

報告號碼: CE/2006/95198A

日期 : 2006/09/26

頁數: 1 of 4

益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA COUNTY 500, TAIWAN (R. O. C.)

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下:

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

樣品名稱

: NBR/SPCC 軸承橡膠密封圈

Sample Description

: NBR/SPCC BEARING SEAL

收件日期(Sample Received)

2006/9/19

測試期間(Testing Period)

2006/9/19 TO 2006/09/26

測試需求 / Test Requested

參照 RoHS 2002/95/EC 及其修定指令要求 / With reference to the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method

- (1) 参考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測鎬含量 / With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) 多考US EPA 3050B方法,用感應耦合電漿原子發射光譜儀檢測鉛含量 / With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) 參考US EPA 3052方法,用感應耦合電漿原子發射光譜儀檢測汞含量 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) 参考US EPA 3060A方法,用UV-VIS (US EPA 7196A)檢測六價鉻含量/With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.
- (5) 參考US EPA 3550C方法萃取,以高效液相層析儀/二極體陣列偵測器/質譜儀初篩,再進一步參考US EPA 3540C方法,以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量。 / With reference to US EPA 3540C, Analysis was performed by GC/MS and screening via US EPA 3550C with HPLC/DAD/MS.

測試結果 / Test Result(s)

Signed for and on behalf of SGS TAIWAN LTD.

Yeh, M.A. Y Operation Manager

- 請見下一頁 -

From NECO - Bearing Supplier

有限公司保証

遊五

NEW TECHNOLOGY INDUSTRY CO., L'



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益昌轴承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	結果 / Result No.1	方法偵測 極限値 (MDL)
鎬 / Cadmium (Cd)	(1)	n.d.	2
釢 / Lead (Pb)	(2)	79.2	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價絡 / Chromium VI (Cr+6)	(4)	n.d.	2
總多溴聯苯 / Total PBBs		n.d.	-
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 / Nonabromobipheny!		n.d.	5
十溴聯苯 / Decabromobiphenyl	(5)	n.d.	õ
總多溴聯苯醚 / Total PBBEs(PBDEs)		n.d.	-
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
一至九溴聯苯醚 / Total of Mono to		n.d.	-
Nona(Note 5)			

測試部位描述 / Test Part Description

測試部位 / PART NAME NO.1 : 整體混測 / MIXED ALL PARTS

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SGS TAIWAN LIMITED

NO. 136-1, Wu Kung Road, WuKu Industrial Zone, Taipel county, Taiwan. 1(886-2) 22993939 (1886-2) 2299-3237 www.sgs.com.tw



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彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA COUNTY 500, TAIWAN (R. O. C.)

- Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)
  - (2) n.d. = N.D. = ND = Not Detected / 未檢出(低於方法偵測極限值)
  - (3) MDL = Method Detection Limit / 方法偵測極限値
  - (4) Sample was totally digested for Pb, Cd, Hg / 對於鉛鎬汞測項,樣品是完全消化
  - (5) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt. 根據2005年10月13日歐盟會議公佈2005/717/EC,修訂2002/95/EC内容,通過解除 高分子材質中十溴聯苯醚之使用限制。
  - (6) "-" = Not Regulated / 無規格值

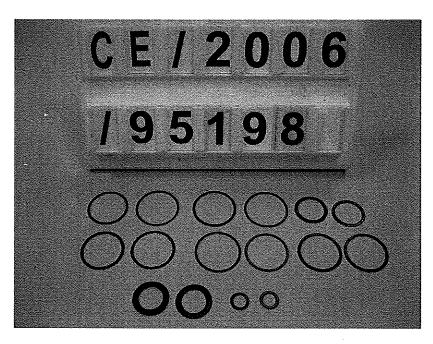


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益昌軸承有限公司 YI CHANG BEARING CO., LTD. 彰化市縣東路一段137-1號 NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA COUNTY 500, TAIWAN (R. O. C.)



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益昌軸承有限公司

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COUNTY 500, TAIWAN (R. O. C.)

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下:

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

樣品名稱

: SPCC 軸承防塵蓋

Sample Description

: SPCC BEARING SHUELD

收件日期(Sample Received)

2006/9/19

測試期間(Testing Period)

2006/9/19 TO 2006/09/26

測試需求 / Test Requested

參照 RoHS 2002/95/EC 及其修定指令要求 / With reference to the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method

- (1) 參考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測鍋含量 / With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) 参考US EPA 3050B方法,用感應耦合電漿原子發射光譜儀檢測鋁含量 / With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) 参考US EPA 3052方法,用感應耦合電漿原子發射光譜儀檢測汞含量 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) 参考IEC 62321 Ed. 1 (111/54/CDV)方法,用Spot test / Colorimetric方法檢測六價絡含量 / With reference to IEC 62321, ED.1 (111/54/CDV). Determination of Hexavalent Chromium by Spot test / Colorimetric Method.

