

測試報告 Test Report

號碼(No.): KA/2012/60009A-02 日期(Date): 2012/06/21 頁數(Page): 1 of 17

永鎮(東莞)電子有限公司

DONGGUAN YOUNG TOWN ELECTRONICS CO., LTD.

廣東省東莞市長安鎮錦廈河東第二工業區

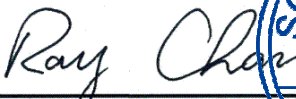
THE 2ND. INDUSTRIAL AREA HEDONG JINXIA CHANGAN TOWN DONGGUAN CITY GUANG DONG CHINA.

以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : 石英鐘機芯 (QUARTZ CLOCK MOVEMENT)
樣品型號(Style/Item No.) : 12888S SERIES
Lot No. : 請見第11~13頁 (SEE PAGE 11~13)
收件日期(Sample Receiving Date) : 2012/06/05
測試期間(Testing Period) : 2012/06/05 TO 2012/06/08

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測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

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


Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited



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THE 2ND. INDUSTRIAL AREA HEDONG JINXIA CHANGAN TOWN DONGGUAN CITY GUANG DONG CHINA.

測試樣品(Test Sample):

測試部位(PART NAME) No.1 : 混測:石英鐘機芯 (MIXED ALL PARTS:QUARTZ CLOCK MOVEMENT)

測試方法:

參照SGS內部方法RSTS-EE-SVHC-003, RSTS-EE-SVHC-004, RSTS-EE-SVHC-006. 由感應藕合電漿原子發射光譜儀, 紫外光可見光譜儀, 氣相層析質譜儀, 氣相層析質譜儀/電子捕捉偵測器, 氣相層析火焰光度計分析, 液相層析質譜儀, 液相層析儀/二極體陣列偵測器進行分析。(SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004, RSTS-EE-SVHC-006. Analyzed by IICP-AES, UV-VIS, GC/MS, GC/ECD, GC/FPD, LC/MS, LC/DAD.)

測試結果 (Test Results)

物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)	分類 (Classification)
		No.1		
蔥 / Anthracene (CAS No.: 120-12-7)	%	n.d.	0.005	PBT
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane (CAS No.: 101-77-9)	%	n.d.	0.005	CC2
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	n.d.	0.005	TRC2
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	n.d.	0.005	TRC2
鄰苯二甲酸二(2-乙基己基)酯 / Bis (2-ethyl(hexyl) phthalate) (DEHP) (CAS No.: 117-81-7)	%	n.d.	0.005	TRC2
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)	%	n.d.	0.005	vPvB
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	%	n.d.	0.005	PBT
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	%	n.d.	0.01	PBT

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THE 2ND. INDUSTRIAL AREA HEDONG JINXIA CHANGAN TOWN DONGGUAN CITY GUANG DONG CHINA.

物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)	分類 (Classification)
		No.1		
三丁基錫氧化物 / Bis(tributyltin)oxide*** (CAS No.: 56-35-9)	%	n.d.	-	PBT
二氯化鈷 / Cobalt dichloride (CAS No.: 7646-79-9)	%	n.d.	0.005	CC2; TRC2
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	%	n.d.	-	CC1
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 1327-53-3)	%	n.d.	-	CC1
三乙基砷酸酯 / Triethyl arsenate*** (CAS No.: 15606-95-8)	%	n.d.	-	CC1
砷酸 / Arsenic acid*** (CAS No.: 7778-39-4)	%	n.d.	-	CC1
砷酸鈣 / Calcium arsenate*** (CAS No.: 7778-44-1)	%	n.d.	-	CC1
砷酸鉛 / Trilead diarsenate*** (CAS No.: 3687-31-8)(※ 1)	%	n.d.	-	CC1; TRC1
砷酸氫鉛 / Lead hydrogen arsenate*** (CAS No.: 7784-40-9)	%	n.d.	-	CC1; TRC1
疊氮化鉛 / Lead diazide*** (CAS No.: 13424-46-9)	%	0.0183	-	TRC1
中性斯蒂酚酸鉛 / Lead styphnate*** (CAS No.: 15245-44-0)	%	0.0283	-	TRC1
苦味酸鉛 / Lead dipicrate*** (CAS No.: 6477-64-1)	%	0.0416	-	TRC1
重鉻酸鈉 / Sodium dichromate*** (CAS No.: 10588-01-9, 7789-12-0(*))	%	n.d.	-	CC2; MC2; TRC2
鉻酸鈉 / Sodium chromate*** (CAS No.: 7775-11-3)	%	n.d.	-	CC2; MC2; TRC2
重鉻酸銨 / Ammonium dichromate*** (CAS No.: 7789-09-5)	%	n.d.	-	CC2; MC2; TRC2

