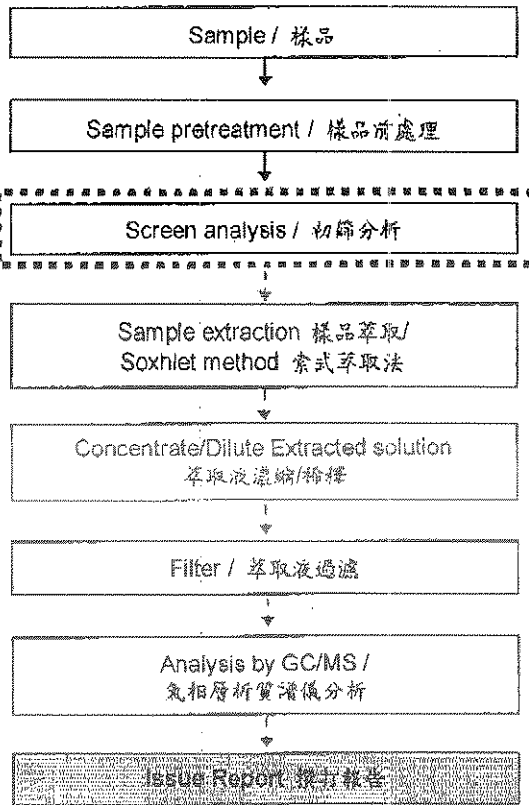
## 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人: 張啓興 / 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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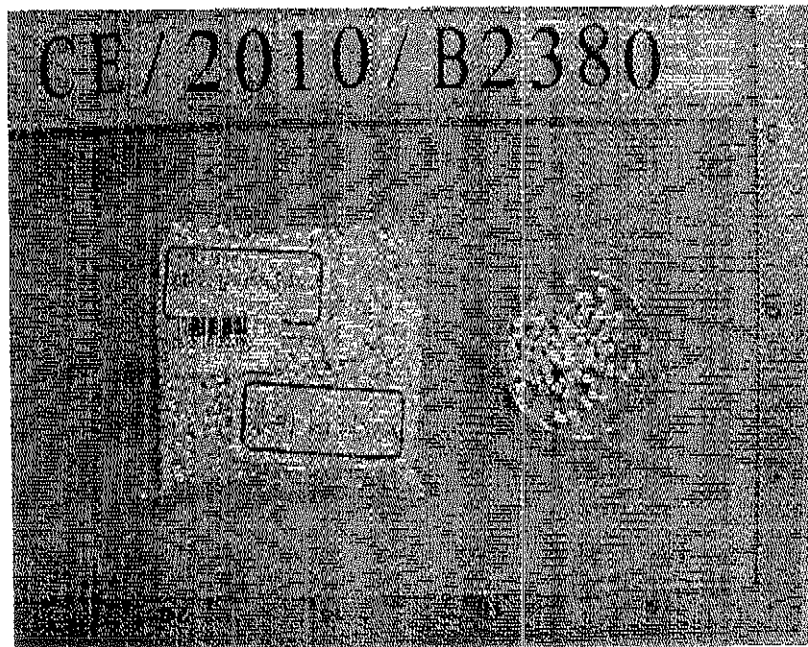
頁數(Page): 6 of 6

南亞塑膠工業股份有限公司

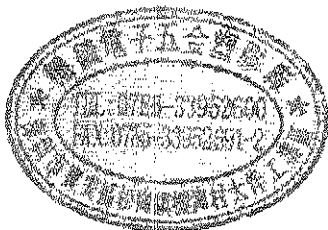
NAN YA PLASTICS CORPORATION

嘉義縣新港鄉中洋村工業區2號

NO. 2, CHUNGYANG INDUSTRIAL PARK, HISINKANG VILLAGE, CHIAYI COUNTRY, TAIWAN



\*\* 報告結尾(End of Report) \*\*



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# TEST REPORT

REPORT No.: RSZ1106273768E

Date: July 1, 2011

Page 1 of 5

MINGDA FIXING BELT FACTORY  
CHANGPING TOWN DONG GUAN CITY GUANGDONG CHINA

Report on the submitted samples said to be:

Sample Name : PE  
Sample Receiving Date : June 27, 2011  
Testing Period : From June 27, 2011 to July 1, 2011  
Results : Please refer to next page(s).

