

## 測試報告 Test Report

號碼(No.): CE/2007/B2671A 日期(Date): 2007/11/21 頁數(Page): 1 of 4

倡業有限公司

HIGH PERFORMANCE CO., LTD.

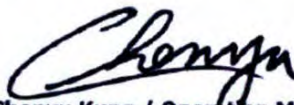
桃園縣觀音工業區經建一路5號

328-NO. 5, CHING-CHIEN 1ST RD., KUAN-YIN IND. PARK, TAO-YUAN COUNTY, 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) : PA+ABS ALLOY  
樣品型號(Style/Item No.) : MA 730-NC  
收件日期(Sample Receiving Date) : 2007/11/12  
測試期間(Testing Period) : 2007/11/12 TO 2007/11/15

=====  
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, Ed. 1 111/54/CDV 方法檢測. (With reference to IEC 62321, Ed.1 111/54/CDV, Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).  
(1) 用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) 用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) 用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) 針對非金屬材質之樣品, 用 UV-VIS 檢測六價鉻含量. / Determination of Hexavalent Chromium for non-metallic samples 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 on the performed tests on submitted samples, the test results are compliant 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

# 測試報告

## Test Report

號碼(No.): CE/2007/B2671A

日期(Date): 2007/11/21

頁數(Page): 2 of 4

倡業有限公司

HIGH PERFORMANCE CO., LTD.

桃園縣觀音工業區經建一路5號

328-NO. 5, CHING-CHIEN 1ST RD., KUAN-YIN IND. PARK, TAO-YUAN COUNTY,

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)	n.d.	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 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-	1000
一溴聯苯醚 / Monobromobiphenyl ether		n.d.	5	-
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	5	-
三溴聯苯醚 / Tribromobiphenyl ether		n.d.	5	-
四溴聯苯醚 / Tetrabromobiphenyl ether		n.d.	5	-
五溴聯苯醚 / Pentabromobiphenyl ether		n.d.	5	-
六溴聯苯醚 / Hexabromobiphenyl ether		n.d.	5	-
七溴聯苯醚 / Heptabromobiphenyl ether		n.d.	5	-
八溴聯苯醚 / Octabromobiphenyl ether		n.d.	5	-
九溴聯苯醚 / Nonabromobiphenyl ether		n.d.	5	-
十溴聯苯醚 / Decabromobiphenyl ether	n.d.	5	-	
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)	n.d.	-	-	

**測試部位描述 (TEST PART DESCRIPTION):**

NO.1 : 白色塑膠粒 (WHITE PLASTIC PELLETS)

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# 測試報告 Test Report

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328-NO. 5, CHING-CHIEN 1ST RD., KUAN-YIN IND. PARK, TAO-YUAN COUNTY,  
TAIWAN



## 備註(Note):

1. mg/kg = ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. 根據2005年10月13日歐盟會議公佈2005/717/EC, 修訂2002/95/EC內容, 通過解除高分子材質中十溴聯苯醚之使用限制. (According to 2005/717/EC DecaBDE is exempt.)
5. "-" = Not Regulated (無規格值)

