# 亞旭電腦股份有限公司 樣 品 確 認 單

	一般	:承	.認	□條	件承認		退	件		_	94年	5月13日
料	號	:	3907-	001850			序	號 :	研 (	3 4	062	09 '
種	類	:	ANTEN	NA .			使用	機種:	RTA1	025V	V	
廠	牌	;	WHA Y	U	是否指	E □NO	供應	商:	譁裕			
規	格	:	ANTEN	NA,SMD,C407-51	0316-A,2.4~2.	5GHz 50R 1.5	+-0.25dBi	§ 1.13 C	ABLE L=85	inm m	urky gray,\	WHA YU講裕
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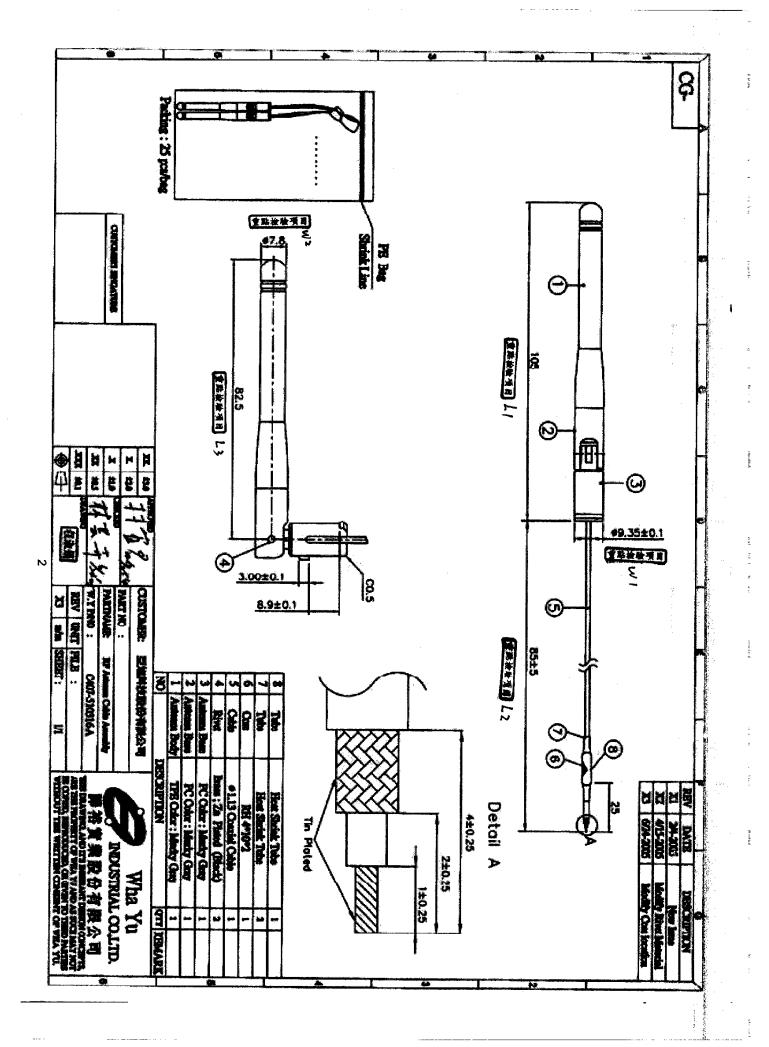
# 亞旭電腦股份有限公司原物料樣品測試報告

17 線材、機構、雜項類 (REV.01)

DATE: 94 / 05 / 13

料 號 3907-001850 品名規格 ANTENNA,SMD,C407-510316-A,2.4~2. 5GHz 50R 1.5+-0.25dBi § 1.13 CABLE L=85mm murky gray,WHA YU 譁裕

<u>—.</u> :	機構測量(單位	<u>:</u>	mm		)&電	<b>氢</b> 氣測量						
	實測	項	目	#	見 格	# 1	# 2	# 3	# 4	# 5	結 果	
⊚	長度			L1	105+ 5	104.50	104.68	104.66	104.73	104.60	<b>■</b> OK□FAII	
⊚	底部直徑			WI	9.35+-0.1	9.34	9.34	9.36	9.33	9.34	■OK□FAI	ᄓ
0	高度										□OK□FAI	$\overline{\mathbf{L}}$
0	PIN 腳Φ値一										□OK□FAI	$\mathbf{L}$
0	PIN 腳之長度										□OK□FAI	L
⊚	PIN腳之距離										□OK□FAI	L
	天線長度			L2	85+-5	85.64	86.47	86.30	85.37	85.86	■OK□FAII	
	頂端直徑			W2	7.8+-1	7.79	7.78	7.80	7.78	7.78	■OK□FAII	
	底部至90°長	:度		L3	82.5+-1	82.83	82.43	82.69	82.96	82.89	<b>■</b> OK□FAII	L
											□OK□FAI	L
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				<u>.</u>							□OK□FAI	$\mathbf{L}$
0	焊錫性(Solder	ability)									□OK□FAI	L
⊚	抗焊錫熱(Res	istanee	to Sol	derin	g Heat)						□OK□FAI	L
C	外觀					OK	OK	OK	ok	oK	■OK□FAII	
0	實裝於產品上	<del>,確認</del>	機構	で寸							□OK□FAI	L





WHA YU INDUSTRIAL CO., LTD. (HEAD OFFICE) TAI HWA ELECTRONIC CO., LTD.(CHINA) SHANGHAI HUA YU ELECTRONIC CO., LTD.(CHINA) AEON TECH CO., LTD. (CHINA)

# SPECIFICATION FOR APPROVAL

亞旭科技股份有限公司 CUSTOMER:

PART NAME: RF Antenna Cable Assembly

PART NO .: REVISION:

W. Y. P/NO.: C407-510316-A REV.: X3

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY:	相重	
DATE :	是话潭。,	

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蘇州華廣電通有限公司

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Wujiang City, Jiangsu Province, China

Tel: + 86-512-63627980 Fax: + 86-512-63627981

# **Contents**

ltem	Description	Page
1.	 天線規格表	1
2.	 成品圖	2
3.	 測試報告	3~6
4.	 Cable 規格	7~12
5.	 天線桿套材質特性	13~19
6.	 天線固定座材質特性	20
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8.	 熱縮套管材質特性	23~24
9.	 SGS測試	25~51

# RF Antenna Cable Assembly

# **Specification**

# 1. Electrical Properties:

1.1 Frequency Range	$\dots 2.4$ GHz $\sim 2.5$ GHz
1.2 Impedance	$\dots$ 50 $\Omega$ Nominal
1.3 VSWR	1.92 Max.
1.4 Return Loss	10 dB Maximum
1.5 Electrical Wave	1/2 λ Dipole
1.6 Antenna Gain	1.5±0.25dBi
1.7 Admitted Power	1W
1.8 Polarization	Linear

# 2. Physical Properties:

 2.1 Cable
  $\phi$ 1.13 Coaxial Cable

 2.2 Antenna Cover
 TPE

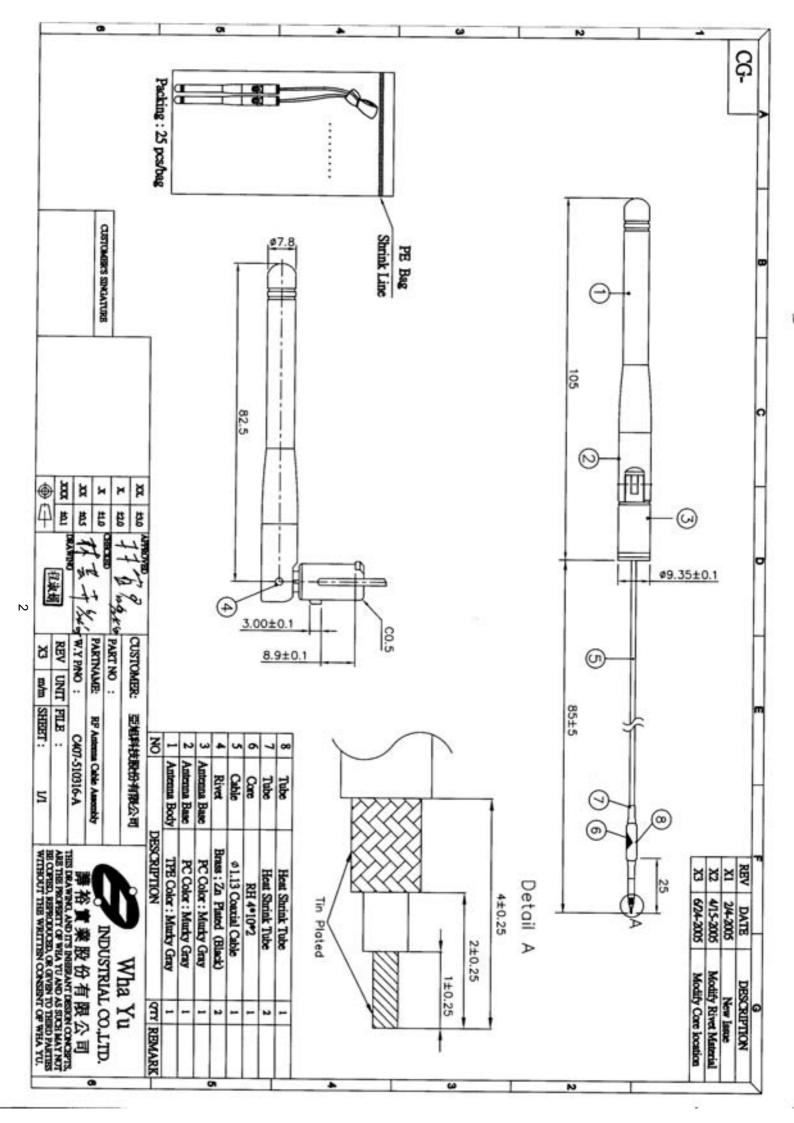
 2.3 Antenna Base
 PC

 2.4 Operating Temp
  $-20^{\circ}$ C  $\sim +65^{\circ}$ C

 2.5 Storage Temp
  $-30^{\circ}$ C  $\sim +75^{\circ}$ C

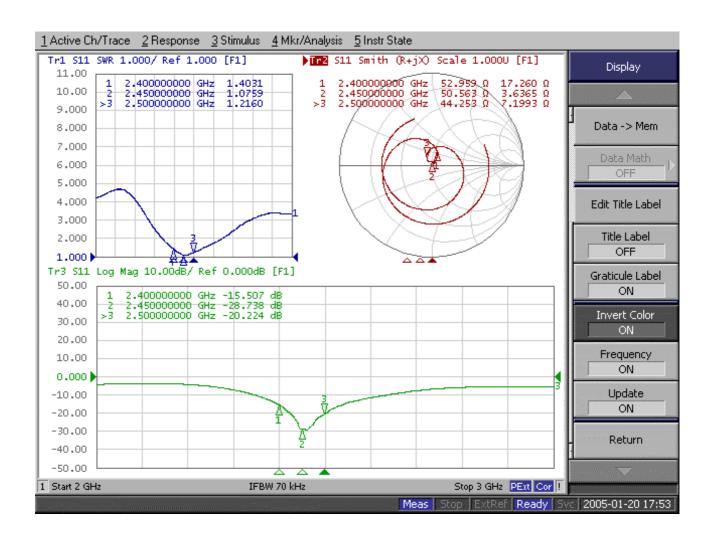
 2.6 Color
 Murky Gray

 2.7 Core
 RH 4\*10\*2

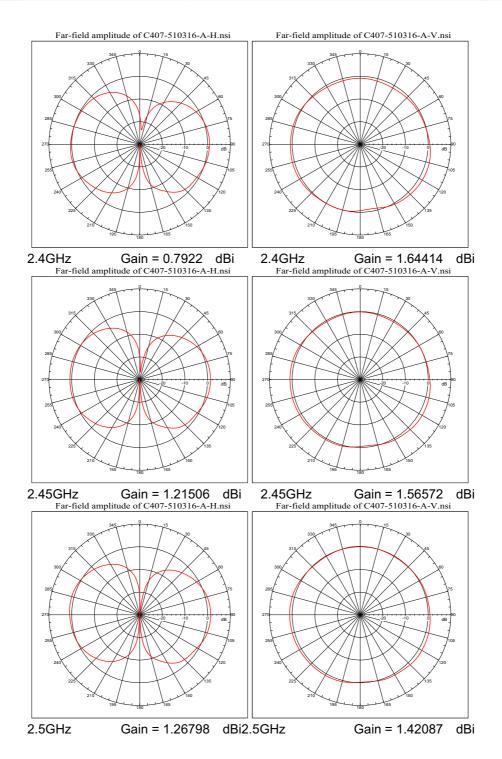




# RF Antenna Assembly P/NO :C407-510316-A SPEC : 2.4GHz

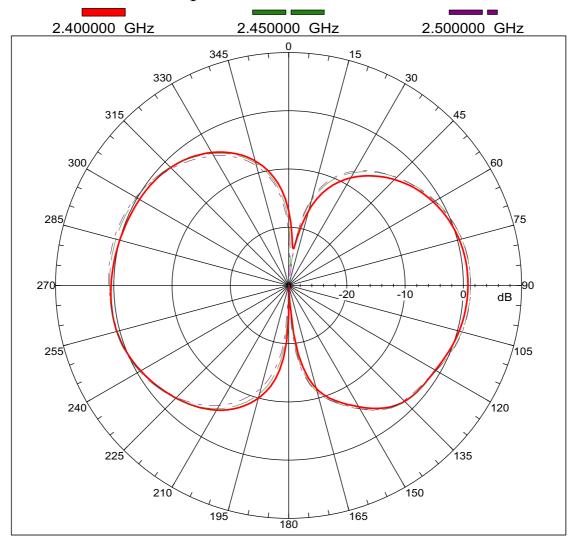


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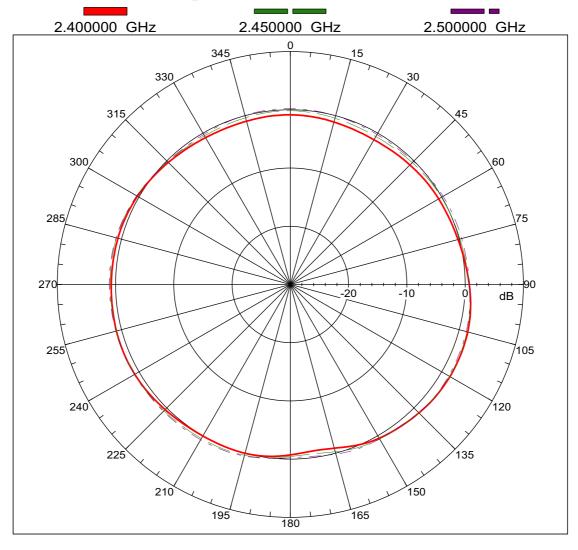


# Far-field amplitude of C407-510316-A-H.nsi





Far-field amplitude of C407-510316-A-V.nsi



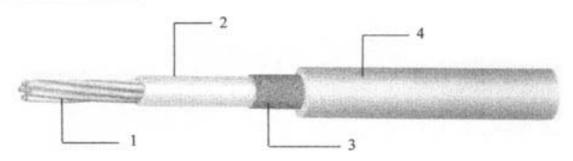
11-15 Santai Rd., Hsinchuang, Taipei Hsien, 242, Taiwan, R.O.C. Nizing Electric Co., Ltd. Tel: 02-29016164 Fax: 29050644 E-mail: shenbinnizing@yahoo.com.tw

A3132PS001	FEP INSULATED	PAGE	1/2
PRODUCT	HIGH-FREQUENCY COAXIAL	ISSUED	21. Oct. 2003
STANDARD	CABLE	REVISED	

# I - Scope

This specification presents a FEP insulated high-frequency coaxial cable AWG 32, 1.13 mm O.D. for internal wiring of electronic equipment, such as Computer / Notebook with wireless communication systems.

## II - Construction



Ite	em	Unit	Details	
1. Inner Conductor	Material	_	Silver coated copper	
	Composition	No./mm	AWG 32 or 7 × 0.08	
	Dia. (approx.)	mm	0.24	
2. Dielectric	Material		Extruded FEP	
	Thickness	mm	0.22	
	Nom. O.D.	mm	$0.68 \pm 0.02$	
	Color	_	Natural	
3. Outer Conductor	Material	-	Silver coated copper	
	Composition		Braided (16 / 4 / 0.05)	
	Dia. (approx)	mm	$0.90 \pm 0.03$	
4. Jacket	Material		Extruded FEP	
	Thickness	mm	0.10	
	Dia.	mm	1.13 + 0.05 / -0.08	
	Color	_	Standard colors are Light Grey, Black, Dark Grey	

Shen Bin chas MADE BY Note: APPROVALS

11-15 Santai Rd., Hsinchuang, Taipei Hsien, 242, Taiwan, R.O.C. Nizing Electric Co., Ltd. Tel: 02-29016164 Fax: 29050644 E-mail: shenbinnizing@yahoo.com.tw

A3132PS001	FEP INSULATED	PAGE	2/2
PRODUCT	HIGH-FREQUENCY COAXIAL	ISSUED	21. Oct. 2003
STANDARD	CABLE	REVISED	

# III - Characteristics

Item	Unit	Specified Value	Note
Temperature Rating	°C	200	
Voltage Lasting	V	250	
		Dielectric core: No breakdown at AC 1.5 kV for 0.15 sec.	Spark test
Dielectric strength	_	Jacket: No breakdown at AC 1.5 kV for 0.15 sec.	Spark test
		No breakdown at AC 500V for 1 min.	Outer conductor to inner conductor
Inner conductor resistance	Ω/km	525	at 20°C
Insulation resistance	$M\Omega/km$	Min. 1500	at 20°℃
Characteristic Impedance	Ω	50 ± 2	TDR method
Capacitance	pF/m	98	at 1 kHz
		2.0	1.0 GHz
		2.9	2.0 GHz
	ID /	3.6	3.0 GHz
Attenuation. (nom.)	dB/m	4.2	4.0 GHz
		4.7	5.0 GHz
		5.2	6.0 GHz
Approx. Weight	g/m	3.15	

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Note:		APPROVALS	Shen Bin chas

#### KURABE NDUSTRAL CO., LTD

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ISSUED	17-10-2003
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#### 1. SCOPE

This standard covers "FEP insulated High-Frequency coaxial cable".

These cable are approved by UL as Style 1979 AWM (File E-46702)

[UL1979:105°C,30V]

Use: Internal wiring of Class 2 Circuits of Electronic Equipment.

#### 2. CONSTRUCTION

Construction and dimensions of the cable are shown in Figure.1 and Table 1.

#### 3. PERFORMANCE

Performance of the finished cable is shown in Table 2. The test methods are in accordance with applicable test methods described in JIS C 3005.

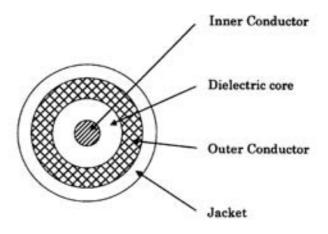


Figure 1.