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		No.1		
重鉻酸鉀 / Potassium dichromate*** (CAS No.: 7778-50-9)	%	n.d.	-	CC2; MC2; TRC2
鉻酸鉀 / Potassium chromate*** (CAS No.: 7789-00-6)	%	n.d.	-	CC2; MC2
三氧化鉻 / Chromium trioxide *** (CAS No.: 1333-82-0)	%	n.d.	-	CC2; MC2
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸 / Acids generated from chromium trioxide and their oligomers: Chromic acid*** (CAS No.: 7738-94-5)	%	n.d.	-	CC2
從三氧化鉻與其它寡聚體生成的酸類: 重鉻酸 / Acids generated from chromium trioxide and their oligomers: Dichromic acid*** (CAS No.: 13530-68-2)	%	n.d.	-	CC2
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸與重鉻酸的寡聚體 / Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid (*1)	%	n.d.	-	CC2
鉻酸鋇 / Strontium chromate*** (CAS No.: 7789-06-2)	%	n.d.	-	CC2
鉻酸鉻 / Dichromium tris (chromate)*** (CAS No.: 24613-89-6)	%	n.d.	-	CC2
氫氧化鉻酸鋅鉍 / Potassium hydroxyoctaoxodizincatedi- chromate*** (CAS No.:	%	n.d.	-	CC1
八氫氧化五鉻酸鋅 / Pentazinc chromate octahydroxide*** (CAS No.: 49663-84-5)	%	n.d.	-	CC1
蔥油 / Anthracene oil (CAS No.: 90640-80-5) (**)	%	n.d.	0.05	PBT; vPvB; CC2
蔥油, 蔥糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)	%	n.d.	0.05	PBT; vPvB; CC2; MC2

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		No.1		
蔥油, 蔥糊, 蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)	%	n.d.	0.05	PBT; vPvB; CC2; MC2
蔥油, 含蔥量少 / Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**)	%	n.d.	0.05	PBT; vPvB; CC2; MC2
蔥油, 蔥糊 / Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)	%	n.d.	0.05	PBT; vPvB; CC2; MC2
煤瀝青, 高溫 / Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**)	%	n.d.	0.05	PBT; vPvB; CC2
矽酸鋁, 耐火陶瓷纖維 / Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	CC2
矽酸鋁, 耐火陶瓷纖維 (主要成分濃度於可變範圍內) / Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	CC2
鋁矽酸鋁, 耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	CC2
鋁矽酸鋁, 耐火陶瓷纖維 (主要成分濃度於可變範圍內) / Zirconia Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	CC2
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%	n.d.	0.005	TRC2
2,4-二硝基甲苯 / 2,4-Dinitrotoluene (CAS No.: 121-14-2)	%	n.d.	0.005	CC2
磷酸三(2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	%	n.d.	0.005	TRC2
鉻酸鉛 / Lead chromate (CAS No.: 7758-97-6)	%	n.d.	0.01	CC2; TRC1
鉬鉻紅; 顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 12656-85-8)	%	n.d.	0.01	CC2; TRC1
鉻酸鉛; 顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 1344-37-2)	%	n.d.	0.01	CC2; TRC1