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日期(Date): 2007/11/21

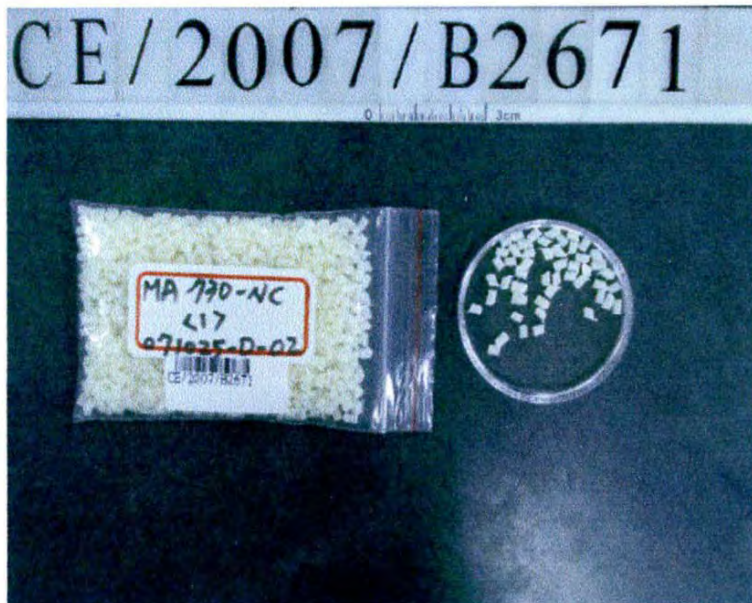
頁數(Page): 4 of 4

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\*\* 報告結尾 \*\*

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**Test Report**

No. CANEC0800023303

Date: 23 Jan 2008

Page 1 of 4

ZHONG SHAN SHI YANG METAL PRODUCT CO.,LTD  
THE THIRD INDUSTRIAL AREA NAA LANG TOWN ZHONG SHAN CITY GUANGDONG PROVINCE  
CHINA

This report is to supersede test report CANEC0800023301

The following sample(s) was/were submitted and identified on behalf of the clients as :  
JisC3604BD COPPER 炉号9881

SGS Job No. : 10787298 - SZ  
Client Reference Information : 炉号 9881  
Date of Sample Received : 25 Oct 2007  
Testing Period : 25 Oct 2007 - 30 Oct 2007

Test Requested : To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.  
(1) Determination of Cadmium by ICP.  
Determination of Lead by ICP.  
Determination of Mercury by ICP.  
(2) Determination of Hexavalent Chromium by Colorimetric Method.

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

Signed for and on behalf of  
SGS-CSTC Ltd.

Huang Fang, Sunny,  
Sr. Engineer

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## Test Report

No. CANEC0800023303

Date: 23 Jan 2008

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Test results by chemical method (Unit : mg/kg)

Test Item(s)	Method (Refer to)	No.1	MDL
Cadmium(Cd)	(1)	27	2
Lead (Pb)	(1)	29017	2
Mercury (Hg)	(1)	N.D.	2
Hexavalent Chromium (CrVI) by boiling water extraction	(2)	Negative	See Note 4

**Note:**

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. 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 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.