測試結果 / Test Result(s)

- 請見下一頁 -

Daniel Yen, M.R. Operation Manager Signed for and on behalf of SGS TAIWAN LTD.



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COUNTY 500, TAIWAN (R. O. C.)

#### 測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	结果 / Result No.1	方法偵測 極限値 (MDL)
鎬 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	9.3	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價絡 / Hexavalent Chromium (CrVI) by Spot test / boiling water extraction	(4)	Negative	(Note 6)

#### 測試部位描述 / Test Part Description

測試部位 / PART NAME NO.1

銀色金屬 / SILVER COLORED METAL

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

- (2) n.d. = N.D. = ND = Not Detected / 未檢出(低於方法偵測極限值)
- (3) MDL = Method Detection Limit / 方法偵測極限値
- (4) Sample was totally digested for Pb, Cd, Hg / 對於鉛鎬汞測項,樣品是完全消化
- (5) Negative = Undetectable / 陰性(未偵測到), Positive = Detectable 陽性(已偵測到)
- (6) Detection limit = 1 mg/kg of Hexavalent Chromium content on the tested areas.

  Negative = less than detection limit

The tested sample should be further verified by boiling water extraction method if the spot test result cannot be confirmed. Boiling-water extraction: Detection limit = 0.02 mg/kg of Hexavalent Chromium content on tested areas. Negative = less than detection limit. /

六價絡在測試區域的偵測極限是 1 mg/kg; Negative 表示小於偵測極限 假使spot test無法確認是否含六價鉻時須使用沸水萃取法再進一步確認. 沸水萃取法: 六價絡在測試區域的偵測極限是 0.02 mg/kg



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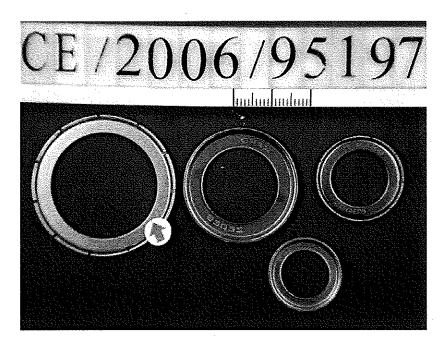
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COUNTY 500, TAIWAN (R. O. C.)

以下測試樣品係由客户送樣, 且由客户聲稱並經客户確認如下:

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

樣品名稱

: PA66 軸承尼龍保持架

Sample Description

: PA66 BEARING NYLON RETAINER

收件日期(Sample Received)

2006/9/19

測試期間(Testing Period)

2006/9/19 TO 2006/09/26

測試需求 / Test Requested

冬照 RoHS 2002/95/EC 及其修定指令要求 / With reference to the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method

- (1) 参考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測鎬含量 / With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) 参考US EPA 3050B方法,用感應耦合電漿原子發射光譜儀檢測鉛含量 / With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) 参考US EPA 3052方法,用感應耦合電漿原子發射光譜儀檢測汞含量 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) 参考US EPA 3060A方法,用UV-VIS (US EPA 7196A)檢測六價絡含量 / With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.
- (5) 參考US EPA 3550C方法萃取,以高效液相層析儀/二極體陣列偵測器/質譜儀初篩,再進一步參考US EPA 3540C方法,以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量。 / With reference to US EPA 3540C, Analysis was performed by GC/MS and screening via US EPA 3550C with HPLC/DAD/MS.

測試結果 / Test Result(s)

- 請見下一頁 -

Deniel Yen, M.R. / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.



