

Customer			
Material	Free cutting brass		
Stability-class:	JIS H 3250 C3604 BD		
CHEMICAL COMPOSITION %			
Taster	X-RAY ANALYSIS		
Measurement	VACUUM X RAY SPECTROGRAPH		
ELEMENT	STANDARD VALUE	ACTUAL VALUE	REMARK
Cu	57.0-61.0 %	58.43 %	
Pb	1.8-3.7 %	3.36 %	
Fe	< 0.5 %	-----	
Sn+Fe	< 1.2 %	0.71 %	
Zn	REMAINDER	REMAINDER	
Other			
MECHANICAL & PHYSICAL PROPERTIES			
Tensile strength : 360 N/mm <sup>2</sup>			
Heated/material Hardness or stability, HB or HV :(90)			
REMARK:			
ASTM Standard: CA 360 Free cutting brass.			

Customer			
Material	Phosphor Bronze Bars		
Stability-class:	JIS H 3270 C 5441		
CHEMICAL COMPOSITION %			
Taster	X-RAY ANALYSIS		
Measurement	VACUUM X RAY SPECTROGRAPH		
ELEMENT	STANDARD VALUE	ACTUAL VALUE	REMARK
Cu	Bal-	Bal-	
Sn	3.0 – 4.5 %	4.06 %	
P	0.01 – 0.05 %	0.19 %	
Zn	1.5 – 4.5 %	4.31 %	
Pb	3.5 – 4.5 %	4.01 %	
Cu+Sn+P+Zn +Pb	99.5 Min.	99.99 %	
MECHANICAL & PHYSICAL PROPERTIES			
Tensile strength : 570 min. N/mm <sup>2</sup>			
Heated/material Hardness or stability, HB or HV :			
REMARK:			

## THE MATERIAL CERTS OF TEFLON

Customer		
Material	TEFLON	
Physical Properties		%
Physical Properties	Density g/cm <sup>3</sup>	2.14-2.2
	Water absorption %	>0.01
Mechanical Properties	Tensile strength kg/cm <sup>2</sup>	140-350
	Flexural strength kg/cm <sup>2</sup>	16.4
	Rockwell hardness	D55
	Izod impact strength kg cm/cm with notch	2.5-2.7
	Taper wears mg/1000 Times	
	Friction coefficients	0.1-0.04
Heat Properties	Coefficient of linear thermal expansion x 10 /°C	7.0-10.0
	Thermal conductivity kcal/m. Hr. °C	6.0
	Heat distortion temperatures °C	
	Heat resistance °C	260-278
Electrical Properties	Dielectric breakdown strengths KV/mm	43-50
	Coefficient of volume resistance Ω-cm	10 <sup>-2</sup>
REMARK:		



品越工業股份有限公司  
PREEMINENT INDUSTRIAL CO., LTD.

地址：台北縣新莊市民樂街 60.62.64.66 號  
ADD: 60, 62, 64, 66, MIN LO ST., HSIN CHUANG  
CITY, TAIPEI HSIEN, TAIWAN, R. O. C.  
TEL: (02) 29924567, 29933767, 29977355  
FAX: (02) 29947004

鍍層厚度報告單

FISCHERSCOPE X - R A Y TEST RECORD

品名規格 (SPECIFICATION):

備註 (REMARK):

Au U\* SAMPLE 5 PCS

N = 1	THICKNESS=	3.82	=	130.3
N = 2	THICKNESS=	3.93	=	137.1
N = 3	THICKNESS=	4.23	=	106.2
N = 4	THICKNESS=	4.02	=	113.9
N = 5	THICKNESS=	3.50	=	120.0

檢測結果 (RESULT):

**F I N A L R E S U L T**

DOUBLE COATING MEASUREMENT		
APPLICATION No.	=	5
Au / Ni / Cu	(u*)	Coll.2
	TOP COAT.	INT.COAT.
M E A N VALUE	= 3.902	= 121.52
STD. DEVIATION	= 0.2713	= 12.389
V meas. ( % )	= 6.952	= 10.195
LOWEST READING	= 3.500	= 106.23
HIGHEST READING	= 4.234	= 137.10
No. OF MEAS.	= 5	= 5
MEASURING TIME ( s )	=	30

**M E A N T H I C K N E S S**

APPLICATION No.	=	1
Au / Ni	(u*) STD.	Coll.2
M E A N T H I C K N E S S	=	1.735
STD. DEVIATION	=	0.0695
LOWEST READING	=	1.686
HIGHEST READING	=	1.784
No. OF MEAS.	=	2
MEASURING TIME ( s )	=	10

	品管 QC		主管 MANAGER	 合格 (ACCEPT) 品質保證 出貨品質 合格章 APPROVE
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# Test Report

澤雷精密電子有限公司  
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30053  
日期 : 2004/03/08  
頁數 : 1 of 3