Test Part Description

No. 1 Brassy metal rod

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GZCM 1818497

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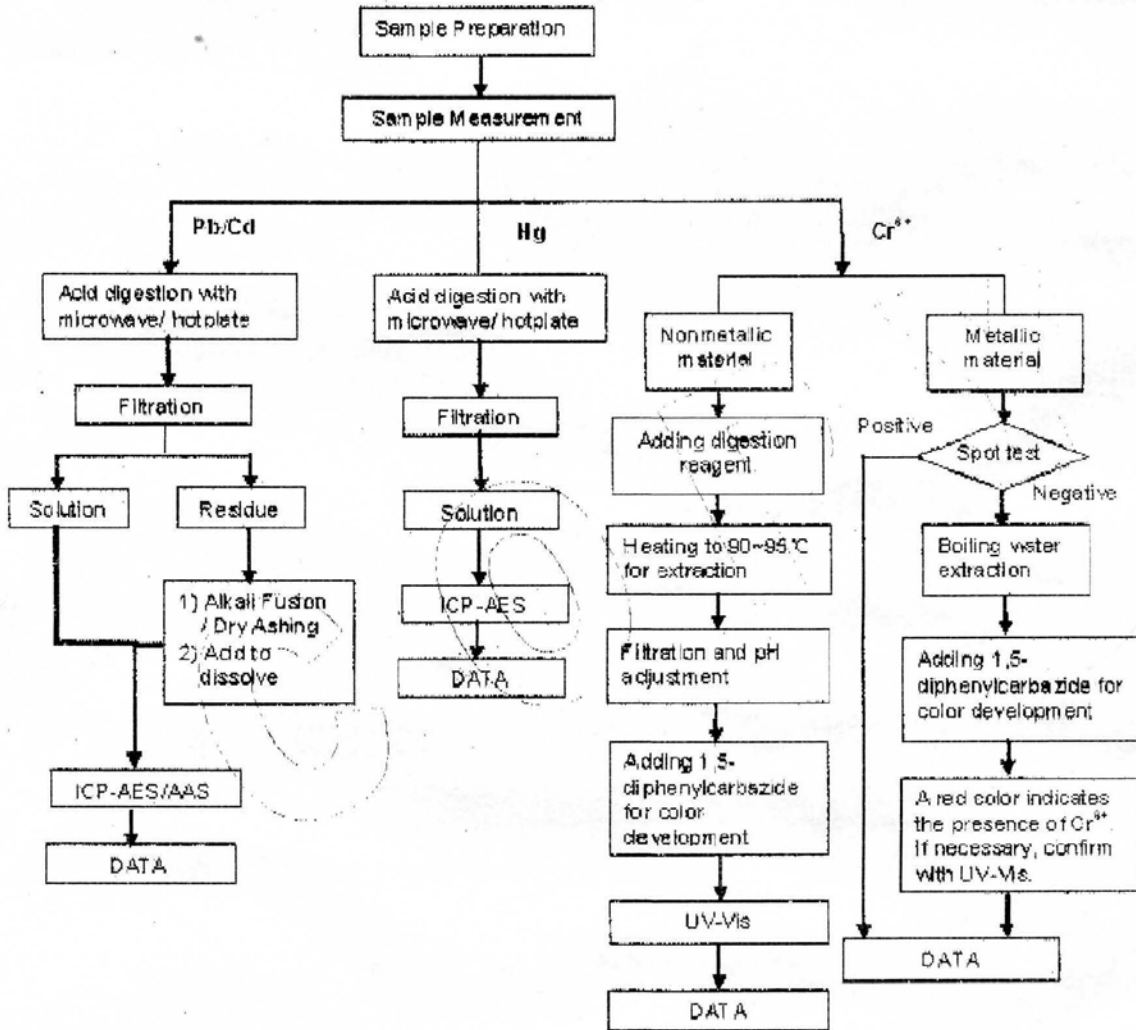
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ATTACHMENTS

Testing Flow Chart

- 1) Name of the person who made measurement: David Shen
- 2) Name of the person in charge of measurement: Emily Feng



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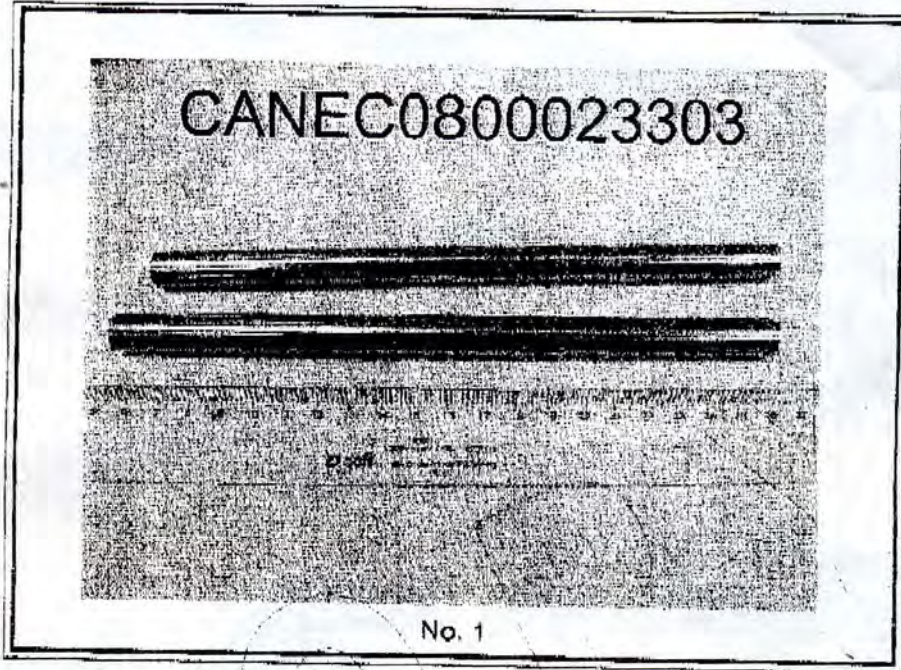
## Test Report