\*\*\*\*\*  
**Summary of Test Results:**

**TEST REQUEST**

**CONCLUSION**

A EU RoHS Directive 2002/95/EC and its amendment directives on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content

**Pass**

\*\*\*\*\*  
Signed for and on behalf of  
BACL

*Bensen*

Checked by: \_\_\_\_\_  
Bensen Huang

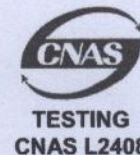
*William*

Approved by: \_\_\_\_\_  
William Wei

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Tel: +86-755-33320018 Fax: +86-755-33320008



# TEST REPORT

REPORT No.: RSZ1106273768E

Date: July 1, 2011

Page 2 of 5

**Results:**

Tested part(s):

(1) Black soft plastic

**A. EU RoHS Directive 2002/95/EC and its amendment directives on on Lead, Cadmium, Mercury & Hexavalent Chromium , PBBs & PBDEs content**

Test method:

**Lead & Cadmium Content:**

With reference to IEC 62321 Ed 1.0:2008 Sec.8(for non-metal material), by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

**Mercury Content:**

With reference to IEC 62321 Ed 1.0:2008 Sec.7, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

**Hexavalent Chromium Content:**

With reference to IEC 62321 Ed 1.0:2008 Annex C(for non-metal material), by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

**PBBs & PBDEs Content:**

With reference to IEC 62321 Ed 1.0:2008 Annex A, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

\*\*\*\*\*

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# TEST REPORT

REPORT No.: RSZ1106273768E

Date: July 1, 2011

Page 3 of 5

Item	Unit	MDL	Results	Limit
			(1)	
Lead Content (Pb)	mg/kg	2	N.D.	1000 mg/kg
Cadmium Content (Cd)	mg/kg	2	N.D.	100 mg/kg
Mercury Content (Hg)	mg/kg	2	N.D.	1000 mg/kg
Hexavalent Chromium (Cr(VI))	mg/kg	2	N.D.	1000 mg/kg
<b>Polybrominated Biphenyls (PBBs)</b>				
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.	
Nonabromodiphenyl	mg/kg	5	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	
Total content	mg/kg	/	N.D.	1000 mg/kg
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>				
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.	
Total content	mg/kg	/	N.D.	1000 mg/kg
<b>Conclusion</b>	/	/	<b>Pass</b>	

**Note:**

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- Flow chart appendix is included.
- Photo appendix is included.