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : BNC頭(外殼)  
收件日期 : 2004/03/01.  
測試日期 : 2004/03/01 TO 2004/03/08

測試結果 : - 請見下一頁 -

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

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TW 0000000

1/001



主件: 含電鍍

# Test Report

澤雷精密電子有限公司  
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30053  
日期 : 2004/03/08  
頁數 : 2 of 3

## 測試結果

測試部位 NO.1 : 鍍色金屬

通過

測試項目:	單位	測試方法	偵測極限值	結果			法規限值
				NO.1			
歐洲玩具標準EN 71 PART 3:1994(A1:2000)重金屬		依照歐洲玩具標準EN 71 PART 3:1994(A1:2000)					
溶出鉛	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	36.0			90
溶出鎘	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			60
溶出鉻	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2.5	< 2.5			25
溶出銅	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	10	< 10.0			1000
溶出錳	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			75
溶出鋅	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			60
溶出汞	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			60
溶出鈷	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			600

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TW 0055702



# Test Report

澤雷精密電子有限公司  
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30053  
日期 : 2004/03/08  
頁數 : 3 of 3

中心針-鋼

測試項目:	單位	測試方法	偵測極限值	結果				法規限值
				NO.1				
錫	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	25.9				-
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	25106.0				-

- 備註: (1) N.D. = Not detected.(<MDL) / 未檢出(低於偵測極限值)  
 (2) ppm = mg/kg / 百萬分之一  
 (3) MDL= Method Detection Limit(偵測極限值)  
 (4) " ---" = Not Applicable / 未測項目  
 (5) " -" = Not Regulation / 無規格值  
 (6) \*\*定性分析(無單位)  
 (7) Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)  
 (8) \* = 表示依法規規定調整之數據

- END -

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TW 0305721



# Test Report

澤雷精密電子有限公司  
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30054  
日期 : 2004/03/08  
頁數 : 1 of 3

*TEFLON*

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : BNC頭(白色膠蕊)  
收件日期 : 2004/03/01.  
測試日期 : 2004/03/01 TO 2004/03/08

測試結果 : - 請見下一頁 -

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

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TW 3000000





# Test Report

TG Flow

澤雷精密電子有限公司  
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30054  
日期 : 2004/03/08  
頁數 : 2 of 3

## 測試結果

測試部位 NO.1 : 白色塑膠

通過

測試項目:	單位	測試方法	偵測極限值	結果			法規限值
				NO.1			
歐洲玩具標準EN 71 PART 3:1994(A1:2000)重金屬		依照歐洲玩具標準EN 71 PART 3:1994(A1:2000)					
溶出鉛	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			90
溶出錒	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			60
溶出砷	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2.5	< 2.5			25
溶出銅	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	10	< 10.0			1000
溶出鎘	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			75
溶出鉻	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			60
溶出汞	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			60
溶出錳	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0			500

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TW 3003705



# Test Report

澤雷精密電子有限公司  
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30054  
日期 : 2004/03/08  
頁數 : 3 of 3

TEFLON

測試項目:	單位	測試方法	偵測極限值	結果				法規限值
				NO.1				
錫	ppm	依照 EN1122 方法B:2001或 其他酸消化方法,用感應耦 合電漿原子發射光譜儀 (ICP-AES)做分析	2	N.D.				-
鉛	ppm	依照 US EPA 3050B 方法或 其他酸消化方法,用感應耦 合電漿原子發射光譜儀 (ICP-AES)做分析	2	N.D.				-

- 備註: (1) N.D. = Not detected. (<MDL) / 未檢出(低於偵測極限值)  
 (2) ppm = mg/kg / 百萬分之一  
 (3) MDL= Method Detection Limit(偵測極限值)  
 (4) " --- " = Not Applicable / 未測項目  
 (5) " - " = Not Regulation / 無規格值  
 (6) \*\*定性分析(無單位)  
 (7) Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)  
 (8) \* = 表示依法規規定調整之數據

- END -



# Test Report

澤雷精密電子有限公司  
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30055  
日期 : 2004/03/08  
頁數 : 1 of 3

以下測試樣品乃供應商所提供及確認：

樣品名稱 : BNC頭(中心PIN)  
收件日期 : 2004/03/01.  
測試日期 : 2004/03/01 TO 2004/03/08

測試結果 : - 請見下一頁 -

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

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TW 30055000

SGS Taiwan Ltd. No. 138-1 Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan. / 台北縣五股工業區五工路138-1號  
台灣檢驗科技股份有限公司 (886-2) 2298-9929 (886-2) 2298-5237 www.sgs.com.tw

Member of SGS Group (Société Générale de Surveillance)