NOTE:	MADE BY	
	APPROVALS	

## KURABE NDUSTRAL CO., LTD

SP3831K	PAGE	2/4
	ISSUED	17-10-2003
PRODUCT		200
STANDARD		

#### Table 1. Construction

I	tem	Unit	Specified Value			
	, Material		Material		Silver coated annealed copper wire	
Inner Conductor Stranding		No./mm	7/0.08			
Conductor	Dia.(approx.)	- 6.000000000000000000000000000000000000	0.24			
- Tarel Co	Material	+14-	FEP			
Dielectric	Thick.(nom.)	mm	0.22			
Core	Dia.	mm	0.68±0.05			
	Color		Natural			
	Material	M-100	Tinned annealed copper wire			
Outer	Туре	-	Braid (16/4/0.05)			
Conductor	Dia.(approx)	mm	0.93			
	Material		FEP			
	Thick.(nom.)	mm	0.10			
Jacket	Dia.	mm	1.13 +0.10/-0.06			
Color		_	Standard colors are white, black, brown, and gray.			

#### Table 2. Performance

Item	Unit	Specified Value	Note
Appearance	_	Faultless in visible	
Inner conductor resistance	Ω/km	Max.597	at 20℃
Insulation resistance	MΩ·km	Min.1500	at 20℃
		Dielectric core: No breakdown at AC1.5kV for 0.15sec.	Spark test
Dielectric strength	-	Jacket: No breakdown at AC1.5kV for 0.15sec.	Spark test
		No breakdown at AC500V for 1min.	Outer conductor to inner conductor
Heat resistance for solder	-	Shrink or expansion of dielectric core are not more than 0.5mm	*
Capacitance	pF/m	nom. 98	at 1kHz
Characteristic impedance	50+9		TDR method
		2.0	1.0GHz
The state of the s	1 2	2.9	2.0GHz
Attenuation	1 B	3.2	2.4GHz
(nom.)	dB/m	3.7	3.0GHz
(nom.)		4.3	4.0GHz
	0 0	4.8	5.0GHz
	3 - 2 - 3	5.3	6.0GHz

※ After immersion of dielectric core, 10mm into soldering pot which is 255℃ ±5℃ for 5 seconds, shrinkage or expansion of the dielectric core must not exceed 0.5mm.

NOTE :	MADE BY	
	APPROVALS	

SP3831K	PAGE	3/4
	ISSUED	17-10-200
PRODUCT STANDARD		
4. INSPECTION	The second of the second	10000000
An inspection is took place in accordance	ce with applicable test methods. The	cable has to p
the specifications described Table 1 and T	able 2.	
5. TEST METHOD		
The test methods are in accordance wit	h applicable test methods described in	JIS C 3005
(Test methods for rubber or plastic insula	ted wires and cables).	
6. TEMPERATURE RATING		
105 ℃		
7. VOLATGE RATING		
30 V		
8. MARKING ON TAG		
Each reel of finished cable is tagged to i	indicate following information:	
(1) Designation of the cable (Style		
(2) Maximum working voltage,		
(3) Maximum working temperature,		
(4) Conductor size,		
(5) Nominal insulation thickness,		
(6) Length,		90
(7) Date of manufacture or LOT No	0.,	
(8) Manufacture's name,		
(9) Specification No., and		
(10) Use of cable, and		
9. PACKAGE		
The finished cables are cut into a ship	pping length of 200 meters, reeled to p	paper bobbin a
packed securely to prevent injuries duri	ing transportation.	
Note: Odd length of the finished wires, wh	nich are not shorter than 50 meters ma	y be accepted
shipping.		

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NOTE:

#### KURABE NDUSTRAL CO., LTD

SP3831K	FEP INSULATED	PAGE	4/4
	HIGH-FREQUENCY COAXIAL	ISSUED	17-10-2003
PRODUCT STANDARD	CABLE (FWS 5030) UL 1979	REVISED	
10. APPLICATION	NOTES	391102012	
each practica	er than the use mutually agreed, compatibility sl l use by user. sended to make a trial run for each practical appl		lly confirmed
necessary.  and twisting. life span of ca  10-4. Handling pre  Do not hurt the any sharp edg  Avoid unneces	ne insulation and sheath of the cable by making e when wiring so as not to injure cables. sary excessive force to cable, such as pulling, twi	ch as hard bend cause not only strength. holes and scrat	shortening t
10-5. Storage prec	autions ous exposure to sunlight.		
			**
			*
			**

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NOTE:

# **Arnitel**polyether esters polyetherester esters de polyether

Γ	1
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ΞL	.63

Units Einheiten Unites	EM400	EM460	EL550	EL630	EL740	PL380
Cincos	1.12	1.16	1.20	1.23	1.27	1.18
$^{\circ}\mathbb{C}$	195	185	202	212	221	197
μ m/m.k	220	160	180	140	110	150
°C	\	\	110	115	120	\
$^{\circ}\! { m C}$	130	150	180	200	200	145
$^{\circ}\! \mathbb{C}$	\	50	85	115	150	\
<b>%</b>	0.30	0.30	0.20	0.20	0.15	0.40
%	0.75	0.70	0.55	0.60	0.90	7.0
*	HB	HB	HB	HB	HB	HB
Mpa	55	110	220	375	900	60
1						
Mpa	4.0	7.1	13.2	20.2	26.9	3.5
Mpa	5.4	9.0	15.7	23	22.6	5.2
Mpa	8.4	11.4	16.6	22.0	26.3	8.5
Mpa	17	21	32	40	45	16
%	700	800	600	600	360	450
<b>kj</b> /m²	NB	NB	NB	NB	NB	NB
<b>kj</b> /m²	NB	NB	NB	NB	200	NB
<b>kj</b> /m²	NB	NB	NB	NB	9	NB
kj/m²	NB	NB	20	4	4	NB
	38	45	55	63	74	38
MV/m	\	\	\	\	\	\
$\Omega$ .cm	5*10 <sup>14</sup>	$10^{14}$	$10^{14}$	$10^{14}$	$10^{12}$	$10^{12}$
Ω	>1013	>1014	>1014	>1014	>1010	>1013
\	4.1	\	\	3.8	\	4.7
`	4.0	4.4	4.0	3.4	3.3	4.4
1				<i>-</i>		
$x10^{14}$	10	\	\	3.8	\	310
$x10^{14}$	170	350	400	350	300	350
\	800	800	600	600	600	800
\	600	600	600	800	800	600

#### Arnitel

#### 2.2 Product coding

The structure of the Arnitel productcodes is illustrated wirth the following example:

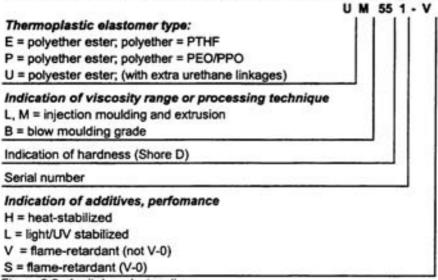


Figure 2.2: Arnitel product coding

#### 2.3 Product portfolio

The Amitel productrange is available with a hardness from 38 to 74 Shore D. The general Amitel grades are shown in table 2.2. In order to enhance the flexibility of the portfolio a set of masterbatches (a.o. for heat, UV, etc) are on offer (refer to § 2.4).

Because of the development of these masterbatches heat stabilised Amitel P is suggested for application areas where thermo-oxidative stability is an issue. For applications where colour and UV stability is required, the Amitel E range is advised.

	Shore D					
Amitel E	38 11 11 11	<b>40</b> EM400	46 :: EM460	55 EL550 EM550	63 EL630 EM630	74 EL740 EM740
Arnitel P	PL380		PL460	PL580 PM581		
Amitel U				UM551 UM551-V	UM622	
				UM552 UM552-V		

Table 2.2: Arnitel productrange for general purpose

Besides these multi-purpose grades, specialty grades can be offered for specific purposes and/or application areas. These grades are not intended for regular sales and are therefore restricted. Permission from marketing is needed before sampling is initiated.

Automotive	A'tel E	A'telP	A'tel U
<ul> <li>CVJ boots</li> </ul>	EB460		
	EB463		
	EB464		
<ul> <li>Boyplugs</li> </ul>		PL380-M0	
Extrusion			
<ul> <li>Roofing foil</li> </ul>	EM402-L		
Table 2.3: Example	s of specialty g	rades	

#### 2.8.31 General:

Amitel is the brand name of a series polyester based thermoplastic elastomers. These polymers combine excellent processability with good elastomeric properties between -40 and 200°C. Amitel EL630 and EM630 are excellent materials for injection moulding and extrusion applications respectively. The chemical stucture of Amitel EL630/EM630 is shown below.

Figure 2.9: Chemical structure of Arnitel EL630/EM630.

Another way of writing the structure of Arnitels is shown below in Figure 2.

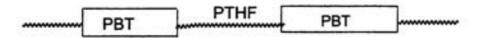


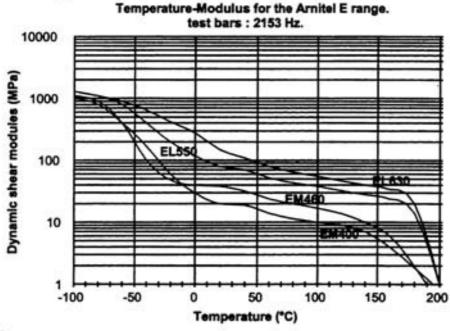
Figure 2.10: Simplified structure of Arnitel EL630/EM630.

Amitel EL630/EM630 is TOSCA registered (including DSL-Canada) under CAS 37282-12-5

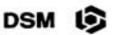
#### 2.8.32 Thermal properties:

#### Modulus-temperature behaviour:

The materials have a glass transition at circa -40°C and a typical melting point at 213°C. The modulus-temperature behaviour is shown in graph 2.76, for comparison, accompanied by other Amitel E types.



Graph 2.76: Modulus-temperature behaviour of Amitel EL630/EM630.



Although information on performance at higher temperatures may be extracted from the above shown graph, a Vicat or HDT are shown in table 2.29.

analysis	SI unit	typical data	test method
Vicat A	(°C)	200	ISO 306/A
Vicat B	(°C)	125	ISO 306/B
HDT-B	(°C)	115	ISO 75-1

Table 2.29: Vicat and HDT data on Amitel® EL630 and EM630

Arnitel EL630 and EM630 have a melting point of 213°C as found in the second heating curve of a DSC. The polymer will crystallize at 155°C using a 20°C/min cooling rate.

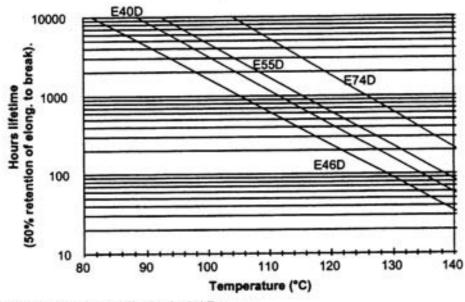
The thermal expansion coefficient of Amitel EL630/EM630 and is 140\*10\* μm/m.K.

#### · Heat aging:

Arnitel EL630/EM630 shows an optimum between heat resistance and colour stability. Heat aging for EL630/EM630 is under test at this moment, however the data will be between EL550 and EL740. Arrhenius curves of thermo-oxidative heat aging are shown in graph 2.77. Criterium chosen is retention of 50% original elongation at break.

Heat aging of Arnitel E40D, 46D, 55D and 74D.

#### Natural products, Arrhenius plot.



Graph 2.77: Heat stability for Amitel E-range.

Heat ageing can be improve using a stabilisation masterbatch, however for heat stabilisation the P-range is preferred for it's excellence in performance. These data can be found in the Amitel properties summary or an Amitel P datasheet.

2.8.33 Processing and Handling:

Amitel EL630/EM630 is a polyester with a density of 1.12 g/cm<sup>3</sup> according ISO 1183.

Due to the polyester nature of these materials it is of major importance to store the material dry prior to processing. Materials packaged in sealed packaging should have a moisture content lower then 500 ppm. The polymer will contain 0.12% moisture in 50% RH and 0.58% water after saturation in water. Both numbers are in equilibrium.

If samples have become wet during storage a drying step of 24 hours 120°C (or 6 hours 140°C) prior to use will prevent degradation of the material during processing combined with an eventual loss of properties. The air or nitrogen will have to have a dew point of at least -30°C.



Processing:

Armitel EL630/EM630 shows a single melting point at 195°C in DSC. Processing conditions are shown in the table below.

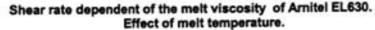
polymer	zone 1	zone 2	zone 3	additional	melt	mold
EL630	225	230	235	235	225-235	20-50
EM630	225	230	235	235	235	50

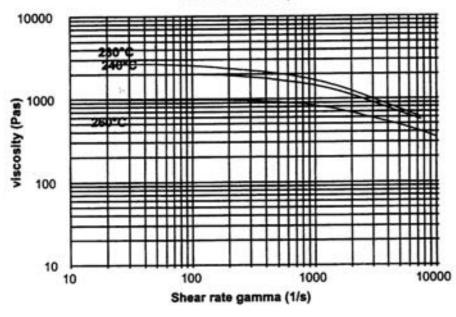
All temperatures are in °C.

Table 2.30: Processing conditions for Amitel EL630 and Amitel EM630.

#### Rheology:

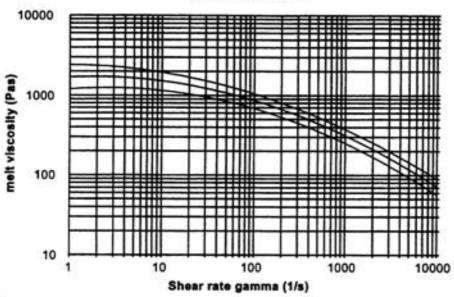
The temperature depending melt viscosity of Amitel EL630/EM630 and are shown below in graph 2.80 and 2.81 respectively.







Capillar melt viscosity of Arnitel EM630. 240, 250 and 260°C.



Graph 2.80 and 2.81: Temperature dependancy of the melt viscosity for Arnitel EL630 and EM630 .

The MFI values are shown in table 2.31.

		EL630	EM630	
MFI 230°C	g/10 min		7	ISO 1133
MFI 240°C	g/10 min	30		ISO 1133

Table 2.31: MFI for Amitel EL630/EM630.

#### · Use of regrind:

Amitel can readily be recycled. If the MFI of the regrind is up or down to four points higher, 20% can be recycled. A difference of 2 MFI points allows up to 50% of regrind. Obviously the regrind should be dried properly before use.

#### 2.8.34 Mechanical properties:

If Arnitel EL630 or Arnitel EM630 are processed properly the materials will have mechanical properties as shown in table 2.32.

Mechanical property	SI Unit	typica	data*	test method
		EL630	EM630	St. Company
Hardness	Shore D	63	63	ISO 868
Tensile modulus (1 mm/min)	MPa	330	330	ISO 527
Tensile strength (50 mm/min)	MPa	30	30	ISO 527
Strain at break	%	350	350	ISO 527
Tensile stress at 5% strain	Mpa	11.5	11.5	
Tensile stress at 10% strain	Mpa	15.9	15.9	
Tensile stress at 50% strain	Mpa	17.3	17.3	
Tear strength Graves	KN/m	145	145	DIN53515
Izod notched 23°C (73°F)	KJ/m²	NB	NB	ISO 180/1A
tzod notched -30°C (-22°F)	KJ/m²	4	4	ISO 180/1A
Charpy notched 23°C (73°F)	KJ/m²	NB	NB	ISO 179/1eA
Charpy notched -30°C (-22°F)	KJ/m²	12	12	ISO 179/1eA

Data for dry natural materials.

Table 2.32: mechanical properties of Arnitel® EL630.

NB: No Break



#### · Abrasion:

Amitels show good abrasion resistance in both Taber and DIN 53516 abrasion tests. Data are shoen in the Amitel general property overview (also included in the EPIC)

#### 2.8.35 Flame retardancy:

Amitel EL630 and EM630 show in an ISO1210/A flammability test a burning rate leading to a classification FH-1. Flame retardancy can be improved using a halogenated or halogen free FR masterbatch.

#### 2.8.36 Electrical properties:

Amitel EL630/EM630 can be used for cable jacketting applications. If the material is in permanent contact with copper a copper stabilisation package should be added. If the copper wires are coated with a tin layer, no stabilisation is necessary. The electrical properties are shown in table 33.

Electrical property	SI Unit	typica d	lata*	test method
	GIVE 2	EL630	EM630	
Dielectric strength	KV/mm	22	22	IEC 243-1
Relative permittivity (ε,) at 1 kHz		4.4	4.4	IEC 250
Dissipation factor (tan δ) at 1kHz		0.019	0.019	IEC 250
Comparative tracking index		600	600	IEC 112
Volume resistivity	10 <sup>14</sup> Ω.cm	1	1	IEC 93
Surface resistivity	10 <sup>14</sup> Ω	1	1	IEC 93

Table 2.33: Typical electrical properties of Arnitel® EL630 and EM630.

#### 2.8.37 Chemical resistance:

Amitel EL630 and EM630 are sensitive to strong bases and strong acids, especially at elevated temperatures. In some halogenated hydrocarbons (like tetrachloroethane), the materials (partially) dissolves. For a full review on chemical resistance of Amitel EL630 and EM630 request the chemical resistance brochure.

#### Hydrolysis

Like all polyesters Arnitel are sensitive to moisture, however Arnitels are more stable to water then e.g. PET and PBT, graph 2.84 shows the hydrolytic stability of Arnitel EL630 at 100°C and in steam (120°C). For improved hydrolysis stability, using a polycarbodlimid containing masterbatch like Stabaxol® in an option. To maintain all other properties use a masterbatch based on polyester. Data on the Stabaxol stabilised grade are shown in graph 2.85.

#### ■Panlite L-1250Z

Category	Unit	Test Method	Condition	L-1250Z 100
Melt volume flow rate	cm <sup>3</sup> /10min	ISO 1133	300°C load 1.2kg	8
Density	kg/m³	ISO 1183	-	1200
Water absorption rate	96	ISO 62	in water 23°C24h	0.2
Light transmission	96	ASTM D 1003	thickness 3mm	88
Refractive index	-	ASTM D 542	-	1.585
Tensile modulus	MPa		1mm/min	2400
Tensile stress at yield	MPa	ISO 527-1	50mm/min	61
Tensile strain at yield	96	and	50mm/min	6
Nominal tensile strain at break	96	ISO 527-2	50mm/min	>50
Flexural modulus	MPa	100 170	2mm/min	2350
Flexural strength	MPa	ISO 178	2mm/min	93
Chamailtean de annual	W.1. 2	100 170	unnotched	NB
Charpy impact strength	KJ/m²	ISO 179	notched	76
Heat deflection	°C	ISO 75-1 and ISO 75-2	1.80MPa	129
temperature			0.45MPa	142
Vicat softening temperature	°C	ISO 306	50°C/h 50N	149
Mold shrinkage	96	In-house method	parallel	0.5~0.7
more similage	70		vertical	0.5~0.7
Coefficient of linear	× 10 <sup>-4</sup> /°C	ISO 11359-2	parallel	0.7
expansion	×10 / C	130 11339-2	vertical	0.7
Specific inductive	-	IEC 60250	100Hz	3.1
capacity		IEC 60250	1MHz	3
Dielectric loss tangent	× 10 <sup>-4</sup>	IEC 60250	100Hz	10
Didiccure loss tangent	× 10 <sup>-4</sup>	IEC 60230	1MHz	90
Volume resistivity	Ω·m	IEC 60093	_	>1 × 10 <sup>13</sup>
Surface resistivity	Ω	IEC 60093	-	>1 × 10 <sup>15</sup>
Withstand voltage	MV/m	IEC 60243-1	short time test	30
Tracking resistance	-	IEC 60112	-	250
Flammability	-	UL 94	-	V-2 (0.40mm) HB(1.5mm)
		CONTONUE MADE	electric 1.47mmt	125
Temperature index	°C	UL 746B	impact 1.47mmt	115
			non-impact 1.47mmt	125

<sup>※</sup>The values listed are specification values, not certified values.