No. CANEC0800023303

Date: 23 Jan 2008

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Sample photo:



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

CO

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 Guangdong Branch Testing Laboratory

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## Test Report

No.: GZ0801011783/CHEM

Date: JAN 18, 2008

Page 1 of 4

ZHAO QING CITY YONG YE METALS INDUSTRY CO., LTD.  
HUAN SHI WEST ROAD, DAWANG INDUSTRIAL ZONE, HIGH-NEW DISTRICT, ZHAOQING CITY

This report is to supersede test report GZ0801005593/CHEM

The following sample(s) was/were submitted and identified on behalf of the applicant as 锌合金锭 Zn-3#

SGS Ref No. : GZ10820079EC  
Sample Receiving Date : JAN 09, 2008  
Testing Period : JAN 09, 2008 TO JAN 15, 2008

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products  
(1) Determination of Cadmium by ICP.  
(2) Determination of Lead by ICP.  
(3) Determination of Mercury by ICP.  
(4) Determination of Hexavalent Chromium by Colorimetric Method.  
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of  
SGS-CSTC Ltd.

Jiang YongPing, Terry  
Sr. Engineer



# Test Report

No.: GZ0801011783/CHEM

Date: JAN 18, 2008

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	22	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI) by Spot test	(4)	Negative	See Note 5	#
<b>Sum of PBBs</b>	(5)	<b>N.D.</b>	-	1000
Monobromobiphenyl		N.D.	5	
Dibromobiphenyl		N.D.	5	
Tribromobiphenyl		N.D.	5	
Tetrabromobiphenyl		N.D.	5	
Pentabromobiphenyl		N.D.	5	
Hexabromobiphenyl		N.D.	5	
Heptabromobiphenyl		N.D.	5	
Octabromobiphenyl		N.D.	5	
Nonabromobiphenyl		N.D.	5	
Decabromobiphenyl		N.D.	5	
<b>Sum of PBDEs (Mono to Nona)(Note 4)</b>		<b>N.D.</b>	-	1000
Monobromodiphenyl ether		N.D.	5	
Dibromodiphenyl ether		N.D.	5	
Tribromodiphenyl ether	N.D.	5		
Tetrabromodiphenyl ether	N.D.	5		
Pentabromodiphenyl ether	N.D.	5		
Hexabromodiphenyl ether	N.D.	5		
Heptabromodiphenyl ether	N.D.	5		
Octabromodiphenyl ether	N.D.	5		
Nonabromodiphenyl ether	N.D.	5		
Decabromodiphenyl ether	N.D.	5		
<b>Sum of PBDEs (Mono to Deca)</b>	<b>N.D.</b>	-	-	

Test Part Description:

No.1 Silvery metal block

Note : 1. mg/kg = ppm

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

3. MDL = Method Detection Limit

4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

5. **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 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.

6. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

7. "-" = Not regulated

Sample photo :

GZ0801011783/CHEM



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



**Test Report**

No.: SZTYR070410642/LP

Date: APR 12, 2007

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SHEN ZHEN PENGJI COPPERY PRODUCE CO., LTD.  
WEST, 5F. BLK. C5, INDUSTRIAL IZEDCITY,  
HENG FENG, HEZHOU, BAOAN, SHENZHEN

The following samples were submitted and identified by/on behalf of the client as: 黄铜管

SGS Ref No. : 10322931-4.2  
Sample Receiving Date : APR 09, 2007  
Testing Period : APR 10, 2007 TO APR 12, 2007

Test Requested : Determination of Lead, Cadmium, Mercury and Hexavalent Chromium contents in the submitted samples.