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日期 : 2006/09/26

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益昌轴承有限公司

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NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

測試結果 (單位: mg/kg) / Test Result(s)

測試項目 /	測試方法 Method	結果 / Result	方法偵測 極限値
Test Item (s):	(Refer to)	No.1	(MDL)
鎬 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	n.d.	2
禾 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Chromium VI (Cr+6)	(4)	n.d.	2
總多溴聯苯 / Total PBBs		n.d.	
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.	อี
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	(5)	n.d.	5
總多溴聯苯醚 / Total PBBEs(PBDEs)		n.d.	-
一溴聯苯醚 / Monobromobiphenyl ether		n.d.	ā
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	õ
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
一至九溴聯苯醚 / Total of Mono to		n.d.	-
Nona(Note 5)			

測試部位描述 / Test Part Description

測試部位 / PART NAME NO.1

褐色塑膠 / BROWN PLASTIC



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益昌軸承有限公司

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彰化市縣東路一段137-1號

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Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

- (2) n.d. = N.D. = ND = Not Detected / 未檢出(低於方法偵測極限值)
- (3) MDL = Method Detection Limit / 方法偵測極限値
- (4) Sample was totally digested for Pb, Cd, Hg / 對於鉛镉汞測項,樣品是完全消化
- (5) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt. 根據2005年10月13日歐盟會議公佈2005/717/EC,修訂2002/95/EC内容,通過解除高分子材質中十溴聯苯醚之使用限制。
- (6) "-" = Not Regulated / 無規格值



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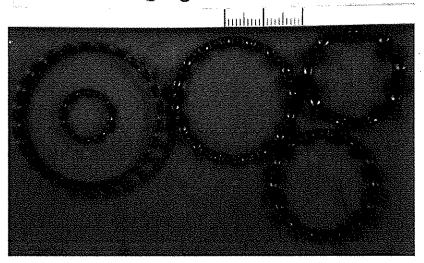
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益昌軸承有限公司 YI CHANG BEARING CO., LTD. 彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA COUNTY 500, TAIWAN (R. O. C.)

## CE/2006/95196



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益昌軸承有限公司

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COUNTY 500, TAIWAN (R. O. C.)

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下:

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

樣品名稱

: SPCC 轴承保持架

Sample Description

SPCC BEARING RETAINER

收件日期(Sample Received)

2006/9/19

測試期間(Testing Period)

2006/9/19 TO 2006/09/26

測試需求 / Test Requested

参照 RoHS 2002/95/EC 及其修定指令要求 / With reference to the

RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method

- (1) 多考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測鎬含量 / With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) 参考US EPA 3050B方法,用感應耦合電漿原子發射光譜儀檢測鉛含量 / With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) 参考US EPA 3052方法,用感應耦合電漿原子發射光譜儀檢測汞含量 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) 參考IEC 62321 Ed. 1 (111/54/CDV)方法,用Spot test / Colorimetric方法檢測六價絡含量 / With reference to IEC 62321, ED.I (111/54/CDV). Determination of Hexavalent Chromium by Spot test / Colorimetric Method.

測試結果 / Test Result(s)

- 請見下一頁 -

Danlel Yeh, M.R. / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.



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日期 : 2006/09/26

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NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

#### 測試結果 (單位: mg/kg) / Test Result(s)

測試項目 /	測試方法 Method	結果 / Result	方法偵測 極限値
Test Item (s):	(Refer to)	No.1	(MDL)
鎬 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	9.4	2
乘 / Mercury (Hg)	(3)	n.d.	2
六價络 / Hexavalent Chromium (CrVI)	(4)	Negative	(Note 6)
by Spot test / boiling water	,		
extraction			

#### 測試部位描述 / Test Part Description

測試部位 / PART NAME NO.1

銀灰色金屬 / SILVER-GRAY METAL

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

- (2) n.d. = N.D. = ND = Not Detected / 未檢出(低於方法偵測極限值)
- (3) MDL = Method Detection Limit / 方法偵測極限値
- (4) Sample was totally digested for Pb, Cd, Hg / 對於鉛鎬汞測項,樣品是完全消化
- (5) Negative = Undetectable / 陰性(未偵測到), Positive = Detectable 陽性(已偵測到)
- (6) Detection limit = 1 mg/kg of Hexavalent Chromium content on the tested areas. Negative = less than detection limit

The tested sample should be further verified by boiling water extraction method if the spot test result cannot be confirmed. Boiling-water extraction: Detection limit = 0.02 mg/kg of Hexavalent Chromium content on tested areas. Negative = less than detection limit. /

六價絡在測試區域的偵測極限是 1 mg/kg; Negative 表示小於偵測極限 假使spot test無法確認是否含六價鉻時須使用沸水萃取法再進一步確認. 沸水萃取法: 六價鉻在測試區域的偵測極限是 0.02 mg/kg



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益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA COUNTY 500, TAIWAN (R. O. C.)

CE/2006/95195

報告結尾 \*\*



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益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

COUNTY 500, TAIWAN (R. O. C.)