# **SPECIFICATION**

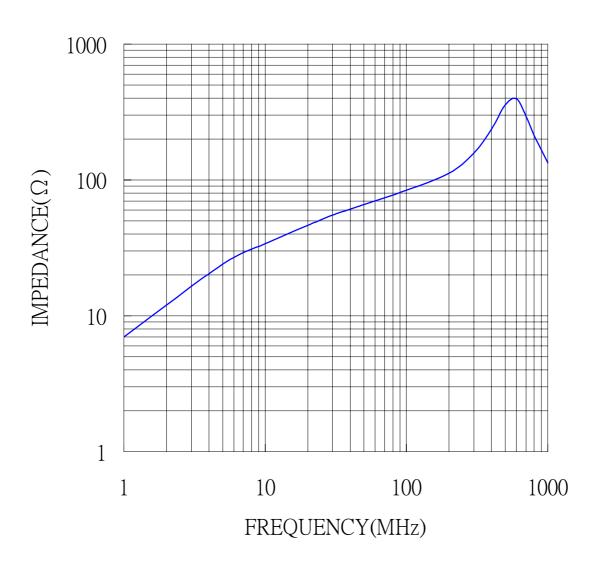
CUSTOMER:					CU	ST.P/N:		
ITEM:	K5B RH 4x	10x2			K.C	LP/N:	PS0404IA	
(1) SHAPE:					A	4±0.2		m/m
					В	10±0.4		m/m
	. /-ØC				C	2±0.15		m/m
	1		)		D			m/m
	$+(\widehat{+})$		1		E			m/m
		c	5		F			m/m
	- A	- B	-		G			m/m
(2)ELECTRICA	L REQUIRI	EMENTS:			(3) 1	EST CON	DITIONS:	
$Z_1 = 37$	-0 OHM	AT 25	MHz		1 IMP	EDANCE ANA	ALYZER:	HP4191A
$Z_2 = 63$	-0 OHM	AT 100	MHz		TE	ST FIXTURE:		HP16092A
						:Φ0.65 T.C.W*	63m/m1/2TS	
					3.DRAV	VING:		
							23	20
(4)PACKING					(5) A	PPEARAN	ICE	
X	IN BULK	VACUUM		INSERTION			:	<2 m/m2
2000 PCS/BAGS*	4 BAG/INNER	BOX* 4	BOXES/C	'ARTON = 32000 PCS	(2)SUM (	OF BREAKING AI	REA :	<3 m/m2
PCS/PLATE	* PLATES/CAR	TON=	PCS		(3)DEP	TH OF BREAK	:	<1 m/m
PCS/TRAY*	TRAYS/CART	TON=	PCS					
(6)REMARK:					App	proved by		
					Che	cked by		
					Dra	wn by		
					DW	G.NO.		



King Core Electronics Inc. Tel:886-3-4782511(Rep.)

E-mail: kc@mail.kingcore.com.tw

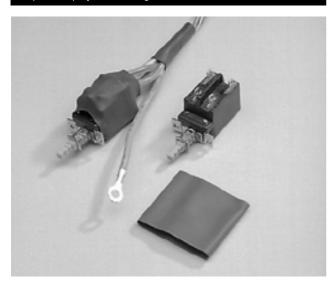
# K5B RH 4x10x2 PS0404IA





## Versafit V2

Highly flame-retardant, very flexible, low-shrink-temperature polyolefin tubing



Fax-on-Demand: (800) 260-9099 (650) 361-6523

Before ordering check with factory for most current data.

FAX ID	Description
2222	Data sheet
2221	RT-1136

#### Applications

Cost-effective choice for many commercial and military applications; electrically insulates and protects in-line components, disconnect terminals, and splices. Bundles wires for very flexible light-duty harnesses. Strain-relieves electrical wire connections for commercial applications. Identifies or color-codes wires, cables, terminals, and components.

#### **Operating Temperature Range**

-55°C to 125°C

#### Features/Benefits

- 2:1 shrink ratio.
- Low shrink temperature reduces installation time and the risk of damage to temperature-sensitive components.
- · Very flexible; doesn't easily wrinkle when bent.
- · Hot stamps extremely well.
- Free of polybrominated biphenyls (PBBs) and polybrominated biphenyl oxides and ethers (PBBOs and PBBEs), which are classified as environmentally hazardous substances.
- Higher temperature rating, better thermal stability, and higher resistance to physical abuse than noncrosslinked materials.

#### Installation

Minimum shrink temperature: 70°C Minimum full recovery temperature: 90°C

#### Specifications/Approvals





Series	UL	CSA	Raychem
Versafit	E35586 VW-1 600 V, 125°C	LR31929 OFT 600 V, 125°C	RW-3023

#### Product Dimensions (mm)

	As supplied		After shrir	nkage
Size	Inside diameter	Wall thickness (nominal)	Inside diameter (max.)	Wall thickness* (min.)
1.0	1.6 ±0.2	0.2	0.5	0.33
1.5	2.1 ±0.2	0.2	0.75	0.35
2.0	2.6 ±0.2	0.25	1.0	0.43
2.5	3.1 ±0.2	0.25	1.25	0.43
3.0	3.6 ±0.2	0.25	1.5	0.43
3.5	4.1 ±0.3	0.25	1.75	0.43
4.0	4.6 ±0.3	0.25	2.0	0.43
5.0	5.6 ±0.3	0.3	2.5	0.56
6.0	6.6 ±0.3	0.3	3.0	0.56
7.0	7.6 ±0.3	0.3	3.5	0.56
8.0	8.6 ±0.3	0.3	4.0	0.56
9.0	9.6 ±0.3	0.3	4.5	0.56
10.0	10.4 ±0.3	0.3	5.0	0.56

wall trickness will be less if tubing recovery is restricted during similkage.	*Wall thickness will be less if tubing recovery is restricted	ed during shrinkage.
--	---	----------------------

As supplied		After shrir	inkage	
Size	Inside diameter	Wall thickness (nominal)	Inside diameter (max.)	Wall thickness* (min.)
11.0	11.4 ±0.3	0.3	5.5	0.56
12.0	12.7 ±0.3	0.3	6.0	0.56
13.0	13.5 ±0.3	0.35	6.5	0.66
14.0	14.4 ±0.4	0.35	7.0	0.68
15.0	15.7 ±0.4	0.35	7.5	0.68
16.0	16.9 ±0.4	0.35	8.0	0.68
18.0	19.0 ±0.4	0.4	9.0	0.76
20.0	21.4 ±0.4	0.4	10.0	0.76
22.0	23.2 ±0.4	0.45	11.0	0.89
25.0	26.8 ±0.4	0.45	12.5	0.89
27.0	28.2 ±0.5	0.45	12.5	0.89
28.0	30.0 ±0.5	0.45	14.0	0.89
30.0	32.1 ±0.5	0.45	15.0	0.89

#### **Ordering Information**

Color	Standard Black (-0), white (-9), red (-2), blue (-6), yellow (-4), green (-5)			
	Nonstandard Orange (-3), violet (-7), brown (-1), gray (-8)			
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.			
Standard packaging	On spools.			
Marking	Marked with UL/CSA/-F- legends.			
Ordering description	Specify product name, size, and color (for example, Versafit V2-3.0-0).			

Versafit is a trademark of Raychem Corporation.

Fax-on-Demand: (800) 260-9099 (650) 361-6523

Before ordering check with factory for most current data.

FAX ID	Description
2240	Data sheet
2590	RW-3010

# Versafit V4

Very-thin-wall, very flexible, highly flame-retardant polyolefin tubing

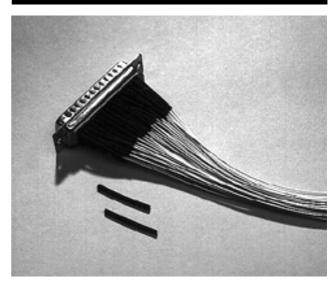
Typically used where space saving is important. Offers the ability to pack components more closely than is possible with standard tubings. Cost-effective choice for many commercial applications; electrically insulates and protects in-line components, disconnect terminals, and splices. Used for strain relief on high-density connectors.

# Operating Temperature Range -55°C to 125°C

#### Features/Benefits

- · 2:1 shrink ratio.
- · Very thin wall provides space savings and rapid shrinking.
- · Low shrink temperature further reduces installation time and risk of damage to temperature-sensitive components.
- · Very flexible; doesn't easily wrinkle when bent.
- Free of polybrominated biphenyls (PBBs) and polybrominated biphenyl oxides and ethers (PBBOs and PBBEs), which are classified as environmentally hazardous substances.

Minimum shrink temperature: 70°C Minimum full recovery temperature: 90°C



#### **Specifications/Approvals**

® <b>//</b>	



Series UL CSA Raychem Versafit V4 RW-3010 E35586 VW-1 LR31929 OFT 300 V, 125°C 150 V, 125°C

#### **Product Dimensions**

	As supplied		After shrink	age		As supplied	
Metric sizes	Inside Diameter	Wall thickness (nominal)	Inside diameter (max.)	Wall thickness* (min.)	Size	Inside diameter	Wall thickn
1.0/0.5	1.4 ±0.25	0.1	0.5	0.25	5.0/2.5	5.5 ±0.25	0.15
1.5/0.75	1.9 ±0.25	0.1	0.75	0.25	6.0/3.0	6.5 ±0.4	0.15
2.0/1.0	2.3 ±0.25	0.1	1.0	0.25	7.0/3.5	7.5 ±0.4	0.15
2.5/1.25	2.8 ±0.25	0.15	1.25	0.25	8.0/4.0	8.5 ±0.4	0.15
3.0/1.5	3.3 ±0.25	0.15	1.5	0.25	9.0/4.5	9.5 ±0.4	0.15
3.5/1.75	3.8 ±0.25	0.15	1.75	0.25	10.0/5.0	10.5 ±0.5	0.15
4.0/2.0	4.4 ±0.25	0.15	2.0	0.25			
Inch size	es (mm/ <i>in</i> )						
3/64	1.2 (.046)	0.6 (.023)	.30 ±.05 (.01	2 ±.002)	1/4	6.4 (.250)	3.2
1/16	1.6 (.063)	0.8 (.031)	.30 ±.05 (.01	2 ±.002)	3/8	9.5 (.375)	4.8
3/32	2.4 (.093)	1.2 (.046)	.30 ±.05 (.01	2 ±.002)	1/2	<b>12.7</b> (.500)	6.4
1/8	3.2 (.125)	1.6 (.062)	.33 ±.05 (.01	3 ±.002)	3/4	<b>19.1</b> (.750)	9.5
3/16	4.8 (.187)	<b>2.4</b> (.093)	.33 ±.05 (.01	3 ±.002)	1	<b>25.4</b> (1.000)	12.7
*\^/=!! + =!=!=	طارية كالمحمد المطا الأندي		and alcology about a least				

Size	Inside diameter	Wall thickness	Inside diameter (max.)	Wall thickness* (min.)
5.0/2.5	5.5 ±0.25	0.15	2.5	0.25
6.0/3.0	6.5 ±0.4	0.15	3.0	0.28
7.0/3.5	7.5 ±0.4	0.15	3.5	0.28
8.0/4.0	8.5 ±0.4	0.15	4.0	0.28
9.0/4.5	9.5 ±0.4	0.15	4.5	0.28
10.0/5.0	10.5 ±0.5	0.15	5.0	0.28
1/4	6.4 (.250)	<b>3.2</b> (.125)	.36 ±.05	014 ±.002)
3/8	9.5 (.375)	<b>4.8</b> (.187)	.36 ±.05	014 ±.002)
1/2	<b>12.7</b> (.500)	<b>6.4</b> (.250)	.36 ±.05 (.0	014 ±.002)
3/4	<b>19.1</b> (.750)	9.5 (.375)	.46 ±.08 (.0	017 ±.003)

(.500) .51 ±.08

After shrinkage

#### **Ordering Information**

Color	Standard Black (-0)			
	Nonstandard Other colors available upon request.			
Size selection	Always order the largest size that will shrink snugly over the component to be covered.  Special order sizes are available upon request.			
Standard packaging	On spools.			
Marking	Marked with UL/CSA/-F- legends.			
Ordering description	Specify product name, size, and color (for example, Versafit V4-1.0-0).			

Versafit is a trademark of Raychem Corporation.

 $(.020 \pm .003)$ 

<sup>\*</sup>Wall thickness will be less if tubing recovery is restricted during shrinkage

# **SGS Test Report**

**Product**: **RF** Antenna

# Contents

No	D	escription	Report No.	Page
1	Cable	$\varphi$ 1.13mm Cable	C411101	P.26~28
2	Antenna Body	TPE EL-630	CE/2004/B2799	P.29~30
3	Antenna Base	Antenna Base PC L-1250Z CE/2004/C2403		P.31~33
4	Rivet	Brass , Zn Plated	Plated CE/2005/12479A CE/2004/B4814B	
5	Core	RH 4*10*2	CE/2004/C3816	P.39~41
6	H.S Tube	Heat Shrink Tube	SH519043/CHEM	P.42~51

Total Weight: 6.85g

**Result for RoHS: PASS** 

Page: 1 of 3

Report No. C411101 Date: Jul. 27, 2004

#### **TEST REPORT**

#### APPLICANT

Kurabe Industrial Co., Ltd. 4830 Takatsuka-Cho Hamamatsu-Shi Shizuoka-Ken, Japan

#### SAMPLE DESCRIPTION

One (1) group of submitted samples said to be: Item name : FWS 5030 / FWS5032

Date sample received : Jul. 20, 2004

Date test started : Jul. 22, 2004

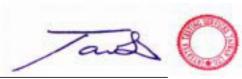
\*

#### TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

\*

Prepared and checked by: For Intertek Testing Services Taiwan Limited



Jacob Lin General Manager This report shall not be reproduced except in full, without the written approval of the laboratory.

Page: 2 of 3

Report No. C411101 Date: Jul. 27, 2004

#### TEST CONDUCTED

#### (A) Test result summary:

Tooting item	Result (ppm)
<u>Testing item</u>	Submitted samples
Cadmium (Cd) content / 鎘含量	ND
Lead (Pb) content / 鉛含量	ND
Mercury (Hg) content / 汞含量	ND
Chromium VI (Cr <sup>6+</sup> ) content / 六價鉻含量	ND
PBBs/PBDEs / 多溴聯苯/溴聯苯醚	ND
Polychlorinated biphenyls (PCBs) / 多氯聯苯	ND
Polychlorinated naphthalenes (PCNs) / 多氯化萘	ND
Chlorinated paraffins / 氯化石蠟 (C10~C13)	ND
Formaldehyde / 甲醛	ND
Polyvinyl chloride (PVC) / 聚氯乙烯和聚氯乙烯混合物	ND
Organic tin compounds (Tributyl tin compounds, triphenyl tin compounds) / 有機錫化合物 (三丁基錫化合物, 三苯基錫化合物)	ND
Asbestos / 石棉	ND
Azo compounds / 偶氮化合物	ND

Remarks: ppm = Parts per million

ND = Not detected

\*

Page: 3 of 3

Report No. C411101 Date: Jul. 27, 2004

#### TEST CONDUCTED

#### (B) Test method:

<u>Testing item</u>	<u>Testing method</u>	Reporting limit
Cadmium (Cd) content 鎘含量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
Lead (Pb) content 鉛含量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
Mercury (Hg) content 汞含量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
Chromium VI (Cr <sup>6+</sup> ) content 六價鉻含量	With reference to USEPA 3060A & 7196A, by alkaline digestion and determined by UV-Vis	1 ppm
PBBs/PBDEs 多溴聯苯/溴聯苯醚	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD	10 ppm
Polychlorinated biphenyls (PCBs) 多氯聯苯	With reference to USEPA 8082, by solvent extraction and determined by GC-ECD and GC-MSD	1 ppm
Polychlorinated naphthalenes (PCNs) 多氯化萘	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD	10 ppm
Chlorinated paraffins (C10~C13) 氯化石蠟	With reference to USEPA 3540C, by solvent extraction and determined by GC-ECD and GC-MSD	10 ppm
Formaldehyde 甲醛	As per applicant's request with reference to DIN 53315 and determined by UV-Vis	5 ppm
Polyvinyl chloride (PVC) 聚氯乙烯和聚氯乙烯混合物	Beilstein's test (flame test) and FT-IR analysis	NA
Organic tin compounds (Tributyl tin & triphenyl tin) 有機錫化合物 (三丁基錫化合物,三苯基 錫化合物)	With reference to ISO 17353, by solvent extraction and determined by GC-MSD	1 ppm
Asbestos 石棉	FT-IR analysis	NA
Azo compounds 偶氮化合物	As per ISO/TS 17234:2003, EN 14362-1:2003, EN 14362-2:2003, determined by GC-MSD	5 ppm



DSM ENGINEERING PLASTICS. Report No. : CE/2004/B2799

Date : 2004/11/23

Page : 1 of 2

#### The following merchandise was (were) submitted and identified by the client as:

Type of Product : EL630 WHITE (NC, 999999)

Style/Item No : DSM ARNITEL TPE-E

Sample Received : 2004/11/16

<u>Testing Date</u> : 2004/11/16 TO 2004/11/23

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

**Test Result** : - Please see the next page -

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



DSM ENGINEERING PLASTICS.

Report No. : CE/2004/B2799

Date : 2004/11/23

Page : 2 of 2

#### **Test Result**

PART NAME NO.1 : WHITE PLASTIC PELTTETS

				Result			
Test Item (s):	Unit	Method	MDL	No.1			
PBBs(Polybrominated biphenyls)(CAS NO:67774-32-7)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC and 76/769/EEC)	0.0005	N.D.			
PBBEs(PBDEs)(Polybromi nated biphenyl ethers)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC and 76/769/EEC)	0.0005	N.D.			

				Result				
Test Item (s):	Unit	Method	MDL	No.1				
Chromium VI (Cr+6)		As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.				
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.				
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.				