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		No.1		
丙烯醯胺 / Acrylamide (CAS No.: 79-06-1)	%	n.d.	0.005	CC2; MC2
硼酸 / Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	%	n.d.	-	TRC2
無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	%	n.d.	-	TRC2
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (*2)	%	n.d.	-	TRC2
三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)	%	n.d.	0.005	CC2
硫酸鈷(二價) / Cobalt(II) sulphate*** (CAS No.: 10124-43-3)	%	n.d.	-	CC2; TRC2
硝酸鈷(二價) / Cobalt(II) dinitrate*** (CAS No.: 10141-05-6)	%	n.d.	-	CC2; TRC2
碳酸鈷(二價) / Cobalt(II) carbonate*** (CAS No.: 513-79-1)	%	n.d.	-	CC2; TRC2
醋酸鈷(二價) / Cobalt(II) diacetate*** (CAS No.: 71-48-7)	%	n.d.	-	CC2; TRC2
乙二醇甲醚 / 2-Methoxyethanol (CAS No.: 109-86-4)	%	n.d.	0.005	TRC2
乙二醇乙醚 / 2-Ethoxyethanol (CAS No.: 110-80-5)	%	n.d.	0.005	TRC2
乙二醇乙醚乙酸酯 / 2-ethoxyethyl acetate (CAS No.: 111-15-9)	%	n.d.	0.05	TRC2
鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯 / 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (CAS No.: 68515-42-4)	%	n.d.	0.05	TRC2
聯氨 / Hydrazine (CAS No.: 7803-57-8; 302-01-2)	%	n.d.	0.05	CC2
N-甲基吡咯烷酮 / 1-methyl-2-pyrrolidone (CAS No.: 872-50-4)	%	n.d.	0.05	TRC2

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		No.1		
1,2,3-三氯丙烷 / 1,2,3-trichloropropane (CAS No.: 96-18-4)	%	n.d.	0.05	CC2; TRC2
鄰苯二甲酸二(C6-8支鏈與直鏈)烷基酯, 富C7 / 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (CAS No.: 71888-89-6)	%	n.d.	0.05	TRC2
甲醛與苯胺的寡聚體 / Formaldehyde, oligomeric reaction products with aniline (technical MDA) (CAS No.: 25214-70-4)	%	n.d.	0.05	CC2
鄰苯二甲酸二甲氧基乙酯 / Bis(2-methoxyethyl) phthalate (CAS No.: 117-82-8)	%	n.d.	0.05	TRC2
鄰甲氧基苯胺 / 2-Methoxyaniline; o-Anisidine (CAS No.: 90-04-0)	%	n.d.	0.05	CC2
對特辛基苯酚 / 辛基酚 / 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	%	n.d.	0.05	相同危害等級 (Equivalent concern)
1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	%	n.d.	0.05	CC2
双(2-甲氧基乙基)醚 / Bis(2-methoxyethyl) ether (CAS No.: 111-96-6)	%	n.d.	0.05	TRC2
N,N-二甲基乙醯胺 / N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	%	n.d.	0.05	TRC2
4,4'-亞甲雙(2-氯苯胺) / 2,2'-dichloro-4,4'-methylenedianiline (MOCA) (CAS No.: 101-14-4)	%	n.d.	0.05	CC2
酚酞 / Phenolphthalein (CAS No.: 201-004-7)	%	n.d.	0.05	CC2

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測試報告

Test Report

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永鎮(東莞)電子有限公司

DONGGUAN YOUNG TOWN ELECTRONICS CO., LTD.

廣東省東莞市長安鎮錦廈河東第二工業區

THE 2ND. INDUSTRIAL AREA HEDONG JINXIA CHANGAN TOWN DONGGUAN CITY GUANG DONG CHINA.