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REPORT No.: RSZ1106273768E

Date: July 1, 2011

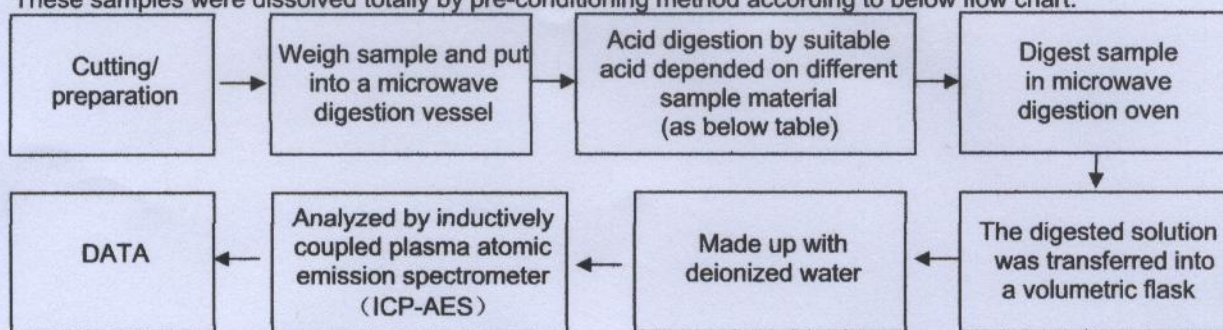
Page 4 of 5

## Appendix

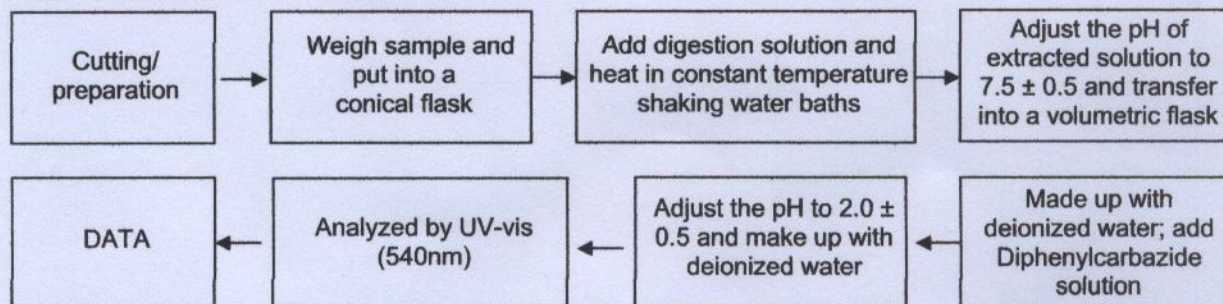
### Test Flow chart

#### 1. Test Flowchart for Cd / Pb /Hg content

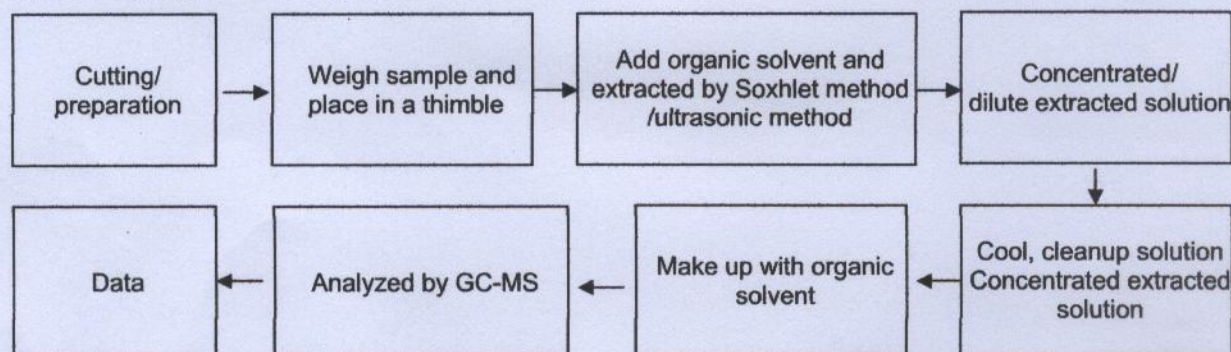
These samples were dissolved totally by pre-conditioning method according to below flow chart.