NOTE (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

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TEIJIN KASEI TAIWAN CO., LTD. Report No. : CE/2004/C2403

10F-2., NO. 87, SONG JIANG ROAD, (EMPIRE BLDG) Date : 2004/12/20

TAIPEI, TAIWAN, R. O. C. Page : 1 of 3

#### The following merchandise was (were) submitted and identified by the client as:

<u>Type of Product</u>: POLYCARBONATE(PC)

<u>Material Designation</u>: PANLITE®L-1250 Z100

<u>Manufacturer/Vendor</u>: TEIJIN CHEMICALS LTD

Sample Received : 2004/12/13

<u>Testing Date</u> : 2004/12/13 TO 2004/12/20

\_\_\_\_\_

<u>Test Result</u>: - Please see the next page -

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



TEIJIN KASEI TAIWAN CO., LTD. Report No. : CE/2004/C2403

10F-2., NO. 87, SONG JIANG ROAD, (EMPIRE BLDG) Date : 2004/12/20

TAIPEI, TAIWAN, R. O. C. Page : 2 of 3

#### **Test Result**

PART NAME NO.1 : TRANSLUCENT PLASTIC PELLETS(PLEASE REFER TO THE PHOTO ATTACHED)

					Result	
Test Item (s):	Unit	Method	MDL	No.1		
PBBs(Polybrominated	%	With reference to	0.0005	N.D.		
biphenyls)(CAS		USEPA3540 or USEPA3550.				
NO:059536-65-1)		Analysis was performed by				
		HPLC/DAD, LC/MS or				
		GC/MS. (prohibited by				
		2002/95/EC (RoHS),				
		83/264/EEC, and				
		76/769/EEC)				
PBBEs(PBDEs)(Polybromi	%	With reference to	0.0005	N.D.		
nated biphenyl ethers)		USEPA3540 or USEPA3550.				
		Analysis was performed by				
		HPLC/DAD, LC/MS or				
		GC/MS. (prohibited by				
		2002/95/EC (RoHS),				
		83/264/EEC, and				
		76/769/EEC)				

					Res	sult	
Test Item (s):	Unit	Method	MDL	No.1			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.			
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.			

NOTE (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit



Report No. : CE/2004/C2403 TEIJIN KASEI TAIWAN CO., LTD.

10F-2., NO. 87, SONG JIANG ROAD, (EMPIRE BLDG) Date : 2004/12/20

TAIPEI, TAIWAN, R. O. C. Page : 3 of 3



K'UAN HONG ENTERPRISE CO., LTD. Report No. : CE/2005/12479A

Date : 2005/01/21

Page : 1 of 3

#### The following merchandise was (were) submitted and identified by the client as:

Type of Product:透明電鍍液-黑鋅Sample Received:2005/01/14

<u>Testing Date</u> : 2005/01/14 TO 2005/01/21

\_\_\_\_\_

<u>Test Result</u>: - Please see the next page -

Signed for and on behalf of SGS TAIWAN LTD.

K'UAN HONG ENTERPRISE CO., LTD. Report No. : CE/2005/12479A

Date : 2005/01/21

Page : 2 of 3

#### **Test Result**

PART NAME NO.1 : SEMI-TRANSPARENT LIQUID (PLEASE REFER TO

THE PHOTO ATTACHED)

Took Itom (a):	Unit Method		MDL	Result
Test Item (s):	Onit	Wethod	MDL	No.1
PBBs(Polybrominated	%	With reference to	0.0005	N.D.
biphenyls)(CAS NO:059536-		USEPA3540C or		
65-1)		USEPA3550C. Analysis was		
		performed by HPLC/DAD,		
		LC/MS or GC/MS.		
		(prohibited by 2002/95/EC		
		(RoHS), 83/264/EEC, and		
		76/769/EEC)		
PBBEs(PBDEs)(Polybrominat	%	With reference to	0.0005	N.D.
ed biphenyl ethers)		USEPA3540C or		
		USEPA3550C. Analysis was		
		performed by HPLC/DAD,		
		LC/MS or GC/MS.		
		(prohibited by 2002/95/EC		
		(RoHS), 83/264/EEC, and		
		76/769/EEC)		

Took Itom (a):	Unit	Method	MDL	Result
Test Item (s):	Onit	Method	MIDL	No.1
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.

NOTE (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

K'UAN HONG ENTERPRISE CO., LTD. Report No. : CE/2005/12479A

Date : 2005/01/21

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K'UAN HONG ENTERPRISE CO., LTD. Report No. : CE/2004/B4814B

Date : 2004/12/02

Page : 1 of 2

#### The following merchandise was (were) submitted and identified by the client as:

Type of Product : 鉚釘

Sample Received : 2004/11/25

<u>Testing Date</u> : 2004/11/25 TO 2004/12/02

\_\_\_\_\_

#### **Test Result**

PART NAME NO.1 : BLACK METAL (PLEASE REFER TO THE PHOTO ATTACHED)

PART NAME NO.2 : GOLDEN METAL (PLEASE REFER TO THE PHOTO

ATTACHED)

// 4 TA (n)	77	767 - 41	MDI	Result	
Test Item (s):	Unit	Method	MDL	No.1	No.2
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.	N.D.
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	75.9	64.9
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid	2	N.D.	N.D.
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	24987.5	23307.2

NOTE

(1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

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

SGS TAIWAN LTD.

K'UAN HONG ENTERPRISE CO., LTD. Report No. : CE/2004/B4814B

Date : 2004/12/02

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KING CORE ELECTRONICS INC. Report No. : CE/2004/C3816

NO. 158, YANG HSIN ROAD, SEC. 2, YANG MEI Date : 2004/12/28

CHEN, TAO YUAN HSIEN, TAIWAN R. O. C. Page : 1 of 3

#### The following merchandise was (were) submitted and identified by the client as:

<u>Type of Product</u>: FERRITE CORE

Style/Item No : MATERIAL CODE:K5B

Sample Received : 2004/12/21

<u>Testing Date</u> : 2004/12/21 TO 2004/12/28

**Test Result** : - Please see the next page -

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



KING CORE ELECTRONICS INC. Re-NO. 158, YANG HSIN ROAD, SEC. 2, YANG MEI Da

CHEN, TAO YUAN HSIEN, TAIWAN R. O. C.

Report No. : CE/2004/C3816

Date : 2004/12/28

Page : 2 of 3

#### **Test Result**

PART NAME NO.1 : BLACK CORE (PLEASE REFER TO THE PHOTO ATTACHED)

					Result	
Test Item (s):	Unit	Method	MDL	No.1		
PBBs(Polybrominated	%	With reference to	0.0005	N.D.		
biphenyls)(CAS		USEPA3540 or USEPA3550.				
NO:059536-65-1)		Analysis was performed by				
		HPLC/DAD, LC/MS or				
		GC/MS. (prohibited by				
		2002/95/EC (RoHS),				
		83/264/EEC, and				
		76/769/EEC)				
PBBEs(PBDEs)(Polybromi	%	With reference to	0.0005	N.D.		
nated biphenyl ethers)		USEPA3540 or USEPA3550.				
		Analysis was performed by				
		HPLC/DAD, LC/MS or				
		GC/MS. (prohibited by				
		2002/95/EC (RoHS),				
		83/264/EEC, and				
		76/769/EEC)				

					Result	
Test Item (s):	Unit	Method	MDL	No.1		
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.		
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.		
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.		
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	12.8		-

NOTE (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit



KING CORE ELECTRONICS INC. NO. 158, YANG HSIN ROAD, SEC. 2, YANG MEI CHEN, TAO YUAN HSIEN, TAIWAN R. O. C.

Report No. : CE/2004/C3816

Date : 2004/12/28

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No. SH519043/CHEM

Date: 4.18.2005

Page 1 of 10

RAYCHEM ELECTRONICS (SHANGHAI) LTD. 307 QINJIANG ROAD CAOHEJING HI-TECH DEVELOPMENT PARK

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

Sample Name

: V2-13.0 VERSAFIT POLYOLEFIN TUBING

SGS Ref No.

: SHEC0050306617

Model

: VERSAFIT POLYOLEFIN TUBING

Sample Receiving Date: April 06, 2005

**Testing Period** 

: April 06 to April 18, 2005

Test Requested

- : 1) To determine the Cadmium, Lead, Mercury, Hexavalent Chromium Content of the submitted sample.
- 2) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.

To determine the Arsenic Content of the submitted sample.

- 4) \*\*\*As specified by client, to detection and determination of certain listed aromatic amines derived from Azo Colorants (EN14362-2:2003).
- To determine the PCBs(Polychlorinated Biphenyls) Content of the submitted sample.
- 6) To determine the Polychlorinated Naphthalene Content of the submitted sample.
- 7) To determine the Chlorinated Paraffin content of the submitted sample.
- 8) To determine the Organic-tin compounds Content of the submitted sample.
- 9) \* To determine the Asbestos Content of the submitted sample.
- 10) \*To determine the TBBP-A-BIS(CAS NO:21850-44-2)Content of the submitted sample.
- 11) \*To determine the Formaldehyde(CAS No:000050-00-0) Content of the submitted sample.
- 12) \*To determine the CFC's(Chlorofluorocarbons), CHC's(Chlorinated hydrocarbon), HCFC's(Hydrogenated chlorofluorocarbons)Content of the submitted sample.

Conclusion

: 4) \*\*\* According to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.

Test method/Test Results: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

ONSUMER

Ella Zhang Supervisor

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written approval of the Company.

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No. SH519043/CHEM

Date: 4.18.2005

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Test method

: 1) Cadmium (Cd)

With reference to BS EN 1122:2001, Method B see flowchart (1) for sample. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES)or Atomic Absorption Spectrometry.

Lead (Pb)

Ashing after wet decomposition see flowchart (2) for sample. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

Mercury (Hg)

With reference to US EPA 3052/EPA7473 or other acid digestion for sample. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES)/Hg Analyzer.

Hexavalent Chromium (Cr6+

With reference to US EPA3060A and US EPA7196A for sample.

Analysis was performed by UV-VIS Spectrometric method.

2) With reference to US EPA 8081, Analysis was performed by GC/MS. 3) \*ICP-AES after reference to US EPA 3052 or other acid digestion.

4) \*\*\* Extraction test on coloured textile - Detection of the use of certain azo colorants in fibres with extractable dyes with the use of Gas Chromatographic Mass Spectrometry (GC-MS) / Thin Layer Chromatography (TLC) Technique.

With reference to US EPA 8082, Analysis was performed by GC/MS.

6) With reference to US EPA 8081, Analysis was performed by GC/MS.

7) With reference to US EPA 8081, Analysis was performed by GC/MS.

With reference to DIN 38407-13, Analysis was performed by GC/MS.

\* As per NIOSH 9000 method. Analysis was performed by XRD.

10) \* Analysis was performed by HPLC/DAD/MS

11) \* With reference to DIN 53315 & USEPA 8315A. Analysis was performed by HPLC/DAD/MS

12) \* With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.(CFC's(Chlorofluorocarbons)).(CHC's(Chlorinated hydrocarbon)), (CFC's(Chlorofluorocarbons)) (HCFC's(Hydrogenated chlorofluorocarbons))



No. SH519043/CHEM

Date: 4.18.2005

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Test Results

1) Cadmium, Lead, Mercury, Hexavalent Chromium Content

<u>Item</u>	Unit	MDL	No.1
Cadmium (Cd)	ppm	2	N.D.
Lead (Pb)	ppm	2	5
Mercury (Hg)	ppm	2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	N.D.

(Result shown is of the total weight of sample)

2) PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content

<u>Item</u>	Unit	MDL	No. 1
Polybrominated biphenyls (PBBs)	ppm		+++
PBBs(Bromobiphenyl)	ppm	5	N.D.
PBBs(Dibromobiphenyl)	ppm	5	N.D.
PBBs(Tribromobiphenyl)	ppm	5	N.D.
PBBs(Tetrabromobiphenyl)	ppm	5	N.D.
PBBs(Pentabromobiphenyl)	ppm	5	N.D.
PBBs(Hexabromobiphenyl)	ppm	5	N.D.
PBBs(Heptabromobiphenyl)	ppm	5	N.D.
PBBs(Octabromobiphenyl)	ppm	5	N.D.
PBBs(Nonabromobiphenyl)	ppm	5	N.D.
PBBs(Polybrominated biphenyls)	ppm	5	N.D.
Polybrominated biphenyl ethers (PBDEs)			
PBBEs(PBDEs)(Monobromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Dibromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Tribromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Tetrabromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Pentabromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Hexabromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Heptabromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Octabromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Nonabromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Decabromobiphenyl ether)	ppm	5	N.D.

(Result shown is of the total weight of sample)



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Date: 4.18.2005

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3) \*Arsenic Content

			Result	
Test Item(s):	Unit	MDL	No.1	
Arsenic (As)	ppm	2	N.D.	

4) \*\*\*To detection and determination of certain listed aromatic amines derived from Azo Colorants (EN14362-

-	Amines Substances	CAS-No.	Result
			No.1
1.	4-aminodiphenyl/xenylamine/	92-67-1	n.d.
	Biphenyl-4-ylamine		
2.	Benzidin	92-87-5	n.d.
3.	4-chlor-o-toluidine	95-69-2	n.d.
4.	2-naphthylamine	91-59-8	n.d.
5.	o-aminoazotoluene/	97-56-3	n.d.
	4-o-tolylazo-o-toluidine/		
	4-amino-2',3-dimethylazobenzene		
6.	2-amino-4-nitrotoluol/5-nitro-o-toluidine	99-55-8	n.d.
7.	p-chloranilin/4-chloroaniline	106-47-8	n.d.
8.	2,4-diaminoanisol/	615-05-4	n.d.
	4-methoxy-m-phenylenediamine		
9.	4,4'-diaminodiphenylmethane/	101-77-9	n.d.
	4,4-methylenedianiline		
10.		91-94-1	n.d.
	3,3'dichlorobiphenyl-4,4'-ylenediamine		
11.		119-90-4	n.d.
12.		119-93-7	n.d.
13.		838-88-0	n.d.
	4,4'-methylenedi-o-toluidine		
14.		120-71-8	n.d.
15.		101-14-4	n.d.
	2,2'-dichloro-4,4'methylene-dianiline		
16.		101-80-4	n.d.
17.		139-65-1	n.d.
18.		95-53-4	n.d.
19.		95-80-7	n.d.
	4-methyl-m-phenylenediamine		
20.		137-17-7	n.d.
21.		60-09-3	n.d.
22.		90-04-0	n.d.
23.	TO SECURE OF THE	95-68-1	n.d.
24.		87-62-7	n.d.
	erall Rating		PASS
Note			

n.d. = not detectable

Detection Limit = 5 ppm (mg/kg)

Requirement: no relevant amine exceeding 30 ppm (mg/kg).



No. SH519043/CHEM

Date: 4.18.2005

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Forbidden Arylamines for Azo Dye Regulations

No, 1-22-Commission of the European Communities: Directive 2002/61/EC adopted by the Council on19 July

No, 1-20, 22-24- Greening Label: Oko-Tex Standard 100-2002 edition (European Countries)

Remarks: Azo colorants that are able to form 4-aminoazobenzene (CASNr: 60-09-3),

generate under the testing condition into aniline and 1, 4-phenylenediamine.

The detection of it can only be ascertained with the chemical structure of the colorant used.

5) PCRe(Polychloringted Riphenyle) Content

Test Item(s):	No.1
PCBs(Polychlorinated Biphenyls)	N.D.

(Result shown is of the total weight of sample) N.D. = Non-detected (Detection limit <0.5 ppm)

6) Polychlorinated Naphthalene Content

Test Item(s):	No.1
Polychlorinated Naphthalene	N.D.

(Result shown is of the total weight of sample)

N.D. = Non-detected (Detection limit <5 ppm)

7) Chlorinated Paraffin Content

Test Item(s):	No.1
Chlorinated Paraffin	N.D.

(Result shown is of the total weight of sample)

N.D. = Non-detected (Detection limit <30 ppm)

8) Organic-tin compounds Content

Test Item(s):	No.1 N.D.	
Triphenyl Tin(TPT)		
Tributyl Tin(TBT)	N.D.	

(Result shown is of the total weight of sample) N.D. = Non-detected (Detection limit <0.5 ppm)

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No. SH519043/CHEM

Date: 4.18.2005

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9)\* Asbestos Content

			Result	
Test Item(s):	Unit	MDL	No.1	
Asbestos				
Anthrophyllite	**	-	Negative	
Crocodolite	**	2	Negative	
Amosite	**	+	Negative	
Tremolite	**	-	Negative	
Chrysotile	**	-	Negative	
Actinolite	**	-	Negative	

10) \* TBBP-A-BIS content

			Result
Test Item(s):	Unit	MDL	No.1
TBBP-A-BIS(CAS NO:21850-44-2)	ppm	5	N.D.

11) \* Formaldehyde Content

			Result
Test Item (s):	Unit	MDL	No.1
Formaldehyde(CAS No:000050-00-0)	ppm	0.2	N.D.

12) \*CFC's(Chlorofluorocarbons), CHC's(Chlorinated hydrocarbon), HCFC's(Hydrogenated chlorofluorocarbons)Content

The state of the s			Result
Test Item (s):	Unit	MDL	No.1
CFC's(Chlorofluorocarbons)			
Group I			U-1301-
Chlorofluorocarbon-11(CAS No:000075-69-4)	ppm	1	N.D.
Chlorofluorocarbon-12(CAS No:000075-71-8)	ppm	1	N.D.
Chlorofluorocarbon-113(CAS No:000076-13-1)	ppm	1	N.D.
Chlorofluorocarbon-114(CAS No:000076-14-2)	ppm	1	N.D.
Chlorofluorocarbon-115(CAS No:000076-15-3)	ppm	1	N.D.
Group III			
Chlorofluorocarbon-13(CAS No:000075-72-9)	ppm	1	N.D.
Chlorofluorocarbon-111(CAS No:000354-56-3)	ppm	1	N.D.
Chlorofluorocarbon-112(CAS No:000076-12-0)	ppm	1	N.D.
Chlorofluorocarbon-211(CAS No:135401-87-5)	ppm	1	N.D.
Chlorofluorocarbon-212(CAS No:076564-99-3)	ppm	1	N.D.
Chlorofluorocarbon-213(CAS No:060285-54-3)	ppm	1	N.D.
Chlorofluorocarbon-214(CAS No:002268-46-4)	ppm	1	N.D.
Chlorofluorocarbon-215(CAS No:000076-17-5)	ppm	1	N.D.
Chlorofluorocarbon-216(CAS No:001652-80-8)	ppm	1	N.D.
Chlorofluorocarbon-217(CAS No:000422-86-6)	ppm	1	N.D.