10041



中-檢針：金包鍍

# Test Report

澤雷精密電子有限公司  
桃園縣龜山鄉頂湖一街24號

報告號碼：CE/2004/30055  
日期：2004/03/08  
頁數：2 of 3

## 測試結果

測試部位 NO.1 : 金色金屬

通過

測試項目:	單位	測試方法	偵測極限值	結果				法規限值
				NO.1				
歐洲玩具標準EN 71 PART 3:1994(A1:2000)重金屬		依照歐洲玩具標準EN 71 PART 3:1994(A1:2000)						
溶出鉛	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	16.0				90
溶出錳	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				60
溶出砷	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2.5	< 2.5				25
溶出銅	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	10	< 10.0				1000
溶出鎘	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				75
溶出鉻	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				60
溶出汞	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				60
溶出錫	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				500

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TW 06055503



# Test Report

澤富精密電子有限公司  
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30055  
日期 : 2004/03/08  
頁數 : 3 of 3

主件: 銅

測試項目:	單位	測試方法	偵測極限值	結果					法規
				NO.1					
鎘	ppm	依照 EN1122 方法B:2001 或其他酸消化方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 做分析	2	27.0					
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 做分析	2	28468.0					

- 備註: (1) N.D. = Not detected. (<MDL) / 未檢出 (低於偵測極限值)  
 (2) ppm = mg/kg / 百萬分之一  
 (3) MDL = Method Detection Limit (偵測極限值)  
 (4) " --- " = Not Applicable / 未測項目  
 (5) " - " = Not Regulation / 無規格值  
 (6) \*\*定性分析 (無單位)  
 (7) Negative / 陰性 (未偵測到), Positive / 陽性 (已偵測到)  
 (8) \* = 表示依法規規定調整之數據

- END -

# APOLLO 5008

## Cyanoacrylate Adhesive

**Cyberbond APOLLO 5008** is a fast setting, medium viscosity general purpose adhesive. **APOLLO 5008** is a user friendly, cosmetically pleasing formulation that incorporates no-odor, non-blooming characteristics while maintaining excellent bond strengths. **APOLLO 5008** may eliminate the need for special ventilation.

### PHYSICAL PROPERTIES

#### MONOMER (Liquid)

Base Compound	Ethoxyethyl
Appearance	Colorless Liquid
Viscosity (cps @ 68F)	80 cPs
Specific Gravity (g/cc)	1.06
Flash Point (TCC)	176F
Shelf Life @ 40F	One year in unopened containers
Setting Time:(68F, 65%R.H.)	
Metal/Metal	40 Seconds
Plastic/Plastic	15 Seconds
Rubber/Rubber	10 Seconds

#### POLYMER (Cured)

Appearance	Colorless Solid
Service Temperature Range	-65F to 200F
Softening Point	293F
Refractive Index (ND 20)	1.49
Full Cure Time	24 Hours
Dielectric Strength KV/mm	12.6
Dielectric Constant @ 1Kc	5.4
Coefficient of Thermal Expansion (in./in./F)	.000126
Tensile Strength: Steel / Steel	2600 psi
Solubility	Nitromethane, Acetone, Dimethylformamide

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## A. NEW CYANOACRYLATE ADHESIVE APOLLO 5008

1. *APOLLO 5008* is a NON - BLOOMING and NO - ODOR cyanoacrylate adhesive. The whitening phenomenon of the bonding area is eliminated.
2. *APOLLO 5008* can be used for bonding a variety of metals, plastics, rubber, etc.

(Setting Time and Strength)		
Substrate	Setting time (sec.)	Tensile Shear Strength (N/mm <sup>2</sup> )
Steel/Steel	20	19.6
Aluminum/Aluminum	20	11.8
Stainless Steel/Stainless Steel	20	19.6
Copper/Copper	20	11.8
ABS/ABS	30	*5.9
Acrylic/Acrylic	100	*3.9
Rigid PVC/Rigid PVC	40	2.9
Phenol/Phenol	40	*6.9
Polycarbonate/Polycarbonate	60	*8.8
CR/CR	5	*0.5
NBR/NBR	5	*0.5
Steel/Rigid PVC	40	2.9
Steel/CR	10	*0.5

\* Substrate Failure

Test conditions : 23°C, 60%RH

Setting time, tensile shear strength apply correspondingly to JIS K 6861



# Test Report

奕星企業社  
330桃園市汴洲里健行路124號

報告號碼 : CE/2003/H1755  
日期 : 2003/12/02  
頁數 : 1 of 2

以下測試樣品乃供應廠商所提供及確認：

樣品名稱	:	固定螺釘(黑錫,小)
收件日期	:	2003/11/26.
測試日期	:	2003/11/26 TO 2003/12/02

測試結果 : - 請見下一頁 -

Stefan Hsu, M.R./Asst. Supervisor  
Signed for and on behalf of  
SGS TAIWAN LTD.