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下:

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

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

樣品名稱

SUS440 軸承内外圈

Sample Description

SUS440 BEARING INNER & OUTER RING

收件日期(Sample Received)

2006/9/19

測試期間(Testing Period)

2006/9/19 TO 2006/09/26

測試需求 / Test Requested

參照 RoHS 2002/95/EC 及其修定指令要求 / With reference to the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method

- (1) 參考BS EN 1122方法B: 2001, 用感應耦合電漿原子發射光譜儀檢測鍋 含量 / With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) 參考US EPA 3050B方法, 用感應耦合電漿原子發射光譜儀檢測鉛含量 / With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) 參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測汞含量 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) 参考IEC 62321 Ed. 1 (111/54/CDV)方法,用Spot test / Colorimetric方法檢測六價絡含量 / With reference to IEC 62321, ED.1 (111/54/CDV). Determination of Hexavalent Chromium by Spot test / Colorimetric Method.

測試結果 / Test Result(s)

- 請見下一頁 -

Operation Manager Signed for and on behalf of SGS TAIWAN LTD.



報告號碼 : CE/2006/95194A

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益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

#### 測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	结果 / Result No.1	方法偵測 極限値 (MDL)
鎬 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	5.9	2
禾 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Hexavalent Chromium (CrVI) by Spot test / boiling water extraction	(4)	Negative	(Note 6)

#### 測試部位描述 / Test Part Description

測試部位 / PART NAME NO.1

銀灰色金屬 / SILVER-GRAY METAL

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

- (2) n.d. = N.D. = ND = Not Detected / 未檢出(低於方法偵測極限值)
- (3) MDL = Method Detection Limit / 方法偵測極限値
- (4) Sample was totally digested for Pb, Cd, Hg / 對於鉛鎬汞測項,樣品是完全消化
- (5) Negative = Undetectable / 陰性(未偵測到), Positive = Detectable 陽性(已偵測到)
- (6) Detection limit = 1 mg/kg of Hexavalent Chromium content on the tested areas. Negative = less than detection limit

The tested sample should be further verified by boiling water extraction method if the spot test result cannot be confirmed. Boiling-water extraction: Detection limit = 0.02 mg/kg of Hexavalent Chromium content on tested areas. Negative = less than detection limit. /

六價絡在測試區域的偵測極限是 1 mg/kg; Negative 表示小於偵測極限 假使spot test無法確認是否含六價鉻時須使用沸水萃取法再進一步確認. 沸水萃取法: 六價絡在測試區域的偵測極限是 0.02 mg/kg

## SGS

## 測試報告

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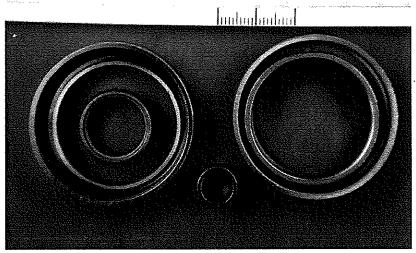
益昌軸承有限公司 YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

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益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

以下測試樣品係由客户送樣, 且由客户聲稱並經客户確認如下:

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

樣品名稱

: SUJ2 軸承内外圈

Sample Description

: SUJ2 BEARING INNER & OUTER RING

收件日期(Sample Received)

2006/9/19

測試期間(Testing Period)

2006/9/19 TO 2006/09/26

測試需求 / Test Requested

冬照 RoHS 2002/95/EC 及其修定指令要求 / With reference to the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method

- (1) 多考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測編含量 / With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) 参考US EPA 3050B方法,用感應耦合電漿原子發射光譜儀檢測鉛含量 / With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) 参考US EPA 3052方法,用感應耦合電漿原子發射光譜儀檢測汞含量 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) 參考IEC 62321 Ed. 1 (111/54/CDV)方法,用Spot test / Colorimetric方法檢測六價絡含量 / With reference to IEC 62321, ED.1 (111/54/CDV). Determination of Hexavalent Chromium by Spot test / Colorimetric Method.

測試結果 / Test Result(s)

: - 請見下一頁 -

Daniel Yeh, M.R. Operation Manager Signed for and on behalf of SGS TAIWAN LTD.