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Shandhai Branch, Teiging Center Chemical Laboratory

SSS-CSTC Standards Technical Services Co., Ltd. 1/F, 7/F, 9/F & 10/F, the 3rd Building, No. 889, Yishan Road, Xurui District, Shanghai, China 200233 t +86 21 6495 1616\*2822 f +86 21 5450 0314 中国. 上海. 徐汇区宜山路889号3号楼1楼,7楼,9楼,10楼 邮编; 20233 1+85 21 6495 1616\*2E22 f-86 21 5450 0314 www.cn.sgs.com



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CHC's(Chlorinated hydrocarbon)			
1,1,1,2-Tetrachloroethane(CAS No.:000630-20-6)	ppm	1	N.D.
1,1,1-Trichloroethane(CAS No.:000071-55-6)	ppm	1	N.D.
1,1,2,2-Tetrachloroethane(CAS No.:000079-34-5)	ppm	1	N.D.
1,1,2-Trichloroethane(CAS No.:000079-00-5)	ppm	1	N.D.
1,1-Dichloroethane(CAS No.:000075-35-4)	ppm	1	N.D.
1,1-Dichloroethane(CAS No.:000075-35-3)	ppm	1	N.D.
1,1-Dichloropropene(CAS No.:000563-58-6)	ppm	1	N.D.
,2,3-Trichloropropane(CAS No.:000096-19-5)	ppm	1	N.D.
,2-Dichloroethane(CAS No.:000107-06-2)	ppm	1	N.D.
1,2-Dichloropropane(CAS No.:000078-87-5)	ppm	1	N.D.
I,3-Dichloropropane(CAS No.:000142-28-9)	ppm	1	N.D.
2,2-Dichloropropane(CAS No.:000594-20-7)	ppm	1	N.D.
Carbon tetrachloride(CAS No:000056-23-5)	ppm	1	N.D.
Chloroethane(CAS No.:000075-00-3)	ppm	1	N.D.
Chloroform(CAS No.:000067-66-3)	ppm	1	N.D.
Chloromethane(CAS No.:000074-87-3)	ppm	1	N.D.
Cis-1,2-Dichloroethene(CAS No.:000156-59-2)	ppm	1	N.D.
Cis-1,3-Dichloropropene(CAS No.:010061-01-5)	ppm	1	N.D.
Hexachlorobutadiene(CAS No.:000087-68-3)	ppm	1	N.D.
Methylene Chloride(CAS No.:000075-09-2)	ppm	1	N.D.
etachloroethene(CAS No.:000630-20-6)	ppm	1	N.D.
rans-1,2-Dichloroethene(CAS No.:000156-60-5)	ppm	1	N.D.
rans-1,3-Dichloropropene(CAS No.:010061-02-6)	ppm	1	N.D.
richloroethylene(CAS No.:000079-01-6)	ppm	1	N.D.
HCFC's(Hydrogenated chlorofluorocarbons)			
Hydrochlorofluorocarbon-21(CAS No.:000075-43-4)	ppm	1	N.D.
Hydrochlorofluorocarbon-22(CAS No.:000075-45-6)	ppm	1	N.D.
Hydrochlorofluorocarbon-31(CAS No.:000593-70-4)	ppm	1	N.D.
Hydrochlorofluorocarbon-121(CAS No.:000354-14-3)	ppm	1	N.D.
Hydrochlorofluorocarbon-122(CAS No.:000354-21-2)	ppm	1	N.D.
Hydrochlorofluorocarbon-123(CAS No.:000306-83-1)	ppm	1	N.D.
Hydrochlorofluorocarbon-124(CAS No.:002837-89-0)	ppm	1	N.D.
Hydrochlorofluorocarbon-131(CAS No.:000359-28-4)	ppm	1	N.D.
Hydrochlorofluorocarbon-131b(CAS No.:000471-43-2)	ppm	1	N.D.
Hydrochlorofluorocarbon-133a(CAS No.:000075-88-7)	ppm	1	N.D.
Hydrochlorofluorocarbon-141b(CAS No.:001717-00-6)	ppm	1	N.D.
Hydrochlorofluorocarbon-221	ppm	1	N.D.
Hydrochlorofluorocarbon-222(CAS No.:000422-30-0)	ppm	1	N.D.
Hydrochlorofluorocarbon-223	ppm	1	N.D.
Hydrochlorofluorocarbon-224	ppm	1	N.D.
Hydrochlorofluorocarbon-225ca(CAS No.:000422-56-0)	ppm	1	N.D.
Hydrochlorofluorocarbon-225cb(CAS No.:000507-55-1)	ppm	1	N.D.
Hydrochlorofluorocarbon-226(CAS No.:000431-87-8)	ppm	1	N.D.
Hydrochlorofluorocarbon-231	ppm	1	N.D.
Hydrochlorofluorocarbon-232	ppm	1	N.D.



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Hydrochlorofluorocarbon-233	ppm	1	N.D.
Hydrochlorofluorocarbon-234	ppm	1	N.D.
Hydrochlorofluorocarbon-235(CAS No.:013838-16-9)	ppm	1	N.D.
Hydrochlorofluorocarbon-241	ppm	1	N.D.
Hydrochlorofluorocarbon-242	ppm	1	N.D.
Hydrochlorofluorocarbon-243(CAS No.:000338-75-0)	ppm	1	N.D.
Hydrochlorofluorocarbon-244	ppm	1	N.D.
Hydrochlorofluorocarbon-251	ppm	1	N.D.
Hydrochlorofluorocarbon-252	ppm	1	N.D.
Hydrochlorofluorocarbon-253(CAS No.:000354-06-1)	ppm	1	N.D.
Hydrochlorofluorocarbon-261(CAS No.:000420-97-3)	ppm	1	N.D.
Hydrochlorofluorocarbon-262(CAS No.:000420-97-3)	ppm	1	N.D.
Hydrochlorofluorocarbon-271	ppm	1	N.D.

Sample Description:

No.1. Black plastic tube with white printing

Note: ppm=mg/kg

N.D. = Not detected.(<MDL) MDL= Method Detection Limit

"---"= Not Applicable " -" = Not Regulation

\*\*= Qualitative analysis(No Unit)

Negative = Undetectable / Positive = Detectable.

\*\*\*These tests were subcontracted to SGS-SHSL TEXTLIE LAB (Date of testing: 2005/04/06-04/08).

These tests were subcontracted to SGS Taiwan Ltd (Date of testing: 2005/04/07-04/15).



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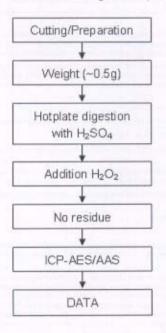
Date: 4.18.2005

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#### **ATTACHMENTS**

Flow chart 1

Flow chart of digestion (EN 1122-2001 for Cd)



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Tested by Checked by : Banyan Xu : Terry Wang



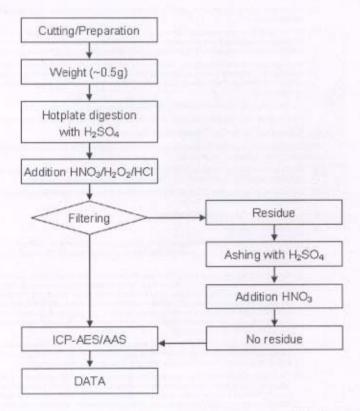
No. SH519043/CHEM

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Flow chart 2

Flow chart of digestion (Ashing after wet decomposition for Pb)



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Tested by Checked by

: Jeffery Dong : Terry Wang

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



### 亞旭電腦股份有限公司 ASKEY COMPUTER CORP.

### 供應商環境管理物質保證書 Supplier Environment-Related Substances Guarantee Letter

茲保證各欄所塡均屬實,如有因所填不實,造成可歸因於本公司之不良結果,本公司願負所衍生之責任

to be a second that the Chief column is true. If a maken had influence counting from the false lifting in caused by our company, we will be responsible for them.

公司名稱:譯裕實業股份有限公司

(Company Name)





填表人:柯美雪 (Contact Name)

填表說明:本表請填寫粉紅色的欄位。若無該項物質請填"0"。若有則請填含量(單位:mg)。 Illustration:

Please fill in the pink space ("0" or "mg").

				WEE/17	E名稱 ( Supplier name )	即扮實業	
166/15	f代碼c若不確定可詢問本公司採購單位 (supplier codetyou could sak our CE departer	X廠商代碼請務必填寫正確、否則才 emiXPlease make it commt because we will alemi	k公司將以此爲辨謂 fy all information by it. If it	資料·若有i is wrong, you sh	錯誤由廠用自行負責) sald be responsible for them.)	2279	
填表人(Contact Name)							
				- 10	接日期 (Date of Fill)	2005年6月24日	
	預定回復日の	官可學時回覆,則不用環寫Xanser sc	hedule(If you could as	nser on time, y	ou don't have to fill in ))		
			此物料單向	ece 追撒 ( mg	)(weight of one piece) :	6850.	
					序4號(part number)	C407-510316-	
NO.	Chemical Category and Example Composeds 1E: N 表示定有情報性, y 表示有情報的可以沒有權	中交名稱	Chemical Formula		Example CAS Numbers (not all-inclusive)	THE REAL PROPERTY.	
<b>学校人</b>	等級人			1775			
A05 A05001 A05002 A05003 A05004 A05005 A05006 A05007 A05008 A05009 A050001 A0500001 A0500001	A05-Cadmium and its compounds Cadmium Cadmium oxide Cadmium sulfide Cadmium chloride Cadmium sulfate Cadmium carbonate Cadmium carbonate Cadmium ristate Cadmium situate Cadmium situate Cadmium situate Cadmium situate Cadmium compound Other cadmium compound Other cadmium compound	與及其化合物 與 氧化與 氧化與 氨酸 數 數 數 數 數 數 數 數 數 數 數 數 數 數 數 數 數 數	Cd CdO CdS CdCl <sub>2</sub> CdSO <sub>4</sub> CdCO <sub>5</sub>	1.000 0.875 0.778 0.613 0.539	7440-43-9 1306-19-0 1306-23-6 10108-64-2 10124-36-4 513-78-0 14486-19-2 10325-94-7 2223-93-0 10022-68-1	75.9 75.9 0 0 0 0 0 0 0 0 0	
A07 A07001 A07002 A07002 A07003 A07004 A07006 A07006 A07008 B07009 A07010 A07011 A07012 A07012 A07014 A07015 A07018 A07018 A07018 A0700002	A07-Chromium (VI) and its comeounds Sodium dichromate Chromium/VI)oxide; Chromium Calcium chromate Lead chromate: Chrome vellow Potassium dichromate Potassium chromate Battant chromate Sodium chromate Strontium chromate Strontium chromate Lithium chromate Potassium chlorochromate Attanonium cheoraste Coeoer chromate Magnesium chromate Attanonium dichromate Attanonium dichromate Attanonium dichromate Attanonium dichromate Calcium dichromate Calcium dichromate Calcium dichromate Zinc dichromate Zinc chromate Other hexavalent chromium compound Other hexavalent chromium compound	六價絡及其化合物 重絡較納 三氧化絡:氧化絡(六價): 酐化絡 絡酸钙 絡酸的:納黃 重絡數則 路酸酸 路酸酸 路酸酸 路酸酸 路酸酸 路酸酸 路酸酸 路酸酸 路酸酸 路酸	NanChiOn CrOs CrCrOs PriCrOs K-CriOs BaiCrOs NanCrOs LinCrOs CriCrOs MgCrOs	0.397 0.520 0.333 0.161 0.353 0.268	10588-01-9 1333-82-0 13765-19-0 7758-97-6 7778-50-9 7789-00-6 10294-40-3 7775-11-3 7789-06-2 14307-35-8 10037-50-6 7788-98-9 13548-42-0 13423-61-5 7789-09-5 14307-33-6 14018-95-2 13530-65-9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
A09 A09001 A09002 A09003 A09004 A09005	A09-Lead and its compounds Lead Lead carbonate Lead (IV) oxide Lead (II. IV) oxide Lead (II) sulfide	鉛及其化合物 鉛 級酸鉛 二氧化鉛(四價) 四氧化三鉛(二價,四價) 硫化鉛(二價)	Pb PbCO <sub>1</sub> PbO <sub>2</sub> Pb <sub>2</sub> O <sub>4</sub> PbS	1.000 0.775 0.866 0.907 0.866	7439-92-1 598-63-0 1309-60-0 1314-41-6 1314-87-0	24987.5 24987.5 0 0 0	

ï					ne sacre	PEH
NO	Chemical Category and Example Compounds 註: N 表示沒有實際: y 表示有實際的沒有量	中文的模	Chemical Formula	全報換算者 對	Example CAS Numbers (not all-inclusive)	2245
C05003	Dissononyl phthalate	都苯二甲酸二男壬酚	$C_{3a}H_{30}O_{4}$		28553-12-0	0
C05004	1.2-Berzenedicarboxylic acid diisodecyl		C <sub>11</sub> H <sub>10</sub> O <sub>4</sub> C <sub>12</sub> H <sub>22</sub> O <sub>4</sub>		26761-40-0	0
C05005	Butyl benzyl phthalate	都苯二甲酸十丁酚 ************************************	CoplayO4	-	85-68-7	0
C0500001 C0500002	Other obtalate Other obtalate	其它都苯二甲酸镍			(C. 1)	0
D01	D01-Copper and its compounds	網及其化合物	1271	_		0
D01001	Copper	PI	Cu	1.000	7440-50-8	0
D0100001	Other copper compounds		-			0
D0100002	Other corner compounds	AT III AM	17		-	0
D02: D02001	D02-Gold and its compounds Gold	金及其化合物	Au	1.000	7440-57-5	0
D0200001	Other gold compounds		PUI	13887	1440-31-3	0
D0200002					E VOE	0
D03	D03-Palladium and its compounds	靶及其化合物				0
D03001	Palladium		Pd	1.000	7440-05-3	. 0
D0300001	Other Palladium compounds		100000			0
D0300002	Other Palladium compounds D04-Silver and its compounds	銀及其化合物		_		0
D04001	Silver	新及共化270 假	Az	1.000	7440-22-4	0
DG400001	Other silver compounds	The same of the sa	0.0	1.000	1440722-4	0
D0400002					3 10	0
等級C	其它需要注意之物質					
C991	C991- Cobalt and its compounds	结及其化合物*2			7440-48-4	0
C991001	Cobalt(II)oxide	氧化站(二價)	CoO		1307-96-6	0
C991002 C9910001	Cobut oxide(II.III) Other Cobut Compounds	四氧化三結	Co <sub>1</sub> O <sub>4</sub>		1308-06-1	0
C9910001	Other Cobat Compounds					0
C992001	C992-Chlorinated paraffin	CP氧代始塔			10871-26-2	0
C9920001						0
C9920002						0
C993001	C993-Tetrabromobisphenol-A-bis-(2,3-	四溴雙酚-A-雙(2.3-二溴丙醚)(TBBP-			21850-44-2	0
C9930001 C9930002						0
C994	C994-Polychlorinated naphthalene	PCN 聚氰化剂				0
C994001	Trichloronaphthalene	三氯化奈			1321-65-9	0
C994002	Tetrachloronaphthalene	四畝化奈			1335-88-2	0
C994003	Pentachlorlnaphthallene	五氯化膏			1321-64-8	0
C994004	Octachloronaphthalene	八氯化膏			2234-13-1	0
C9940001 C9940002						0
C995	C995-Polivinylchloride and	聚乙烯和聚乙烯混合物			9002-86-2	0
C996	C996-Formaldehyde:formalin:Formic	甲醛(阻基物)	HCOOH		50-00-0	0
C997	C997-Mirex	減緩奮				0
C997001	Dodicachlorooctahydro-1,3,4-metheno-	十二氯八氯-1.3,4美替語-2H-環丁			2385-85-5	0
C997002	Aldrin	艾氏劑-殺蟲劑			309-00-2	0
C997003 C997004	Endrin Dieldrin	異狄氏劑-殺蟲藥 狄氏劑-殺蟲劑			72-20-8	0
C997005	Toxarhene	次以内·权益用 海投芬-殺蟲劑			60-57-1	0
C9970001	The state of the s	69-EC27-EC86243				0
C9970002						0
C998	C998-Cyanogen and its compounds	氰及其化合物				0
C998001	Acrylonitrile	內局數集			107-13-1	0
C998002 C9980001	Sodium cyanides	<b>氰化</b> 的	NiCN		143-33-9	0
C9980002						0
C999	C999-其它需要注意的物質					0
C999001	Zinc and its compounds	<b>鲜及其化合物</b>	Zn			0
C999002	Manzanese and its compounds	<b>延及其化合物</b>	Mn			0
C999003	Sulfur hexafluoride (SF6)	六價硫化物				0
C999004 C999005	Thallium and its compounds Tellurium and its compounds	蛇及其化合物 四年4000年				0
C999006	Picnic Acid	確及其化合物 苦味酸				0
C999007	Variadium and its compounds	机及其化合物	v			0
C999008	Barium and its compounds	額及其化合物	Ba			0
C999009	Aluminum compounds (Soluble chlorine)	据及其化合物	Al			0
C999010	Indium and its compounds	観及其化合物				0
C999011 C999012	Zirconium and its compounds Tungsten and its compounds	結及其化合物 解以其化合物	Zr			0
3999012	Boron and its compounds	錫及其化合物 確及其化合物	W			0
2999014	Molybdenum and its compounds	朝及其化合物				0
C9990001						0
29990002						0