Test Method : With reference to **IEC 62321, Ed.1 111/54/CDV**  
Procedures for the Determination of Levels of Regulated Substances in  
Electrotechnical Products.  
(1) Determination of Lead by AAS.  
(2) Determination of Cadmium by AAS.  
(3) Determination of Mercury by ICP.  
(4) Determination of Hexavalent Chromium by boiling water extraction (Section 8.5.2).

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

\*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

Li Ying, Susan  
Section Manager

## Test Report

No.: SZTYR070410642/LP

Date: APR 12, 2007

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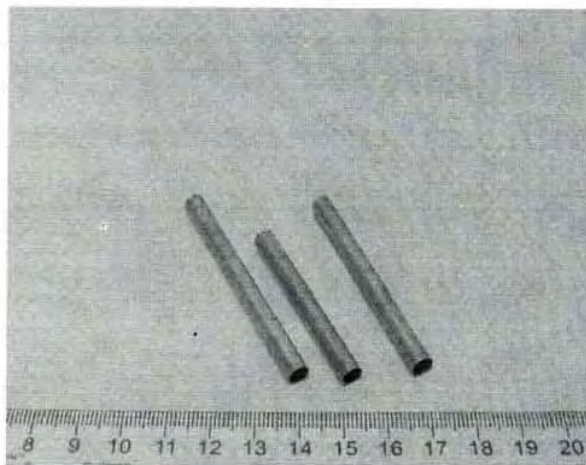
Test Results: (unit: ppm)

Test Item(s)	Method (refer to)	<u>Coppery color metal tube</u>	<u>MDL</u>
Lead (Pb)	(1)	11	2
Cadmium(Cd)	(2)	4	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by boiling water extraction	(4)	Negative	See Note (4)

Note :

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) N.D. = Not Detected (lower than MDL)
- (4) Boiling-water-extraction:  
 Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) 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.)

Sample Photo:



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## Test Report

No. SH7082518/CHEM

Date: Aug. 1, 2007

Page 1 of 5

SUZHOU XIANGCHENG ZHENGXU WIRES AND CABLES CO., LTD  
SUZHOU XIANGCHENG YANGCHENGHU

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

Sample Name : COAXIAL CABLE  
SGS Ref No. : 10489611  
Model No : RG316  
Model may be covered : RG178, RG145, RG179, RG142, RG141  
Lot No : 2X07R316  
Main Substance : 1. SILVER PLATING COPPER; 2. PTFE; 3. FEP  
Supplier : 1. HENGFENG; 2, 3. DAIKIN

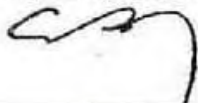
Sample Receiving Date : Jul.27, 2007  
Testing Period : Jul.27 – 31, 2007

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives

Test Method : (1) With reference to IEC 62321 Ed.1 111/54/CDV for Cadmium content.  
Analysis was performed by ICP.  
(2) With reference to IEC 62321 Ed.1 111/54/CDV for Lead content.  
Analysis was performed by ICP and AAS.  
(3) With reference to IEC 62321 Ed.1 111/54/CDV for Mercury content.  
Analysis was performed by ICP.  
(4) With reference to IEC 62321 Ed.1 111/54/CDV for Hexavalent Chromium by  
spot test / Colorimetric Method.  
(5) Alkali Fusion Method for Cadmium, Lead content.  
Analysis was performed by AAS.  
(6) With reference to US EPA 7473 for Mercury content.  
Analysis was performed by Mercury Analyzer.  
(7) With reference to IEC 62321 Ed.1 111/54/CDV for PBB / PBDE Content.  
Analysis was performed by GC-MS.