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益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

#### 測試結果 (單位: mg/kg) / Test Result(s)

測試項目 /	測試方法 Method	结果 / Result	方法偵測 極限値
Test Item (s):	(Refer to)	No.1	(MDL)
鎬 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	7.1	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Hexavalent Chromium (CrVI) by Spot test / boiling water	(4)	Negative	(Note 6)
extraction			

#### 測試部位描述 / Test Part Description

測試部位 / PART NAME NO.1

銀灰色金屬 / SILVER-GRAY METAL

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

- (2) n.d. = N.D. = ND = Not Detected / 未檢出(低於方法偵測極限值)
- (3) MDL = Method Detection Limit / 方法偵測極限値
- (4) Sample was totally digested for Pb, Cd, Hg / 對於鉛鎬汞測項,樣品是完全消化
- (5) Negative = Undetectable / 陰性(未偵測到), Positive = Detectable 陽性(已偵測到)
- (6) Detection limit = 1 mg/kg of Hexavalent Chromium content on the tested areas.
  Negative = less than detection limit

The tested sample should be further verified by boiling water extraction method if the spot test result cannot be confirmed. Boiling-water extraction: Detection limit = 0.02 mg/kg of Hexavalent Chromium content on tested areas. Negative = less than detection limit. /

六價絡在測試區域的偵測極限是 1 mg/kg; Negative 表示小於偵測極限 假使spot test無法確認是否含六價鉻時須使用沸水萃取法再進一步確認. 沸水萃取法: 六價絡在測試區域的偵測極限是 0.02 mg/kg

# SGS

## 測試報告

報告號碼: CE/2006/95193A

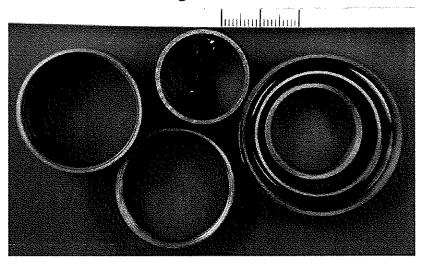
日期 : 2006/09/26

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益昌軸承有限公司 YI CHANG BEARING CO., LTD. 彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA COUNTY 500, TAIWAN (R. O. C.)

## CE/2006/95193



報告結尾 \*\*



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日期 : 2006/09/26

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益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA COUNTY 500, TAIWAN (R. O. C.)

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下:

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

樣品名稱

SUJ2 鋼珠

Sample Description

SUJ2 BALL

收件日期(Sample Received)

2006/9/19

測試期間(Testing Period)

2006/9/19 TO 2006/09/26

測試需求 / Test Requested

冬照 RoHS 2002/95/EC 及其修定指令要求 / With reference to the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method

- (1) 参考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測鍋 含量 / With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) 参考US EPA 3050B方法,用感應耦合電漿原子發射光譜儀檢測鉛含量 / With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) 參考US EPA 3052方法,用感應耦合電漿原子發射光譜儀檢測汞含量 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) 多考IEC 62321 Ed. 1 (111/54/CDV)方法, 用Spot test / Colorimetric方法檢測六價路含量 / With reference to IEC 62321, ED.1 (111/54/CDV). Determination of Hexavalent Chromium by Spot test / Colorimetric Method.

測試結果 / Test Result(s)

- 請見下一頁 -

Operation Manager Signed for and on behalf of SGS TAIWAN LTD.



報告號碼 : CE/2006/95200A

日期 : 2006/09/26

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益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

#### 測試結果 (單位: mg/kg) / Test Result(s)

測試項目 /	測試方法	结果 / Result	方法偵測 極限値
Test Item (s):	Method (Refer to)	No.1	(MDL)
鎬 / Cadmium (Cd)	(1)	n.d.	2
鋁 / Lead (Pb)	(2)	n.d.	2
乘 / Mercury (Hg)	(3)	n.d.	2
六價絡 / Hexavalent Chromium (CrVI) by Spot test / boiling water extraction	(4)	Negative	(Note 6)

#### 測試部位描述 / Test Part Description

測試部位 / PART NAME NO.1

銀色金屬 / SILVER COLORED METAL

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

- (2) n.d. = N.D. = ND = Not Detected / 未檢出(低於方法偵測極限值)
- (3) MDL = Method Detection Limit / 方法偵測極限値

:

- (4) Sample was totally digested for Pb, Cd, Hg / 對於鉛鎬汞測項,樣品是完全消化
- (5) Negative = Undetectable / 陰性(未偵測到), Positive = Detectable 陽性(已偵測到)
- (6) Detection limit = 1 mg/kg of Hexavalent Chromium content on the tested areas.