NO	Chemical Category and Example Compounds IE:N 表示技术管理: y 表示有管控制设在	<b>東 中文名稱</b>	Chemical Formula	全報的算点 数	Example CAS Numbers (not all-inclusive)	28000 1914-9
A13002	Selenous acid	C 655R	H-SeO <sub>1</sub>	0.612	7783-00-8	0
A1300001			LES MENTS		E. C.	0
A1300002			2 100			0
A16	A16-Magnesium and its compounds	鍵及其化合物				0
A16001	Magnesium Other magnesium compound	金屬鍵	Mg	1.000	7439-95-4	0
A1500002	Control of the Contro				1000000	0
B07	B07-Poly vinyl chloride (PVC)	聚氯乙烯(PVC)	REAL PROPERTY.			0
B07001	Poly vinyl chloride(PVC)	聚氯乙烯(PVC)	(CH-CHCI).		OVER DE A	0
B0700001		The Minister of the Party of th	(CITYLING))		9002-86-2	0
B0700002	Andrew Control of the	TAULT TO THE PARTY OF THE PARTY				0
B08	BOS-Brominated flame retardant	含溴阻燃劑				0
B08001	Brominated flame retardant which come	s ISO 1043-4 編號FR(14)(指的族/指環				0
B08002 B08003	Brominated flame retardant which come	s ISO 1043-4 編號FR(15)(脂肪族/指環				0
B08004	Brominated flame retardant which come	s ISO 1043-4 編號FR(16)(芳香族合溴 s ISO 1043-4 編號FR(17)(芳香族合溴	E+-			0
B08005	Brominated flame retardant which come	s ISO 1043-4 編號FR(22)(脂肪族/脂漿	E-			0
B08006	Brominated flame returdant which come	s ISO 1043-4 編號FR(42)(含溴有機磷)			*	0
B08007	Poly(2.6-dibromo-phenylene oxide)	聚2.6-二溴苯醚	(C6H2Br2O)s		CO200 11 0	0
B08008	Tetra-decabromo-diphenoxy-benzene	十四溴苯氨基苯	CISBr14O2		69882-11-7	0
B08009	1.2-Bis(2,4,6-tribromo-phenoxy) ethane	1.2-雙(2.4.6-三溴苯氧基)乙烷	C14H8Br6O2		58965-66-5 37853-59-1	0
B08010	3.5.3 S -Tetrahromo-hisphenol A	3.5.3'5'-四溴雙酚A	C15H12Br4O2		79-94-7	0
B08011	TBBA, unspecified	四溴雙酚A(結構不特定)	*		30496-13-0	0
B08012 B08013	TBBA-epichlorohydrin oligomer	四溴雙酚A(環氧氯丙烷低聚物)	(C15H12Br4O2,C3H5		40039-93-8	0
B08013	TBBA-diglycidyl-ether oligomer TBBA carbonate oligomer	四溴雙酚ACTBBA-環氧甘油醚低聚			70682-74-5	0
B08015	TBBA carbonate oligomer, phenoxy end	四溴雙酚A(碳酸鹽低聚物) BC 52(四)水解解	(C15H12Br4O2.CC12		28906-13-0	0
808016	TBBA carbonate oligomer, 2,4,6-	BC-58四溴雙酚A	(C7H5O2)(C16H10Br		94334-64-2	0
808017	TBBA-bisphenol A-phospene polymer	DC-SOLERON SCHOOL	(C7H2Br3O3)(C16H1		71342-77-3	0
810801	Brominated epoxy resin end-capped with		(C15H16O2.C15H12		32844-27-2	0
308019	Brominated epoxy resin end-capped with		-		139638-58-7	0
308020	TBBA-(2.3-dibromo-propyl-ether)	四溴雙酚A(2.3-二溴丙酸)	C21H20Br8O2		135229-48-0 21850-44-2	0
308021	TBBA bis-(2-hydroxy-ethyl-ether)	四溴雙酚A雙(2-羟乙基)醚	C19H20Br4O4		4162-45-2	0
308022 308023	TBBA-bis-(allyl-ether)	四溴雙酚A雙(烯內基)醚	C21H20Br4O2		25327-89-3	0
308023	TBBA-dimethyl-ether	四溴雙酚A二甲醚	C17H16Br4O2		37853-61-5	0
308025	Tetrabromo-bisphenol S TBBS-his-(2.3-dibromo-propyl-ether)	四溴雙酚S	C12H6Br4O45		39635-79-5	0
08026	2.4-Dibromo-obenol	四溴雙酚S雙(2.3-二溴丙醚) 2.4-二溴酚	C18H14Br8O4S		42757-55-1	0
108027	2.4.6-tribromo-phenol	2.4.6-三溴酚	C6H4Br2O		615-58-7	0
08028	Pentabromo-phenol	五海粉	C6H3Br3O		118-79-6	0
108029	2.4.6-Tribromo-phenyl-allyl-ether	2.4.6-三項所別的額額額	C6HBr5O C9H7Br3O		508-71-9	. 0
08030	Tribromo-phenyl-allyl-ether, unspecified	三溴酚丙烯基醚(結構不特定)	C9H7Br3O		3278-89-5	- 0
08031	Hexabromo-cyclo-dodecane (HBCD).	1.2.5.6.9.10-六溴環十二烷	C12H18Br6		26762-91-4	0
08032	Tetrahromo-chyclo-octane	溴化或氢化(7-12碳元素環)烷(CI或B	CSH12Rel		3194-55-6 31454-48-5	0
08033	1.2-Dibromo-4-(1.2 dibromo-methyl)-	1.2-二溴-4-(1.2 二溴-甲基)-環乙烷	C8H12Br4		1322-93-8	0
08034 08035	TBPA Na salt Tetrabromo enthalic anhydride	-	C8Br4O4Nn2		25357-79-3	0
08036	Bistmethyl)tetrabromo-phtalate	四溴苯酐	C8Br4O3		532-79-1	0
08037	Bis(2-ethlbexyl)tetrabromo-phtalate	雙甲基四溴解苯二甲酸鹽 類の3.2.Kラルma W.K mann	C10H6Br4O4		95481-60-2	0
08038	2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-	雙(2-2-乙基己)四溴那苯二甲酸鹽 2-羟基-丙基-2-(2-羟基-乙氧基)-乙基-	C24H34Br4O4		16040-51-7	0
08039	TBPA, glycol-and propylene-oxide esters	47月第7日第7日至5日4月至地・公職施ト公長・	C15H16Br4O7		0566-35-2	0
08040	N.N -Ethylene - bis-(tetrabromo-		CHRESTADORISMA		5790-69-1	. 0
08041	Ethylene-bist5.6-dibromo-norbomane-	2	C18H4Br8N2O4 C20H20Br4N2O4		2588-76-4	0
08042	2.3-Dibromo-2-butene-1.4-diol	2.3-二溴-2-烯烷-1.4-二醇	C4H6Br2O2		2907-07-0 234-02-4	0
08043	Dibromo-neopentyl-glycol	二溴辛戊二醇	C5H10Br2O2		296-90-0	0
08044 08045	Dibromo-propanol	2.3-二溴丙醇	C3H6Br2O		6-13-9	0
38046	Tribromo-neopentyl-alcohol Poly tribromo-styrene	三溴辛乙醇	C5H9Br3O		6483-57-5	0
38047	Tribromo-styrene	聚三溴苯乙烯			7137-10-7	0
	Dibtomo-styrene grafted PP	三溴苯乙烯	C8H5Br3	6	1368-34-1	0
18049	Poly-dibromo-styrene	- 聚二溴苯乙烯	COLUMN A		71091-06-8	0
18050	Bromo-/Chloro-paraffins	漢化(氧化石罐	C8H6Br2		1780-26-4	0
18051		演化個化#媒			8955-41-9	0
18052	Vinvlbromide	溴乙烯	C2H3Br		2600-56-4	0.
8053	Tris-(2,3-dibromo-propyl)-isocyanurate	三(2.3-二溴丙基)異氰尿酚酶	C12H15Br6N3O3		93-60-2	0
8054	Tris(2.4-Dibromo-phenyl) phosphate	三(2.4二溴苯)磺酚镰	C18H9Br6O4P		2434-90-9 9690-63-3	0
8055 8056	Tris(tribromo-neopentyl) phosphate	The state of the s	C15H24Br9O4P		9186-97-1	0
8057	Chlorinated and brominated phosphate	er lab one en			25997-20-8	0
			C7H3Br5		7-83-2	0
	1.3-Butadiene homopolymer,brominated	五演-溴化卡	C7H2Br6		8521-51-6	0
8060		Will haden the state that the state of the s	CHOISED 40.0		3441-46-3	0
8061		The state of the s	C10H5Br5O2		1447-55-1	0
8062	Decabromo-diphenyl-ethane		(C10H5Br5O2)x C14H4Br10O2		447-57-3	0
8063	Tribromo-phenyl-maleinimide .		C14H4Br10O2 C10H4Br3NO2		852-53-9	0
8064	Brominated trimethylphenyl-lindane .	- N	C18H12Bm	59	789-51-4	0
800001	Other Broxninated Flame Retordant .		- Contracting	-		0
5	Other Brommated Flame Retarding .					0
	C05-phtalate Salts Dibutylphthalate	<b>V</b> 苯二甲酸鹽	STANCE TO STANCE OF STANCE			0
		都苯二甲酸二丁酯 (	CuH <sub>10</sub> O <sub>4</sub>	84	-74-2	0
	THE SHITHWATIANIIIII	W苯二甲酸二(2-乙基己基)酮 (	CuHuO <sub>4</sub>		7-81-7	0

	Chemical Cargory and Example Compounds 3E: N 表示沒有管控: y 表示有管控机技术量	中文名稱	Chemical Formula	京観教35系 Example 数: (net all-	e CAS Numbers inclusive)	3 Hong
	HCFC-124	HCFC-124			- 1	0
	HCFC-124*2	HCFC-124*2	25	17		0
	HCFC-131	HCFC-131				0
	HCFC-132	HCPC-132	4			0
	HCFC-133	HCFC-133	7			0
	HCFC-141	HCPC-141	*	19		0
	HCFC-141b*2	HCFC-141b*2	3	1.0		0
	HCRC-142	HCPC-142		1.0		0
	HCFC-142b*2	HCFC-142b*2	2	- 7		0
	HCFC-151	HCFC-151		19		0
	HCFC-221	HCFC-221	12	-		0
	HCFC-222	HCFC-222	15	-		0
	HCFC-223	HCPC-223	3			0
	HCPC-224	HCPC-224				0
	HCPC-225	HCFC-225	-			0
	HCFC-225ca*2	HCFC-225ca*2				0
	HCFC-225cb*2	HCFC-225cb*2		7.4		0
	HCPC-226	HCFC-226		-		0
	HCPC-231	HCPC-231				0
	HCFC-232	HCPC-232				0
	HCFC-233	HCFC-233				0
	HCPC-234	HCFC-234		- 1		. 0
	HCFC-235	HCPC-235	5	100		0
	HCFC-241	HCFC-241	2	137	1	0
	HCFC-242	HCFC-242	9	5.2		0
	HCFC-243	HCFC-243	9			0
	HCFC-244	HCFC-244	2			0
	HCFC-251	HCFC-251	2	530		0
	HCFC-251 HCFC-252	HCFC-251				0
	HCFC-252 HCFC-253	HCFC-253	6			0
			9			0
	HCFC-261	HCFC-261	60			0
	HCFC-262	HCFC-262				0
0.400000	HCPC-271	HCPC-271				
0400001	others					0
0400002	others					0
06	C06-Radioactive substances	放射性物質	12.2			. 0
06001:	Uranium	98	U			0
06002	Plutonium	鈍	Pu			0
06003	Radon	90.	Rn	*		0
06004	Americium	\$19	Am			0
06005	Thorium	針	Th			0
06006	Cesium	16 :	Cs	7440-	46-2	0
06007	Strontium	經	Sr	7440-2	24-6	0
0600001	Other radioactive substance			200		0.
0600002	Other radioactive substance		F-111	900		0
FARB	等級B	TANK TO BE SHOWN THE PARTY OF T				
.01	A01-Antimory and its compounds	歸及其化合物				0
/01001	Antimony	\$6	Sb	1.000 7440-	36-0	0
01002	Antimony trichloride	三氯化醚	SbClv	0.534 10025	-91-9	0
01003	Antimony trioxide	三氧化醚	Sb <sub>2</sub> O <sub>3</sub>	0.835 1309-6	54-4	- 0
01004	Antimony pentoxide	五氧化二銅	Sb <sub>1</sub> O <sub>1</sub>	0.753 1314-0	60-9	- 0
01005	Sodium antimonate	偏絕酸鈉	NaSbO-	0.632 15432	-85-6	0.
0100001	Other antimony compound	其它部化物	O'LLOS II	\$1000	200	0
01000002	Other antimony compound	其它部化物		200		0
02	A02-Amenic and amenic compounds	砷及其化合物				0
02001	Aresenic	钟	As	1.000 7440-	38-2	0
02002	Gallium arsenide	<b>欽</b> 印化合物	GaAs	0.518 1303-0	3.5.47	0
02003	Arsenic pentoxide	五氧化二种	AsiOc	0.652 1303-2		0
02004	Amenic trioxide	三氧化二种	As-Os	0.757 1327-		- 6
0200001		THE RESERVE TO SERVE THE PARTY OF THE PARTY	12100	District Co.		0
	Other arsenic compound					
	Other arsenic compound Other arsenic compound	THE RESERVE THE RE	SELECTION OF THE PERSON OF THE	100		- 11
02000002	Other arsenic compound	能33年(小台th		100		0
0200002	Other arsenic compound A03-Beryllium and its compounds	放及其化合物 被		1000 2000	11.7	.0
0200002 03 03001	Other asenic compound A03-Beryllium and its compounds Beryllium	級	Be	1.000 7440- 0.360 1304-		0
0200002 03 03001 03002	Other asenic compound A03-Beryllium and its compounds Beryllium Beryllium oxide		Be BeO	1.000 7440- 0.360 1304-		0 0
0200002 03 03001 03002 0300001	Other asenic compound A03-Beryllium and its compounds Beryllium Beryllium oxide Other beryllium compound	級	Be			0 0 0
0300002 030001 03002 0300001 0300002	Other arsenic compound A03-Beryllium and its compounds Beryllium Beryllium oxide Other beryllium compound Other beryllium compound	較 氧化較	Be BeO			0 0 0 0
0200002 03 03001 03002 030002 0300001 0300002	Other asenic compound A03-Bervllium and its compounds Bervllium Bervllium oxide Other bervllium compound Other bervllium compound A04-Bismuth and its compounds	放 氧化故 配及其化合物	Be BeO	0.360 1304-	56-9	0 0 0 0 0
02000002 03 030001 030002 0300001 0300002 04 04001	Other asenic compound A03-Bervllium and its compounds Bervllium Bervllium oxide Other bervllium compound Other bervllium compound A04-Bismuth and its compounds Bismuth	較 氧化較 部及其化合物 紹	Be BeO	0.360 1304- 7440-	56-9 69-9	0 0 0 0 0
03000002 03 030001 030002 0300001 0300002 04 04001 04002	Other asenic compounds A03-Bervllium and its compounds Bervllium Bervllium oxide Other bervllium compound Other bervllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide	競 氧化鼓 配及其化合物 紀 三氧化紀	Be BeO Bi Bi <sub>4</sub> O <sub>6</sub>	0.360 1304- 7440- 1304-	56-9 69-9 16-3	0 0 0 0 0 0 0
02000002 03 03001 03002 0300001 0300002 04 04001 04002 04003	Other arsenic compound A03-Beryllium and its compounds Beryllium oxide Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide Bismuth nitrate	競 氧化鼓 郵及其化合物 絕 三氧化絕 硝酸絕	Be BeO Bi Bi <sub>4</sub> O <sub>6</sub> BiN <sub>7</sub> O <sub>6</sub>	0.360 1304- 7440-	56-9 69-9 16-3	0 0 0 0 0 0 0
02000002 03 03001 03002 0300001 0300002 04 04001 04002 04003 0400001	Other arsenic compound A03-Beryllium and its compounds Beryllium oxide Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide Bismuth trioxide Other bismuth compound	競 氧化鼓 配及其化合物 紀 三氧化紀	Be BeO Bi Bi <sub>4</sub> O <sub>6</sub>	0.360 1304- 7440- 1304-	56-9 69-9 16-3	0 0 0 0 0 0 0 0
02000002 03 03001 03002 0300001 0300002 04 04001 04002 040003 0400001 0400002	Other arsenic compound A03-Beryllium and its compounds Beryllium Beryllium outde Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide Bismuth trioxide Bismuth nitrate Other bismuth compound Other bismuth compound	較 氧化較 総及其化合物 紀 三氧化紀 函數紀	Be BeO Bi Bi <sub>4</sub> O <sub>6</sub> BiN <sub>1</sub> O <sub>9</sub>	0.360 1304- 7440- 1304-	56-9 69-9 16-3	0 0 0 0 0 0 0 0 0 0
02000002 03 03001 03002 03000002 04 04001 04002 04003 0400001 0400001	Other arsenic compounds A03-Beryllium and its compounds Beryllium oxide Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide Bismuth trioxide Bismuth nitrate Other bismuth compound Other hismuth compound A11-Nickel and its compounds	數 氧化數 総及其化合物 絕 三氧化絕 函數絕	Be BeO Bi Bi <sub>4</sub> O <sub>6</sub> BiN <sub>7</sub> O <sub>6</sub>	7440-4 1304- 1304- 10361	56-9 69-9 16-3 -44-1	0 0 0 0 0 0 0 0 0 0
0000002 03 03001 03002 2300001 0300002 04 04001 040002 040003 04000001 0400002	Other arsenic compound  A03-Beryllium and its compounds Beryllium oxide Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide Bismuth trioxide Bismuth nitrate Other bismuth compound Other hismuth compound A11-Nickel and its compounds Nickel(II) oxide	較 氧化較 総及其化合物 総 三氧化総 硝酸総 鍵及其化合物 氧化酸	Be BeO Bi Bi <sub>4</sub> O <sub>6</sub> BiN <sub>1</sub> O <sub>9</sub>	0.360 1304- 7440- 1304-	56-9 69-9 16-3 -44-1	0 0 0 0 0 0 0 0 0 0
0200002 03 03001 03002 0300001 0300002 04 04001 04002 04003 040003 040002 11	Other arsenic compounds A03-Beryllium and its compounds Beryllium oxide Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide Bismuth trioxide Bismuth nitrate Other bismuth compound Other hismuth compound A11-Nickel and its compounds	數 氧化數 総及其化合物 絕 三氧化絕 函數絕	Be BeO Bi Bi <sub>4</sub> O <sub>6</sub> BiN <sub>7</sub> O <sub>6</sub>	7440-4 1304- 1304- 10361	56-9 69-9 76-3 -44-1	0 0 0 0 0 0 0 0 0 0
0200002 03 03001 03002 0300001 0300002 04 04 04 04 04 04 02 04 03 04 04 04 04 04 04 04 04 04 04 04 04 04	Other arsenic compound  A03-Beryllium and its compounds Beryllium oxide Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide Bismuth trioxide Bismuth nitrate Other bismuth compound Other hismuth compound A11-Nickel and its compounds Nickel(II) oxide	較 氧化較 総及其化合物 総 三氧化総 硝酸総 鍵及其化合物 氧化酸	Be BeO Bi Bi <sub>4</sub> O <sub>6</sub> BiN <sub>7</sub> O <sub>8</sub>	0.360 1304- 7440- 1304- 10361 0.786 1313-	69-9 76-3 -44-1 99-1 67-3	0 0 0 0 0 0 0 0 0 0 0
0200002 03 03001 03002 0300001 0300002 04 04001 04002 04003 0400002 11 11001 11002 111003	Other arsenic compounds A03-Beryllium and its compounds Beryllium oxide Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide Bismuth nitrate Other bismuth compound Other bismuth compound A11-Nickel and its compounds Nickel(II) oxide Nickel(III) carbonate	數 氧化數 総及其化合物 紀 三氧化総 硝酸紀 鍵及其化合物 氧化線 碳酸線	Be BeO Bi Bi <sub>4</sub> O <sub>6</sub> BiN <sub>2</sub> O <sub>6</sub> NiO NiO <sub>1</sub> NiSO <sub>4</sub>	0.360 1304- 7440- 1304- 10361 0.786 1313- 0.494 3333- 0.379 7786-8	69-9 76-3 -44-1 99-1 67-3 81-4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0200002 03 03001 03002 0300002 03000002 04001 04002 04003 04000002 11 11 11 11 11 11 11 11 11 1	Other arsenic compounds A03-Beryllium and its compounds Beryllium oxide Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide Bismuth nitrate Other bismuth compound Other bismuth compound Nickel(II) oxide Nickel(II) oxide Nickel(II) carbonate Nickel(II) Sulfate Nickel	數 氧化數 総及其化合物 総 三氧化総 函數総 。 鎮及其化合物 氧化線 碳粉線	Be BeO Bi <sub>4</sub> O <sub>6</sub> Bi <sub>4</sub> O <sub>6</sub> Bi <sub>4</sub> O <sub>6</sub> NiO <sub>1</sub> NiSO <sub>4</sub> Ni	0.360 1304- 7440- 1304- 10361 0.786 1313- 0.494 3333-	69-9 76-3 -44-1 99-1 67-3 81-4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0200002 03 03001 03002 0300001 0300002 04 04001 04002 04003 0400001 0400002 11 11001 11002 11003 11004	Other arsenic compound A03-Beryllium and its compounds Beryllium oxide Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth trioxide Bismuth trioxide Bismuth nitrate Other bismuth compound A11-Nickel and its compounds Nickel(II) oxide Nickel(III) oxide Nickel(III) Sulfate Nickel Other nickel compound	數 氧化數 総及其化合物 総 三氧化総 函數総 。 鎮及其化合物 氧化線 碳粉線	Be BeO Bi Bi <sub>4</sub> O <sub>6</sub> BiN <sub>2</sub> O <sub>6</sub> NiO NiO <sub>1</sub> NiSO <sub>4</sub>	0.360 1304- 7440- 1304- 10361 0.786 1313- 0.494 3333- 0.379 7786-8	69-9 76-3 -44-1 99-1 67-3 81-4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0000002 03 03001 03002 0300001 0300002 04001 04002 040003 04000001 111 111 111001 111002 111003 111004	Other arsenic compounds A03-Beryllium and its compounds Beryllium oxide Other beryllium compound Other beryllium compound A04-Bismuth and its compounds Bismuth Bismuth trioxide Bismuth nitrate Other bismuth compound Other bismuth compound Nickel(II) oxide Nickel(II) oxide Nickel(II) carbonate Nickel(II) Sulfate Nickel	數 氧化數 総及其化合物 総 三氧化総 函數総 。 鎮及其化合物 氧化線 碳粉線	Be BeO Bi <sub>4</sub> O <sub>6</sub> Bi <sub>4</sub> O <sub>6</sub> Bi <sub>4</sub> O <sub>6</sub> NiO <sub>1</sub> NiSO <sub>4</sub> Ni	0.360 1304- 7440- 1304- 10361 0.786 1313- 0.494 3333- 0.379 7786-8	69-9 76-3 -44-1 99-1 67-3 81-4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