#### 2. Test Flowchart for Cr<sup>6+</sup> content



#### 3. Test Flowchart for PBBs & PBDEs content



Test by: Kyle.He & Steven.Zhou  
Check by: Lance.Li & Selma.Xu

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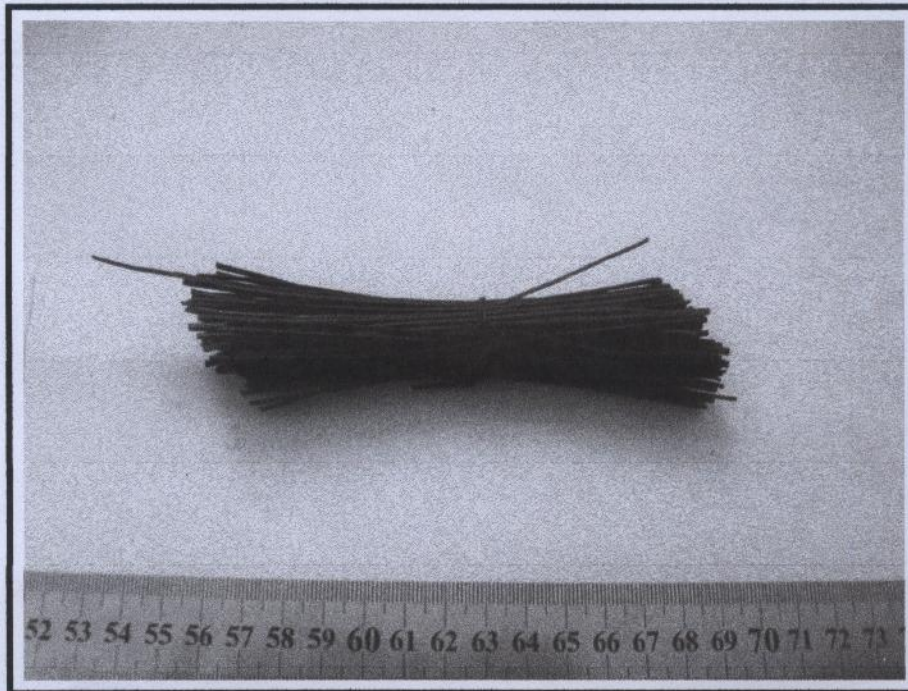
Date: July 1, 2011

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Table:

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

Photograph of Sample



BACL authenticate the photo on original report only

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测试报告

No. CANEC1004691002

日期: 2010年11月15日 第1页,共4页

瑞丰五金(远通)有限公司  
中国广东省东莞市常平镇板石北区二街32号

以下测试之样品是由申请者所提供及确认:

镀锌铁线

SGS工作编号	:	12810457 - SZ
样品接收日期	:	2010年11月09日
测试周期	:	2010年11月09日 - 2010年11月15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

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Almay Gao高志梅  
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GZCM 4893434

Member of the SGS Group (SGS SA)



# 测试报告

No. CANEC1004691002

日期: 2010年11月15日 第2页,共4页

## 测试结果:

样品1 ID  
样品1描述

: CAN10-046910.001  
: 带银色镀层的金属线

## 元素分析

测试项目	单位	测试方法 (参考)	测试结果	MDL
镉 (Cd)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
铅 (Pb)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
汞 (Hg)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2
沸水萃取法测六价铬 (CrVI)		IEC 62321:2008, UV-Vis	Negative	◇

## 注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限
4. ◇ = 点测试:

Negative = 未检测到六价铬, Positive = 检测到;  
(如果点测试结果为Negative或不能确认, 测试样品需进一步由沸水萃取法进行测试。)

### 沸水萃取法:

Negative = 未检测到六价铬

Positive = 检测到六价铬; 每50cm<sup>2</sup>表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大