  Negative = less than detection limit

The tested sample should be further verified by boiling water extraction method if the spot test result cannot be confirmed. Boiling-water extraction: Detection limit = 0.02 mg/kg of Hexavalent Chromium content on tested areas. Negative = less than detection limit. /

六價鉻在測試區域的偵測極限是 1 mg/kg; Negative 表示小於偵測極限 假使spot test無法確認是否含六價鉻時須使用沸水萃取法再進一步確認, 沸水萃取法: 六價鉻在測試區域的偵測極限是 0.02 mg/kg



報告號碼 : CE/2006/95200A

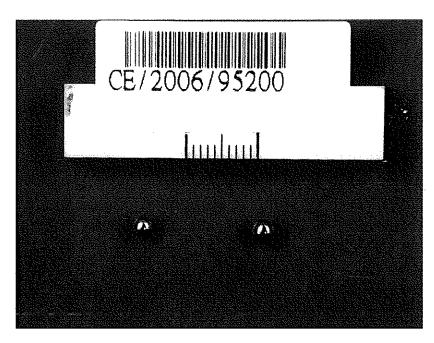
日期 : 2006/09/26

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益昌軸承有限公司 YI CHANG BEARING CO., LTD. 彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)



\*\* 報告結尾 \*\*



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益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下:

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

樣品名稱

: Si 3N4 陶瓷球

Sample Description

Si3N4 CERAMIC BALL

收件日期(Sample Received)

2006/9/19

測試期間(Testing Period)

2006/9/19 TO 2006/09/26

\_\_\_\_\_\_\_

測試需求 / Test Requested

參照 RoHS 2002/95/EC 及其修定指令要求 / With reference to the

RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method

- (1) 冬考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測镉 含量 / With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) 參考US EPA 3050B方法,用感應耦合電漿原子發射光譜儀檢測鉛含量 / With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) 參考US EPA 3052方法,用感應耦合電漿原子發射光譜儀檢測汞含量 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) 冬考US EPA 3060A方法,用UV-VIS (US EPA 7196A)檢測六價絡含量/With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.
- (5) 參考US EPA 3550C方法萃取,以高效液相層析儀/二極體陣列偵測器/質譜儀初篩,再進一步參考US EPA 3540C方法,以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量。/ With reference to US EPA 3540C, Analysis was performed by GC/MS and screening via US EPA 3550C with HPLC/DAD/MS.

測試結果 / Test Result(s)

- 請見下一頁 -

Darlief Yeh, M.R. / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.



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益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

測試結果 (單位: mg/kg) / Test Result(s)

測試項目 /	測試方法 Method	结果 / Result	方法偵測 極限値
Test Item (s):	(Refer to)	No.1	(MDL)
鎬 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	n.d.	2
乘 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Chromium VI (Cr+6)	(4)	n.d.	2
總多溴聯苯 / Total PBBs		n.d.	-
一溴聯苯 / Monobromobiphenyl		n.d.	5
二溴聯苯 / Dibromobiphenyl		n.d.	5
三溴聯苯 / Tribromobiphenyl		n.d.	õ
四溴聯苯 / Tetrabromobiphenyl		n.d.	õ
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	(5)	n.d.	5
十溴聯苯 / Decabromobiphenyl		n.d.	ō
總多溴聯苯醚 / Total PBBEs(PBDEs)		n.d.	-
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.	ő
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
一至九溴聯苯醚 / Total of Mono to		n.d.	_
Nona(Note 5)			

測試部位描述 / Test Part Description

測試部位 / PART NAME NO.1 :

鐵灰色陶瓷 / IRON-GRAY CERAMIC



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益昌軸承有限公司

YI CHANG BEARING CO., LTD.

彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA

COUNTY 500, TAIWAN (R. O. C.)

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

- (2) n.d. = N.D. = ND = Not Detected / 未檢出(低於方法偵測極限值)
- (3) MDL = Method Detection Limit / 方法偵測極限値
- (4) Sample was totally digested for Pb, Cd, Hg / 對於鉛鎬汞測項,樣品是完全消化
- (5) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt. 根據2005年10月13日歐盟會議公佈2005/717/EC,修訂2002/95/EC内容,通過解除高分子材質中十溴聯苯醚之使用限制。
- (6) "-" = Not Regulated / 無規格值



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益昌軸承有限公司 YI CHANG BEARING CO., LTD. 彰化市縣東路一段137-1號

NO. 137-1, SEC. 1, SIANDONG RD., CHANGHUA CITY, CHANGHUA COUNTY 500, TAIWAN (R. O. C.)



\*\* 報告結尾 \*\*