):	Chemical Category and Example Compounds 21: N & COMPONE + & BOTT PRODUCTOR	中文名稱	Chemical Formula	企業務官系 Example CAS Numbes 動 (not all-inclusive)	O Short
2011		5.油茶-都甲苯胺	C-H <sub>2</sub> N <sub>2</sub> O <sub>2</sub>	99-55-8	0
2011	5-nitro-a-toluidine 3.3'-dichloro-4.4'-	3.5-二氯-4.4-二氨基二苯基甲烷	CaHaClsNs	101-14-4	0
2012	4.4-methylenediamline	4,4二苯二氨基甲烷	CnH <sub>14</sub> N <sub>1</sub>	101-77-9	0
2013	14 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	4, 4二氨基二苯醚	CoHoN <sub>2</sub> O <sub>2</sub>	101-80-4	0
1014	4.4-diaminodiphenylether	別都完設	CHCIN	106-47-8	.0
015	p-Chloroamline	3、3、二甲氧基聯苯胺	CuHaN-O	119-90-4	0
016	3.3-Dimethoxybenzidine		CuH <sub>0</sub> N <sub>2</sub>	119-93-7	0
1017	3,3-Dimethylbenzidene	3.3-二甲基聯苯胺		120-71-8	0
018	p-Cresidene(5-Methyl-o-anisidine)	氨基對甲苯甲醚	C <sub>s</sub> H <sub>13</sub> NO	41770195500	- 0
019	2,4,5-Trimethylaniline	2. 4. 5-均三甲苯胺	C <sub>0</sub> H <sub>10</sub> N	137-17-7	0
020	4.4-Thiodianiline(4.4-	4、4-硫雙苯胺	CnHnN <sub>2</sub> S	139-65-1	
1021	4-methoxy-m-phenylenediamine	2. 4二氨基苯甲醚	C <sub>2</sub> H <sub>10</sub> N <sub>2</sub> O	615-05-4	0
022	3.3-Dimethyl-4.4-Diam-	3、3二甲基-4、4二氨基二苯甲烷	CoHoNy	838-88-0	0
100001	Other Azonitrides Compounds	-		-	0
20000	Other Azonitrides Compounds		-		0
10/10/	C04-Ozone depleting substances	破壞臭氣曆之物質			0
097:	CPC-11	CFC-11	CRCIv	75-69-4	0
	CFC-12	CPC-12	CF-Cb	75-71-8	0
	CPC-113	CPC-113	C <sub>2</sub> F <sub>4</sub> CI <sub>1</sub>	76-13-1	0
	CFC-114	CFC-114	C-F-Cl-	76-14-2	0
		CPC-115	C-F-Cl	76-15-3	0
200	CFC-115		CF-BrCl	353-59-3	0
098	Halon-1211	哈爾(1211	CF <sub>1</sub> BrC1	75-63-8	0
	Halon-1301	哈龍1301		110000000000000000000000000000000000000	0
	Halon-2402	哈龍(2402	C <sub>2</sub> F <sub>4</sub> Br <sub>2</sub>	124-73-2	
099	CFC-13	CPC-13	CF <sub>1</sub> CI	75-72-9	0
	CPC-111	CFC-111	C <sub>2</sub> PCl <sub>4</sub>	354-56-3	0
	CFC-112	CPC-112	C-F-CL	76-12-0	0
	CPC-211	CFC-211	C.FCI:	422-78-6	0
	CFC-212	CPC-212	C-F-CI <sub>6</sub>	3182-26-1	0
	CFC-213	CPC-213	C.F.Ck	134237-31-3	0
	CFC-214	CFC-214	C.F.Cl.	29255-31-0	0
			C <sub>1</sub> F <sub>2</sub> Cl <sub>1</sub>	1599-41-3	0
	CFC-215	CFC-215		661-97-2	0
	CPC-216	CFC-216	C.F.Ch		
	CFC-217	CFC-217	C.F.CI	422-86-6	- 0
100	Carbon tetrachloride	四氧化碳	CCL		0
101	1,1,1-Trichloroethane	1.1.1-三製乙烷	C-H-Cl-		0
102	Chlorobromomethane	<b>紅</b> 須甲烷	CH-BrCl		0
103	Methyl bromide	溴甲烷	CH <sub>3</sub> Br	74-83-9	0
104	HBFCs	HBPC			- 0
1100	Dibromofluoromethane	二溴氟甲烷	CHFBt <sub>2</sub>		0
		海二氟甲烷	CHF-Br		0
	Bromodifluoromethane		CH-FBr	107	0
	Bromofluoromethane	溴氟甲烷			
	Tetrabromofluoroethane	四溴氰乙烷	C₁HFBe <sub>4</sub>	-	0
	Tribromodifluoroethane	三溴二氟乙烷	C <sub>3</sub> HF <sub>3</sub> Br <sub>3</sub>	12	0
	Dibromotrifluoroethane	二溴三氟乙烷	C <sub>2</sub> HF <sub>1</sub> Br <sub>1</sub>	-	0
	Bromotetrafluoroethane	溴四氟乙烷	C <sub>2</sub> HF <sub>4</sub> Be		0
	Tribromofluoroethane	三溴氟乙烷	C <sub>3</sub> H <sub>3</sub> FBr <sub>1</sub>	194	0
	Dibromodifluoroethane	二溴二氟乙烷	C-H-F-Br-		0
	Bromotrifluoroethanc	溴三氟乙烷	C-H-F-Br		0
	Dibromofluoroethane	二溴氟乙烷	C <sub>2</sub> H <sub>3</sub> FB <sub>C</sub>	2	0
			C.H.F.Br		0
	Bromodifluoroethane	溴二氟乙烷		(2)	
	Bromofluoroethane	溴氟乙烷	C <sub>3</sub> H <sub>4</sub> FBr		.0.
	Hexabromofluoropropane	六溴氟丙烷	C.HFBra		0
	Pentabromodifluoropropane	五溴二氟丙烷	C <sub>1</sub> HF <sub>1</sub> Br <sub>1</sub>	557	0
	Tetrabromotnfluoropropane	四溴三氟丙烷	C <sub>4</sub> HF <sub>3</sub> Br <sub>4</sub>		0
	Tribromotetrafluoropropune	三溴四氟丙烷	CdHF <sub>4</sub> Br <sub>1</sub>		0
	Dibromperitidluoroprogane	二溴五氟丙烷	CdFdBo	191	0
	Bromohexafluoropropane	溴六氟丙烷	C <sub>1</sub> HF <sub>1</sub> Br		0
	Pentabromofluoropropane	五溴氟丙烷	C.H.FBr.		0
	Tetrabromodifluoropropune	四溴二氟丙烷	C <sub>3</sub> H <sub>3</sub> F <sub>3</sub> Br <sub>4</sub>	12.2	0
		三進三龍丙烷	C.H.F.Br		-0
	Tribromotrifluoropropune			357	
	Dibromotetriifluoropropune	二溴四氯丙烷	C <sub>1</sub> H <sub>2</sub> F <sub>4</sub> Be <sub>2</sub>	554	0
	Bromopentafluoropropane	澳五氟丙烷	C <sub>1</sub> H <sub>1</sub> F <sub>1</sub> Br	8.60	0
	Tetrabromofluoropropane	四溴氟丙烷	C <sub>1</sub> H <sub>1</sub> FBr <sub>2</sub>		0
	Tribromodifluoropropane	三溴二氟丙烷	C <sub>1</sub> H <sub>1</sub> F <sub>2</sub> Be <sub>1</sub>		0
	Dibromotrifluoropropane	二溴三氟丙烷	C <sub>3</sub> H <sub>3</sub> F <sub>3</sub> Br <sub>2</sub>	-	0
	Bromotetrafluoropropune	溴四氟丙烷	C <sub>4</sub> H <sub>4</sub> F <sub>4</sub> Br	72	0
	Tribromofluoropropane	三溴氟丙烷	C <sub>3</sub> H <sub>4</sub> FBr <sub>3</sub>		-0
	Dibromodifluoropropane	二溴二氟丙烷	C-H <sub>4</sub> F-Br-	252	0
	Bromotrifluoropropine	· 漢三氟円烷	C <sub>1</sub> H <sub>4</sub> F <sub>4</sub> Br		0
			C <sub>3</sub> H <sub>4</sub> FBr <sub>2</sub>	650	
	Dibromofluoropropane	二溴氟丙烷		250	0
	Bromodifluoropropane	澳二氟丙烷	C <sub>1</sub> H <sub>4</sub> F <sub>3</sub> Br	(*)	0
	Bromofluoroeroeune	溴氟四烷	C.H.FBr	0.4	0
	Chlorobromomethane	氣疾丙烷	CH <sub>2</sub> BrCl	-6	0
4105	HCFCs	HCPC	0.0000000000000000000000000000000000000	11.410	- 0
	HCFC-21	HCFC-21		100	0
	HCFC-22	HCFC-22		142	0
			10	251	0
	HCFC-31	HCFC-31		17	
	HCPC-121	HCFC-121		3.5	0
	HCFC-122	HCPC-122	54		0
	HCFC-123 HCFC-123*2	HCFC-123 HCFC-123*2	4	-	0

¥0	Chemical Caregory and Example Compounds 보는 N #대단환한편한, y # 대한편한민본환경	中文名稱	Chemical Formula	企場推算者 Example CAS Numbers 数 (not all-inclusive)	PPM FIL
18013	Triburyltin launte	月柱號三丁茶與	$(C_4H_9)_5SnC_{13}H_{24}O_3$	3090-36-6	0
18014	Bis(tributyltin) phthalate	和苯二甲酸三丁基吗	$(C_aH_a)(COO)_{+}((C_aH_a)$	4782-29-0	0
8015	Copolymer of alkyl acrylate, methyl	烷基烯酸酯、甲基丙基酸甲酯、甲	*	Term and a	0
8016	Tributyltin sulfamate	磺酸三丁基錫	(C <sub>a</sub> H <sub>a</sub> ) <sub>3</sub> SnSO <sub>3</sub> NH <sub>2</sub>	6517-25-5	0
8017	Bis(tributvltin) maleate	馬來酸三丁基與	C <sub>3</sub> H <sub>4</sub> (COO) <sub>7</sub> ((C <sub>4</sub> H <sub>4</sub> ) <sub>1</sub> (C <sub>4</sub> H <sub>4</sub> ) <sub>7</sub> SnCl	14275-57-1 1461-22-9	0
8018	Tributyltin chloride	氧化三丁基與 環戊烷甲酸甲脂三丁基錫及其異構	(C <sub>4</sub> H <sub>6</sub> )-SnCO <sub>3</sub> C <sub>4</sub> H <sub>6</sub>	1401-22-7	0
8019	Mixture of tributyltin	環戊烷甲酸甲酮二丁基胂及共共酶 1.2.3.4.4a.4b.5.6.10.10a.十氪-7-質丙基-		2	0
8020	Mixture of tributyltin	演化三丁基鋼	SCHOOL STORY	1461-23-0	0
8021	Tributyl tin bromide Triphenyl tin	三苯基偶	3-5 1-11-1	668-34-8	0
8023	Triphenyl (in chlorescetate	三苯基偶氮代乙即镰		7094-94-2	0
8024	Triphenyl fin methacrylate	三丁基個甲基甲基丙與酸鹽	-	2155-70-6	0
8025	Tripbenyl tin fluoride	三丁基锡氧化物		1983-10-4	.0
8026	Bis(tributyl tin)2.3-Dibromosuccinute	雙(三丁基磷)2. 3二溴丁二酸鹽		31732-71-5	0
8027	Triphenyl fin acetate	三丁基錫乙酸键(甜酸三丁基酚)		56-36-0	0
18028	Bis/tributyltin/malente	雙(三丁基礎)馬來酸鹽		14275-57-1	0
18029	Mixture of tributyl tin	三丁基第=環戊烷羧酸豐和類似化合		85409-17-2	0
18000001	Other Tributyl Tin & Triphenyl Tin			1	0
1800002	Other Tributyl Tin & Triphenyl Tin	PBB多准聯苯	CoHyBroan	59536-65-1	0
2001	B02-Poly-brominated biphenyls Bromobiohenyl-1	FB0 TR W P	Company	2052-07-05	0
12002	Bromobiobenyl-2		4 - 0 - 20 - 1	2113-57-7	0
12003	Bromobiphenyl-3		3	92-66-0	0
72004	Dibromobisheryl	SS C TOTAL CONTRACTOR		92-86-4	0
02005	Tribromobiphenyl	Harris Ha	7	The state of the s	0
02006	Tetrahromobiphenvl		a line we	40088-45-7	- 0
32007	Pentabromobiohenvl		SIGHT SI	PODE NO D	0
02008	Hexabromobiohenvl-1			59080-40-9	0
72009	Hexahromobiohenyl-2		3 0 11 11	36355-01-8 6777-32-7	0
02010	Hexabromobiebenvi-3			3171-32-1	0
02011	Hectabromobiohem1			61288-13-9	0
02012	Octabromobiphenyl Nonabromobiphenyl		General State of the State of t	04200-13-3	0
02014	Decabomobiphenyl			13654-09-06	- 0
0200001	Other Poly-brominated biohenyls		3	-	0
0200002	Other Poly-bruminated bipbenyls	-	-		0
03	803-Polybrominated diphenyl ethers	PBDEs多溴二苯醚	CoHyBronyoO		0
10000	Bromobiphenyl Ether		-	101-55-3	0
03002	Dibromobiebenvl Ether		3	2050-47-7	0
03003	Tribromobiobenyl Ether			49690-94-0	0
03004	Tetrabromobiphenyl Ether	Company of the compan	*	40088-47-9	0
03005	Pentabromobichenyl Ether	五溴二苯醚		32534-81-9	0
03006	Hexabromobiphenyl Ether	大溴二苯醚		36483-60-0 68928-80-3	0
03007	Herotabromobiphenyl Ether	7 M - 10 M			
03005	Octahomobiphenyl Ether	八溴二苯醚		52536-52-0 63936-56-1	0
03009	Nonahromobiehenvl Ether Decahromobiehenvl Ether	十溴二苯醚		1163-19-5	0
0300001	Other Polybrominated diphenyl others	3.100			0
03000003	Other Polybrominated diphenyl ethers				0
05	B05-Polychlorinated bipbenyls	多氨酰苯(PCB類)			0
05001	Polychlorinated biphenyls	PCB(聚氨腺等)		1336-36-3	0
05002	Polychlorinated terphenyls	PCT(多氯三聯苯)		61788-33-8	0
05000001	Other Polychlorinated biphenyls	200		***************************************	- 0
05000002	Other Polychlorinated biphenvis			Manager and the second	0
06	B06-Polychlorinated biphenyls(Cl=>3)	多氧化汞(氯原子數3個以上)		70776-03-3	0
06000001	Other polychlorinated Napisthalene			El maria and all	0
06000002 09	Other polychlorinated Naphthalese B09-Short Chain Chlorinated paraffine	短鏈氧化石罐		-	0
09001	Chloritated paraffine(C10-13)	似他在组		85535-84-8	0
0900001	Other Short Chain Chlorirated Paraffin	A CONTRACTOR OF THE PARTY OF TH		process of the same of the sam	0
09000002	Other Short Chain Chlorinated Paraffin		2		0
01	C01-Asbestor	石棉			0
01001	Actinolite	陽起石		77536-66-4	0
01002	Amosite	織石棉		12172-73-5	0
01003	Anthophyllite	直閃石		77536-67-5	0
01004	Chrysotile	直石棉		12001-29-5	0
31005	Crocidolite	整石棉		12001-28-4	- 0
01006	Tremolite	透閃石		77536-68-6	0
01000071	Other subsitio	The state of the s			0
0100002 12	Other asbesto C02-Azonitrides Compounds	偶氰化合物		-	0
02001	4-Aminouzobenzene	4-氨基偶氮苯	CoHoN <sub>1</sub>	60-09-3	0
02002	o-Anisidine	<b>型胶基苯甲醚</b>	C <sub>1</sub> H <sub>a</sub> NO	90-04-0	0
02003	2-Naphthylamine	2-奈胺	CoHaN	91-59-8	0
02004	3.3-Dichlorobenzidene	3.3-二凱聯苯胺	C <sub>0</sub> H <sub>i0</sub> Cl <sub>0</sub> N <sub>0</sub>	91-94-1	0
02005	biphenyl-4-ylamine	4-氨基聯苯	CoHoN	92-67-1	0
02006	Benzidine	聯苯胺	C <sub>13</sub> H <sub>13</sub> N <sub>3</sub>	92-87-5	.0
02007	o-Toluidine	都甲苯胺	C <sub>1</sub> H <sub>4</sub> N	95-53-4	0
02008	4-chloro-o-toluidine	4氯-那甲基苯胺	C <sub>1</sub> H <sub>4</sub> CIN	95-69-2	0
	ALL AND ADDRESS OF THE PARTY OF	A x 101 50 40	CHA	07.00.75	0
202009 202010	2,4-toluenediamine o-Aminoazotoluene	2.4-甲苯二胺 都氨基偶氮甲苯	C <sub>1</sub> H <sub>10</sub> N <sub>2</sub> C <sub>14</sub> H <sub>15</sub> N <sub>3</sub>	95-80-7 97-56-3	0