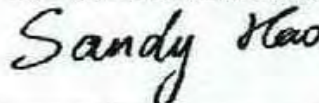
Test Results : Please refer to next pages

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory



Ella Zhang  
Sr. Section Head

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory



Sandy Hao  
Lab Manager

**Test Report**

No. SH7082518/CHEM

Date: Aug. 1, 2007

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	1	MDL	RoHS Limit
Cadmium(Cd)	(1)	ND	2	100
Lead (Pb)	(2)	ND	2	1000
Mercury (Hg)	(3)	ND	2	1000
Hexavalent Chromium (CrVI) by Spot test / boiling water extraction	(4)	Negative	See Note (5)	#

Test Item(s):	Method (refer to)	2	3	MDL	RoHS Limit
Cadmium (Cd)	(5)	ND	ND	5	100
Lead (Pb)		ND	ND	10	1000
Mercury (Hg)	(6)	ND	ND	2	1000
Hexavalent Chromium (Cr VI)	(4)	ND	ND	2	1000
Sum of PBBs	(7)	ND	ND	-	1000
Monobromobiphenyl		ND	ND	5	-
Dibromobiphenyl		ND	ND	5	-
Tribromobiphenyl		ND	ND	5	-
Tetrabromobiphenyl		ND	ND	5	-
Hexabromobiphenyl		ND	ND	5	-
Pentabromobiphenyl		ND	ND	5	-
Heptabromobiphenyl		ND	ND	5	-
Octabromobiphenyl		ND	ND	5	-
Nonabromobiphenyl		ND	ND	5	-
Decabromobiphenyl		ND	ND	5	-
Sum of PBDEs (Note 4)		ND	ND	-	1000
Monobromodiphenyl ether		ND	ND	5	-
Dibromodiphenyl ether		ND	ND	5	-
Tribromodiphenyl ether		ND	ND	5	-
Tetrabromodiphenyl ether		ND	ND	5	-
Pentabromodiphenyl ether		ND	ND	5	-
Hexabromodiphenyl ether		ND	ND	5	-
Heptabromodiphenyl ether		ND	ND	5	-
Octabromodiphenyl ether		ND	ND	5	-
Nonabromodiphenyl ether	ND	ND	5	-	
Decabromodiphenyl ether	ND	ND	5	-	
Sum of PBDEs (Mono to Deca)	ND	ND	-	-	

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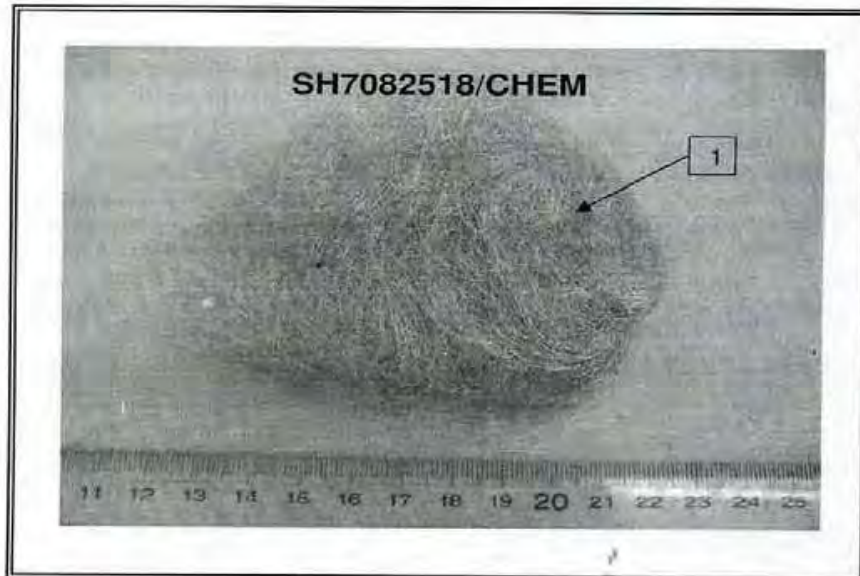
Test Part Description:

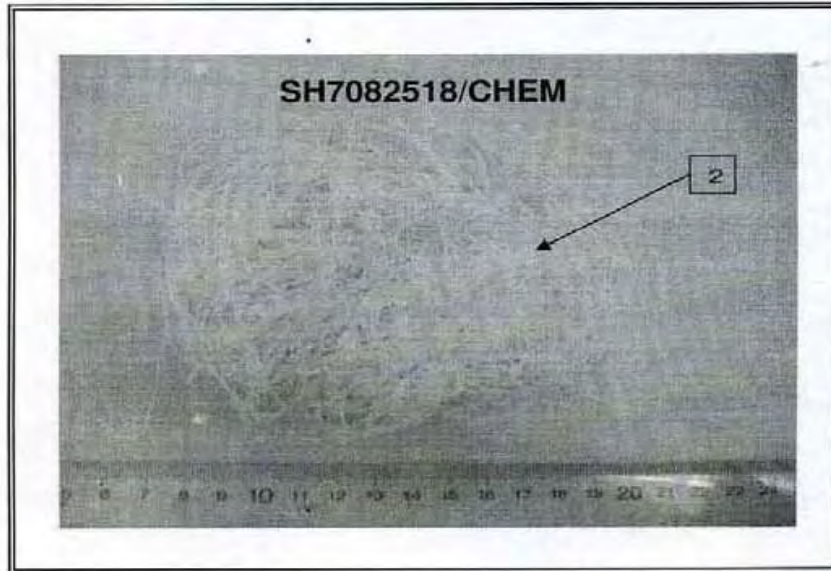
1. Silvery metal wire
2. White plastic thread
3. Brown plastic thread

Note:

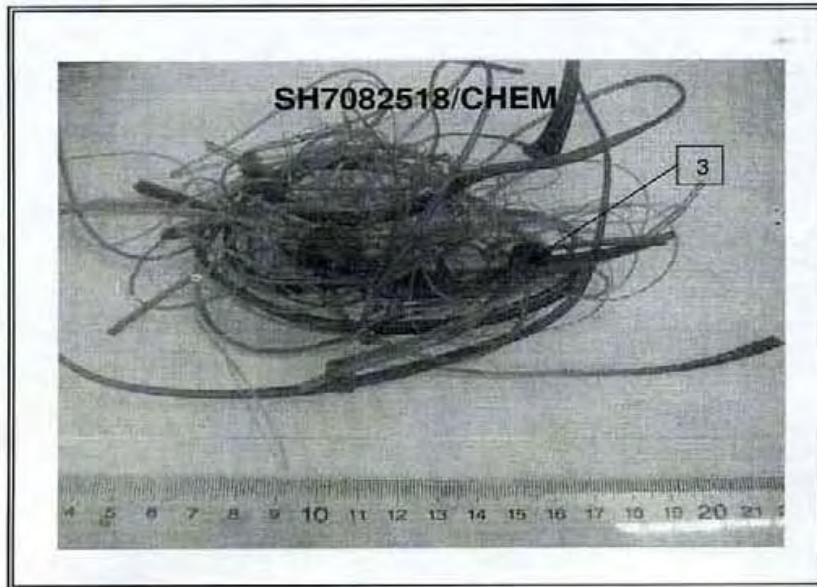
- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- (5) Spot-test:  
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;  
(The tested sample should be further verified by boiling-water-extraction method if the spot test result 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.
- (6) # = Positive indicates the presence of Hexavalent Chromium on the tested areas  
Negative indicates the absence of CrVI on the tested areas.
- (7) "-" = Not Regulated
- (8) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

Sample photo:





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