于0.02mg/kg。

- 由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

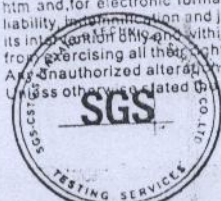
5. # = Positive = 阳性

Negative = 阴性

6. "-" = 未规定

备注: 本测试报告内容是参照报告编号为CANEC1004691001的中文译本, 中英文版本如有歧异, 概以英文版为准。

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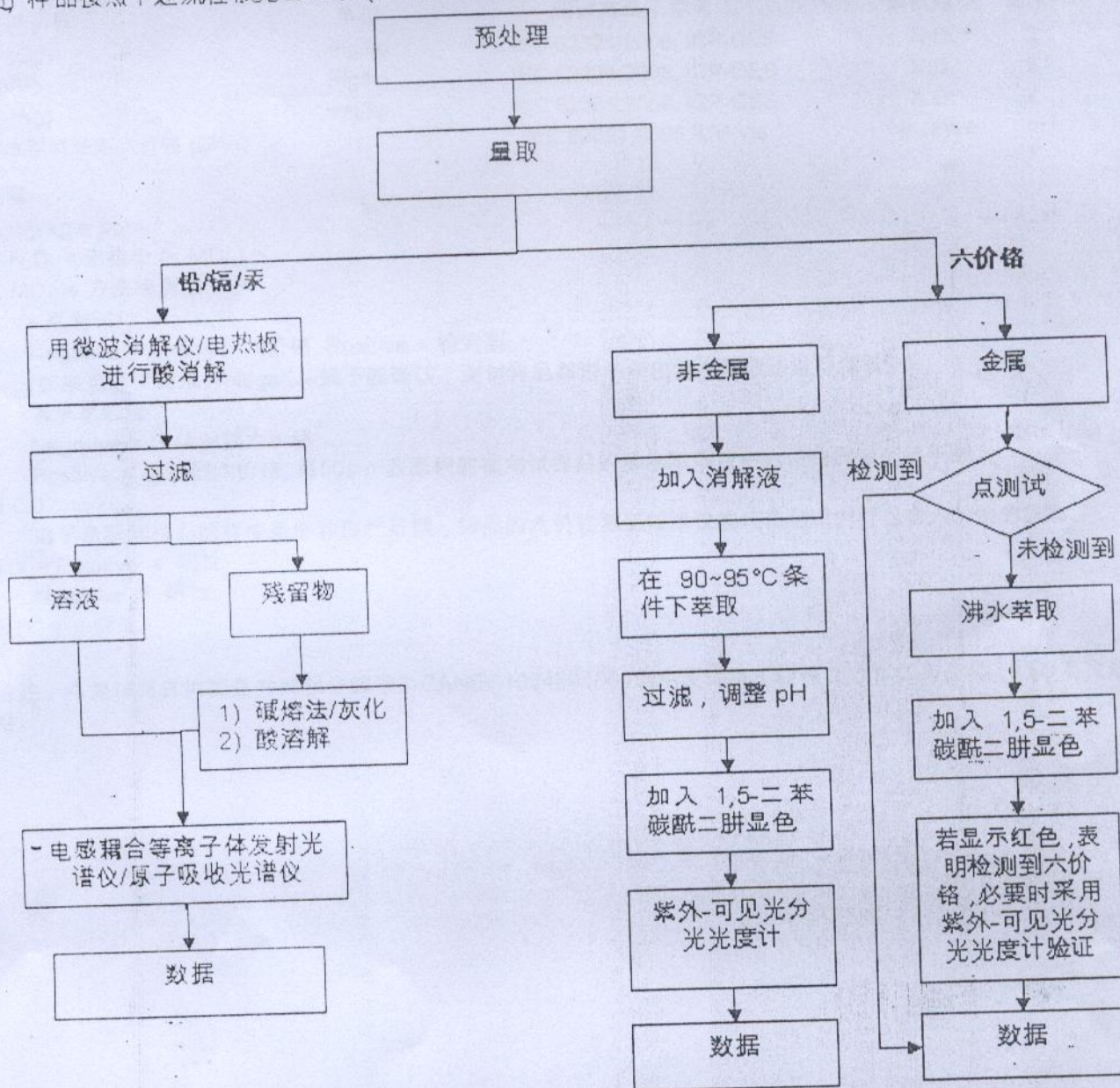
GZCM 4893435



### 附件

### RoHS 测试流程图

- 1) 分析人员: 汪丹 / 詹达琦
- 2) 项目负责人: 余奕东
- 3) 样品按照下述流程被完全消解 (六价铬测试除外)



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# SGS

测试报告

样品照片:

6

# SGS

测试报告

样品照片:

C



No. CANEC1004691002

日期: 2010年11月15日 第4页,共4页



## CANEC1004691002



CAN10-046910.001

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