NO.	Chemical Company and Example Compounds 31: N 86/02/4/1992; y 86/04/1999/02/4/8	中文名稱	Chemical Formula	全製換算系 数	Example CAS Numbers (not all-inclusive)	在果 PPM
A09006	Lend (II) oxide	氧化鉛(二價)	PbO	0.928	1317-36-8	0
109007	Lead(II) carbonate basic	赖式碳酸铅	2PbCO_Pb(OH) <sub>5</sub>	0.801	1319-46-6	0
V09008	Lend hydroxidcarbonate	理基础微鉛	2PbCO <sub>1</sub> Pb(OH) <sub>2</sub>	0.801	1344-36-1	0
09009	Lead(II) sulfide	遊戲館	PbSO <sub>4</sub>	0.683	7446-14-2	0
		<b>研育的</b>	Pb <sub>2</sub> (PO <sub>2</sub> ),	0.766	7446-27-7	0
V09010	Lead(II) phosphate		PbCrO <sub>4</sub>	0.641	7758-97-6	0
109011	Lead(II) chromate	STATES		0.686	12060-00-3	0
109012	Lead(II) titsrate	<b></b> 飲飲給	PhTiO <sub>1</sub>			0
£10901	Lead sulfate, suleburic acid, Lead salt		Pb <sub>v</sub> SO <sub>s</sub>	1,000	15739-80-7	
\09014	Lead sulphate .tribusic	三雙基硫酸鉛	PbSO <sub>4</sub> .H <sub>2</sub> O	0.850	12202-17-4	0
109015	Lead stearate	6把指数的	Pb(C <sub>13</sub> H <sub>14</sub> COO) <sub>3</sub>	0.268	1072-35-1	0
109016	Lead stearate dibasic	二艘基硫酸鉛	2PbO.	0.410	56189-09-4	0
109017	Lead /tin allov	前衛合金	2000		39412-44-7	0
109018	Dilead triocide	三氧化二鉛	Pb <sub>2</sub> O <sub>4</sub>		The same of the sa	0
109019	Lead azide	<b>登纸化的</b>	2 3		13424-46-9	0
10902D	Lead (II) fluoride	氮化的(二個)	PbF <sub>1</sub>		7783-46-2	0
109021	Lead (II) chloride	就化的(二個)	PbCl-		7758-95-4	0
109022	Lead (II) chloride	四氧化铂	PbCl.		13463-30-4	0
109023	Lead (II) iodide	孫化原二雅	Phi		10101-63-0	- 0
		<b>氰化的(二價)</b>	PhiCNh		592-05-2	0
109024	Lead (II) cyanide		( Orcital		THE PARTY OF THE P	0
109025	Lead fluoroborate	無化硼鉛			13814-96-5	
/09026	Lead fluorificate	無化硅的	The same of the sa		25908-74-6	0
109027	Lead nitrate	SPANSO .	PhiNOU		10099-74-8	- 0
109028	Lead perchlomte	海鉱化的			13637-76-8	0
109029	Lead thiocyanate	60 ACARDO			592-87-0	0
109030	Lead (II) sulfide	統體局(二億)	PhSO <sub>i</sub>		7446-14-2	0
109031	Lead hydrocurbonate	包集副化約	1200		1319-46-6	0
109032	Lead (II) acetate	和放射(二部)	PbAc		301-04-2	0
109033	Lead (II) accuse, tribydride	三水醋酸亞約(二個)	1000		6080-56-4	0
109034	Lead (IV) acetate	Ministration (ICHM)	Pb(Ac)+		546-67-8	0
109035	Losd sclonide	亞研制的			12069-00-0	0
A09036	Lesd oleste	由無監約	*		1120-46-3	0
109037	Lead(II)memborate	编辑舞台(二價)	*		10214-39-8	0
109038	Lead metasilicate	和 M M M M M M M M M M M M M M M M M M M			11120-22-2122569-	0
109039	Lead antimonate	SEMAND			122666-38-5 / 13150-	0
A09040	Lead amenate(1:1)	5080 SD	2		7734-40-9	0
AD9041	Lead (II)amenate	亞姆教給(二億)			10031-13-7	0
A09042	Load chromate, chrome veillow	就無給. 終版			1344-37-2	0
A09043	Lead molybdate	EBES			10190-55-3	0
		和10年5月5				
A09044	Calcium plumbate				12013-69-3	- 0
A09045	Tetramethyllead	四甲基鉛	*		75-74-1	- 0
A09046	Timethyllead	四乙和	5		78-00-2	0
A0900001	Other lead compound				8	- 0
A0900002	Other lead compound	A CANADA CONTRACTOR OF THE PARTY OF THE PART				0
A10	A10-Mercury and its compounds	汞及其化合物				- 0
A10001	Mercury	来	Hz	1.000	7439-97-6	0
A.10002	Mercuric (II) chloride	二氯化汞(二價)	HgCl <sub>1</sub>	0.739	7487-94-7	0
A10003	Mercuric(II) oxide	氧化汞	HgO	0.926	21908-53-2	0
110004	Mercuric alloys,amalgam	录合金: 果實			15829-53-5	0
110005	Mercuric (I) chloride	二氢化汞(一價)	He-Ch-		10045-94-0	0
110006	Mercunc(I) sulfate	而既求(一價)	Hg-SO.		The state of the s	0
10007	Mercuric(II) nitrate	前能承(二僧)	Hg(NO)		10045-94-0	0
10008	Mercuric sulfide	観化宗	HaS		1344-48-5	0
10009	Mercuric(I) oxide	氧化二汞	Hg-O		15829-53-5	.0
10010	Mercury (II) acetate	前能录(二頃)	HisAc		1600-27-7	0
10011	Methylmercury salts	甲基汞監	-		22967-92-6	0
110012	Ethylmercury salts	乙烷基汞豐	2 1 1 1 1 1 1 1		The state of the s	0
10013	Propylmercury salts	門基汞镍			S THE STATE OF THE	0
10014	Phonylmorcury salts	军基汞镍	BUILDING		-	0
110015	Methoxyethylmercury salts	甲基氧乙烷基汞键	23 12231			0
10016	Dialkylmercury	二维基组织				0
	Diehenvimercury	二苯基汞	2111111111		587-85-9	0
1000		The state of the s	38		20710277	
	Citizen in processor communication	A SHARE THE PARTY OF THE PARTY	MONETON		DATE TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE	0
A1000001	Other mercury compound				*	0
1000001	Other mercury compound	The second secon				0
L1000001 L1000002	Other mercury compound A17-Bis(tri-n-butyltin) oxide	三丁基氧化鋼(TBTO)	20.00 OF 15.00			0
1000001 1000002 17 17001	Other mercury compound A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide	三丁基氧化錫	$O(Sn(C_4H_4)_3)_5$		56-35-9	
\1000001 \1000002 \17 \17001 \17006	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributyltin)oxide	三丁基氧化錫	$O(Sn(C_4H_4)_5)_5$		56-35-9 56-35-9	0
A1700001 A1700002 A17 A17001 A17006 A1700001	Other mercury compound A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others	三丁基氧化錫	$O(Sn(C_4H_4)_1)_3$			
A1700001 A17001 A17006 A170001	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributyltin)oxide	三丁基氧化錫	$O(Sn(C_4H_4)_3)_3$			0
A1000001 A1000002 A17 A17001 A1700001 A1700001	Other mercury compound A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others	三丁基氧化鄉 雙三丁基錫氧化物	$O(Sn(C_4H_4)_3)_3$			0 0
A1000001 A1000002 A17 A17001 A170006 A1700001 A1700002	Other mercury compound A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others A18-TBT#56/TPT#6	三丁基氧化錫 雙三丁基錫氧化物 三丁基錫朝&三苯基錫朝			56-35-9	0 0 0
A1700001 A17001 A17001 A17006 A1700001 A1700002 A18 A18001	Other mercury compound A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others others A18-TBT類&TPT類 Triphenyl tin N.N-Dimethyldithiocar-	三丁基氧化鄉 雙三丁基錫氧化物 三丁基錫類&三苯基錫類 三苯基錫NN-二甲基二硫代氨基甲	(CaHa-Sn(CHa-NCS		56-35-9 1803-12-9	0 0 0 0
A1700001 A17001 A17001 A170006 A1700001 A1700002 A18 A18001 A18002	Other mercury compound A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others A18-TBT類&TPT類 Triphenyl tin N.N-Dimethyldithiocar- Triphenyl tin fluoride	三丁基氧化錫 雙三丁基錫氧化物 三丁基錫類&三苯基錫類 三苯基錫NN-二甲基二硫代氨基甲 氟化三苯基錫	(C.H.).Sn(CH.).NCS (C.H.).SnF		56-35-9 1803-12-9 379-52-2	0 0 0 0 0
A1700001 A17001 A17001 A17006 A1700001 A1700002 A18 A18001 A18002 A18003	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others others A18-TBT\$\$\tilde{\tiii}\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde	三丁基氧化錫 雙三丁基錫氧化物 三丁基錫類&三苯基錫類 三苯基錫NN-二甲基二硫代氨基甲 氟化三苯基錫 醋酸三苯基錫	(C.H.).Sn(CH.).NCS (C.H.).SnF (C.H.).SnOCOCH:		56-35-9 1803-12-9 379-52-2 900-95-8	0 0 0 0 0
A17000001 A17001 A170001 A1700001 A1700001 A1700002 A18 A18001 A18002 A18003 A18004	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others  A18-TBT\$\$\$\tilde{K}TPT\$\$\$\$\$\$\$\$\$\$\$Inbenyl tin N.N-Dimethyldisthiocar- Triphenyl tin fluoride Triphenyl tin acetate Triphenyl tin chloride	三丁基氧化錫 雙三丁基錫氧化物 三丁基錫賴&三苯基錫類 三苯基錫N.N-二甲基二硫代氨基甲 氟化三苯基錫 氫化三苯基錫 氧化三苯基錫	(C.H.).Sn(CH.).NCS (C.H.).SnF (C.H.).SnOCOCH: (C.H.).SnCI		56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7	0 0 0 0 0
A17000001 A17000002 A17001 A170006 A1700001 A1700002 A18 A18001 A18002 A18003 A18003 A18004 A18005	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others  A18-TBT##&TPT## Triphenyl tin N.N-Dimethyldithiocar- Triphenyl tin fluoride Triphenyl tin acetate Triphenyl tin chloride Triphenyl tin chloride Triphenyl tin chloride Triphenyl tin chloride	三丁基氧化鄉 雙三丁基錫額化物 三丁基錫額及三苯基錫類 三苯基錫NN-二甲基二硫代氨基甲 氟化三苯基錫 氯化三苯基锡 氯化三苯基锡 氯化三苯基锡	(C.H.).Sn(CH.).NCS (C.H.).SnF (C.H.).SnOCOCH; (C.H.).SnCI (C.H.).SnOH		56-35-9 1803-12-9 379-52-2 900-95-8	0 0 0 0 0
A17000001 A17001 A170001 A1700001 A1700001 A1700002 A18 A18001 A18002 A18003 A18004 A18005 A18006	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others  A18-TBT\$\$\$\tilde{K}TPT\$\$\$\$\$\$\$\$\$\$\$Inbenyl tin N.N-Dimethyldisthiocar- Triphenyl tin fluoride Triphenyl tin acetate Triphenyl tin chloride	三丁基氧化錫 雙三丁基錫氧化物 三丁基錫賴&三苯基錫類 三苯基錫N.N-二甲基二硫代氨基甲 氟化三苯基錫 氫化三苯基錫 氧化三苯基錫	(C.H.).Sn(CH.).NCS (C.H.).SnF (C.H.).SnOCOCH; (C.H.).SnCI (C.H.).SnOH		56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7	0 0 0 0 0 0 0
A17000001 A17001 A17001 A170001 A1700001 A1700002 A18001 A18002 A18003 A18004 A18005 A18006	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others  A18-TBT##&TPT## Triphenyl tin N.N-Dimethyldithiocar- Triphenyl tin fluoride Triphenyl tin acetate Triphenyl tin chloride Triphenyl tin chloride Triphenyl tin chloride Triphenyl tin chloride	三丁基氧化鄉 雙三丁基錫氧化物 三丁基錫類及三苯基錫類 三苯基錫N.N-二甲基二硫代氨基甲 氟化三苯基錫 酚酸三苯基锡 氢化三苯基锡 三苯基锡氧化粥 三苯基锡氧化粥	(C.H.) Se(CH.) NCS (C.H.) Sef(CH.) (C.H.) SeOCOCH: (C.H.) SeOH		56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 47672-31-1	0 0 0 0 0 0 0 0
A17000001 A17001 A17001 A1700001 A1700001 A1700002 A18001 A18002 A18003 A18004 A18005 A18006 A18007	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others others A18-TBT#6&TPT#6 Triphenyl tin N.N-Dimethyldithiocar- Triphenyl tin fluoride Triphenyl tin acetate Triphenyl tin chloride Triphenyltin hydroxide Triphenyltin fatty acid salts (C=9-11) Triphenyltin chloroxides	三丁基氧化錫 雙三丁基錫氧化物 三丁基錫類&三苯基錫類 三苯基錫N.N.二甲基二硫代氨基甲 氟化三苯基錫 酚酸三苯基锡 氯化三苯基锡 氯化三苯基锡 三苯基锡氧氧化 三苯基锡氧氧化 三苯基锡氧氧化 三苯基锡氧氧化 三苯基锡氧氧化 三苯基锡	(C.H.).Se(CH.).NCS (C.H.).Sef (C.H.).SeOCOCH: (C.H.).SeOH (C.H.).SeOH		56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 47672-31-1 7094-94-2	0 0 0 0 0 0 0 0 0
A1000001 A1000002 A17 A17001 A17006 A1700001 A1700002 A18001 A18002 A18003 A18005 A18005 A18006 A18007 A18008	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others others  A18-TBT#M&TPT#II Triphenyl tin N.N-Dimethyldithiocar- Triphenyl tin acetate Triphenyl tin acetate Triphenyltin hydroxide Triphenyltin fatty acid salts (C=9-11) Triphenyltin chloroxicetate Triphenyltin methacrylate	三丁基氧化錫 雙三丁基錫氧化物 三丁基錫類&三苯基錫類 三苯基錫N.N-二甲基二硫代氨基甲 氟化三苯基錫 酚酸三苯基錫 氯化三苯基锡 氯化三苯基锡 三苯基锡氧化錫 三苯基锡酚胺镍(斯纺酸的碳原子 氨化三丁基锡 丙基酸甲酯三丁基锡	(C.H.) Se(CH.) NCS (C.H.) Sef (C.H.) SeOCOCH: (C.H.) SeOH (C.H.) SeOCOCH;CI (C.H.) SeCH(O;		56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 47672-31-1 7094-94-2 2155-70-6	0 0 0 0 0 0 0 0 0
A1000001 A1000002 A17 A17001 A17006 A1700001 A1700002 A18 A18001 A18002 A18003 A18003 A18006 A18006 A18006 A18007 A18008 A18009	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others others A18-TBT#5&TPT#6 Triphenyl tin N.N-Dimethyldithiocar- Triphenyl tin fluoride Triphenyl tin acetate Triphenyl tin chloride Triphenyltin hydroxide Triphenyltin fluoride Triphenyltin factoxide Triphenyltin factoxide Triphenyltin factoxide Triphenyltin funarate Bis(tributyltin) fumarate	三丁基氧化錫 雙三丁基錫氧化物 三丁基錫類公二甲基二硫代氨基甲 氟化三苯基錫 酚酸三苯基錫 氯化三苯基锡 氯化三苯基锡 三苯基锡氧化锡 三苯基氯氧化锡 三苯基氯氧化锡 三苯基氯氧化锡 三苯基氯氧化锡 三苯基氯氧化锡 三苯基氯氧化锡 三苯基氯氧化锡	(C.H.) Se(CH.) NCS (C.H.) Sef (C.H.) SeOCOCH; (C.H.) SeOCOCH; (C.H.) SeOCOCH; (C.H.) SeCOCOCH; (C.H.) SecOCO		56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 47672-31-1 7094-94-2 2155-70-6 6454-35-9	0 0 0 0 0 0 0 0 0 0
A1000001 A1000002 A17 A17001 A17006 A1700001 A1700001 A18001 A18002 A18003 A18005 A18005 A18006 A18006 A18006 A18007 A18008 A18009 A18009	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others others  A18-TBT\$\$6.TPT\$\$  Triphenyl tin N.N-Dimethyldithiocar- Triphenyl tin fluoride Triphenyl tin acetate Triphenyl tin chloride Triphenyltin hydroxide Triphenyltin fatty acid salts (C=9-11) Triphenyltin chloroacetate Tributyltin methacrylate Bis(tributyltin) fumarate Tributyltin fluoride	三丁基氧化鄉 雙三丁基錫氧化物 三丁基錫類及三苯基錫類 三苯基錫N.N.二甲基二硫代氨基甲 氟化三苯基錫 歐乙三苯基錫 氯化三苯基锡 三苯基氯氧氧化與 三苯基氯氧酚的酸镍(脂肪酸的碳原子 氧化三丁基錫 三丁基錫高馬酸鹼 氧化三苯基錫	(C.H.) Se(CH.) NCS (C.H.) Sef (C.H.) SeOCOCH; (C.H.) SeOCOCH; (C.H.) SeOCOCH; (C.H.) SeCOCH; (C.H.) SeCOCH; (C.H.) SeCOCH; (C.H.) SeCOCH; (C.H.) SeCOCH; (C.H.) SeCOCH; (C.H.) SeCOCH;		56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 47672-31-1 7094-94-2 2155-70-6 6454-35-9 1983-10-4	0 0 0 0 0 0 0 0 0 0
A10017 A1000001 A1000002 A17 A17001 A17006 A1700001 A1700001 A18001 A18002 A18003 A18004 A18005 A18006 A18006 A18007 A18008 A18009 A18010 A18011 A18012	Other mercury compound  A17-Bis(tri-n-butyltin) oxide Bis(tri-n-butyltin) oxide Tributyl tin oxide bis(tributy tin)oxide others others A18-TBT#5&TPT#6 Triphenyl tin N.N-Dimethyldithiocar- Triphenyl tin fluoride Triphenyl tin acetate Triphenyl tin chloride Triphenyltin hydroxide Triphenyltin fluoride Triphenyltin factoxide Triphenyltin factoxide Triphenyltin factoxide Triphenyltin funarate Bis(tributyltin) fumarate	三丁基氧化錫 雙三丁基錫氧化物 三丁基錫類公二甲基二硫代氨基甲 氟化三苯基錫 酚酸三苯基錫 氯化三苯基锡 氯化三苯基锡 三苯基锡氧化锡 三苯基氯氧化锡 三苯基氯氧化锡 三苯基氯氧化锡 三苯基氯氧化锡 三苯基氯氧化锡 三苯基氯氧化锡 三苯基氯氧化锡	(C.H.) Se(CH.) NCS (C.H.) Sef (C.H.) SeOCOCH; (C.H.) SeOCOCH; (C.H.) SeOCOCH; (C.H.) SeCOCOCH; (C.H.) SecOCO		56-35-9 1803-12-9 379-52-2 900-95-8 639-58-7 76-87-9 47672-31-1 7094-94-2 2155-70-6 6454-35-9	0 0 0 0 0 0 0 0 0 0

### 產品含有害物質\_非刻意添加宣告書 "Unintentionally Added" Declaration for RoHS

#### 此宣告確認產品中含有害物質乃基於以下一項或多項原因

- 1. 天然雜質
- 2. 製程上不可避免
- 3. 符合RoHS排除條款

This purpose to declare for RoHS(Restriction of Hazardous Substances) that satisfies any of the following conditions:

- 1) One contained in a natural material, which cannot technically be removed in a refining process totally (i.e. natural impurities)
- 2) One generated in a synthesis process, the total removal of which is technically impossible. Additionally, there are substances called "impurities," the name of which is used to distinguish them from main materials.
- 3)Comply to 2002/95/EC "Applications of lead, mercury, cadmium and hexavalent chromium, which are exempted from the requirements of Article 4(1)"

### 註:如添加目的為改變物質特性,稱為含有或故意添加

If they are used for the purpose of changing the characteristics of a material, they are treated as "Contained" or " Intentionally Added"

#### 宣告之產品(Parts List of Declaration)

料號: C407-510316-A

名稱: RF Antenna Cable Assembly

有毒物質所在部位:鉚釘

有毒物質含量: Pb=24987.5PPM

※符合ROHS排除條款→銅合金類 Pb < 40000PPM

# 請簡單描述含有害物質的原因(Please to describe the cause of containted Hazardous Substances)

物料材質即內含

公司名稱(Company)	填寫人(Prepared by)
華裕實業股份著限公園	柯美雪

蓝保证上表各欄所填均屬實,如有固所填不實,造成可歸因於本公司之不良結果,本公司願負所衍生之責任 It is promised that the filled column is true. If it makes bad influence resulting from the false filling in caused by our company, we will be responsibile for them.