★Sample to be returned as requested★

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TEL: 0382601

SGS Taiwan Ltd. No. 136-1 Wu-Kang Road, Wu-Kang Industrial Zone, Tainan County, Taiwan / 台北縣五股工業區五工路136-1號  
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Member of SGS Group Société Générale de Services S.A.S.





# Test Report

奕星企業社  
330桃園市汴洲里健行路124號

報告號碼 : CE/2003/B1756  
日期 : 2003/12/02  
頁數 : 2 of 2

## 測試結果

測試部位 NO.1 : 測試樣品請看樣品卡

測試項目:	單位	測試方法	偵測極限值	結果			
				NO.1			
六價鉻	ppm	依照US EPA 7198A及3060A方法	2	N.D.			
錳	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	33.9			
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.			
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	30831.0			

- 備註: (1) N.D. = Not detected. (<MDL) / 未檢出(低於偵測極限值)  
 (2) ppm = mg/kg / 百萬分之一  
 (3) MDL = Method Detection Limit(偵測極限值)  
 (4) " --- " = Not Applicable / 未測項目  
 (5) " - " = Not Regulation / 無規格值  
 (6) "\*\*定性分析(無單位)"  
 (7) Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)

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W: 0362602

SGS Taiwan Ltd. No. 36-1 Wu Kong Road, Wu Kong Industrial Zone, Taipei City, Taiwan. / 台北縣五股工業區五二路136-1號  
 台灣檢驗科技股份有限公司 | (086) 21 2290-3939 | (886) 21 2290-3232 | www.sgs.com.tw  
 Member of SGS Group (Société Générale de Surveillance)

## Test Report

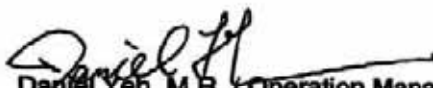
尚貫科技股份有限公司  
334桃園縣八德市大明街56號

報告號碼 : CE/2005/86967A  
日期 : 2005/09/05  
頁數 : 1 of 4

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : POWER 3460  
產品型號 : 瞬間膠  
收件日期 : 2005/08/30.  
測試日期 : 2005/08/30 TO 2005/09/05

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測試結果 : - 請見下一頁 -

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

# Test Report

尚貫科技股份有限公司  
334桃園縣八德市大明街56號

報告號碼 : CE/2005/86967A  
日期 : 2005/09/05  
頁數 : 2 of 4

## 測試結果

測試部位 NO.1 : 透明液體(請參照附件圖片)

測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法, 以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.
二溴聯苯	%		0.0005	N.D.
三溴聯苯	%		0.0005	N.D.
四溴聯苯	%		0.0005	N.D.
五溴聯苯	%		0.0005	N.D.
六溴聯苯	%		0.0005	N.D.
七溴聯苯	%		0.0005	N.D.
八溴聯苯	%		0.0005	N.D.
九溴聯苯	%		0.0005	N.D.
十溴聯苯	%		0.0005	N.D.
<b>總多溴聯苯 (PBBs)/以上總和</b>	%		-	N.D.
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法, 以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.
二溴聯苯醚	%		0.0005	N.D.
三溴聯苯醚	%		0.0005	N.D.
四溴聯苯醚	%		0.0005	N.D.
五溴聯苯醚	%		0.0005	N.D.
六溴聯苯醚	%		0.0005	N.D.
七溴聯苯醚	%		0.0005	N.D.
八溴聯苯醚	%		0.0005	N.D.
九溴聯苯醚	%		0.0005	N.D.
十溴聯苯醚	%		0.0005	N.D.
<b>總多溴聯苯醚 (PBDEs/PBDEs)/以上總和</b>	%		-	N.D.

# Test Report

尚貫科技股份有限公司  
334桃園縣八德市大明街56號

報告號碼 : CE/2005/86967A  
日期 : 2005/09/05  
頁數 : 3 of 4

測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS 做分析	2	N.D.
錳	ppm	依照 EN1122 方法B:2001或其他酸 消化方法,用感應耦合電漿原子發 射光譜儀(ICP-AES)做分析	2	N.D.
汞	ppm	依照 US EPA 3052 方法或其他酸 消化方法,用感應耦合電漿原子發 射光譜儀(ICP-AES)做分析	2	N.D.
鉛	ppm	依照 US EPA 3050B 方法或其他酸 消化方法,用感應耦合電漿原子發 射光譜儀(ICP-AES)做分析	2	N.D.

- 備註:(1) N.D. = Not detected.(<MDL) / 未檢出(低於偵測極限值)  
 (2) ppm = mg/kg / 百萬分之一  
 (3) MDL= Method Detection Limit(偵測極限值)  
 (4) " - " = Not Regulation / 無規格值

## Test Report

尚貫科技股份有限公司  
334桃園縣八德市大明街56號

報告號碼 : CE/2005/86967A  
日期 : 2005/09/05  
頁數 : 4 of 4