備註(Note):

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d.= not detected = below Reporting Limit / 未檢出
3. RL = Reporting Limit / 報告極限值
4. "-" = Not Regulated (無規格值)
5. 列於附錄A中之分類定義是根據67/548/EE以及Regulation (EC) No 1907/2006 (Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006)。
6. (*): 重鉻酸鈉二水合物(CAS No.: 007789-12-0)含量 = 重鉻酸鈉含量 × 1.1374
(conc. of Sodium dichromate dihydrate = conc. of sodium dichromate × 1.1374)
7. (**): 上述混合物的濃度是經由所獲得的成分比例介於被選擇標靶物及混合物所推估出來。 / The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
8. (*1): 鉻酸與重鉻酸的寡聚體: 因為其寡聚體是由未知數的鉻酸或與重鉻酸所組成, 而導致沒有固定分子量, 因此以單體鉻酸或重鉻酸較為重要並應被考慮。 / Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.
9. (*2): 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作為代表(歐洲化學總署回信編號 Ref no.: INC 000000032519) / Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
10. ***: 該物質是由"三丁基錫"或各別元素(例如: 砷、鉛、六價鉻、硼或鈷)之測試結果計算得知。
The substance was calculated by the test results of Tributyl Tin or element (Ex. Arsenic, Lead, Cr(VI), Boron or Cobalt respectively).
11. 樣品的測試是基於申請人要求混合測試, 報告中的混合測試結果不代表其中個別單一材質的含量。(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)
12. ※: 被萃取出的溶出硼/砷/鈷是以感應耦合電漿原子發射光譜儀檢測得之。 / The extracted soluble Boron / Arsenic / Cobalt is detected by ICP-AES.
13. 此為2012/6/13所發行KA/2012/60009R1之加發報告, 原始資料請參考KA/2012/60009R1。 / This is the additional test report of KA/2012/60009R1 which was issued on 2012/6/13.

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測試報告

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永鎮(東莞)電子有限公司

DONGGUAN YOUNG TOWN ELECTRONICS CO., LTD.

廣東省東莞市長安鎮錦廈河東第二工業區

THE 2ND. INDUSTRIAL AREA HEDONG JINXIA CHANGAN TOWN DONGGUAN CITY GUANG DONG CHINA.

AX = A × F

AX	A	F
五氧化二砷 / Diarsenic pentaoxide	砷 / Arsenic	1.5339
三氧化二砷 / Diarsenic trioxide		1.3203
三乙基砷酸酯 / Triethyl arsenate		3.0179
砷酸氫鉛 / Lead hydrogen arsenate		4.6332
砷酸鉛 / Trilead diarsenate	鉛 / Lead	1.6753
苦味酸鉛 / Lead dipicrate		3.2017
中性斯蒂酚酸鉛 / Lead styphnate		2.1732
疊氮化鉛 / Lead diazide		1.4056
砷酸 / Arsenic acid	砷 / Arsenic	1.447
砷酸鈣 / Calcium arsenate		6.0025
三丁基錫氧化物 / Bis(tributyltin)oxide	三丁基錫 / Tributyl Tin (TBT)	1.8946
硼酸 / Boric acid	硼 / Boron	2.6566
無水四硼酸二鈉 / Disodium tetraborate, anhydrous		1.0276
水合硼酸鈉(五水四硼酸二鈉) / Disodium tetraborate, pentahydrate		5.7195
水合硼酸鈉(十水四硼酸二鈉) / Disodium tetraborate, decahydrate		4.6531
硫酸鈷(二價) / Cobalt(II) sulphate	鈷 / Cobalt	6.7361
硝酸鈷(二價) / Cobalt(II) dinitrate		8.8191
碳酸鈷(二價) / Cobalt(II) carbonate		2.63
醋酸鈷(二價) / Cobalt(II) diacetate		3.1042
		2.0183
		3.0038

"砷酸氫鉛"之濃度是取砷及鉛兩者各別換算出砷酸氫鉛濃度，並取其之最小值做為最後出報告之依據。

(Regarding lead hydrogen arsenate lead and arsenic are tested and used for the calculation of the separated concentration of lead hydrogen arsenate. The final concentration of lead hydrogen arsenate for the report uses the minimum value of above-mentioned two concentration of lead hydrogen arsenate.)

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THE 2ND. INDUSTRIAL AREA HEDONG JINXIA CHANGAN TOWN DONGGUAN CITY GUANG DONG CHINA.

AX = A × F

AX	A	F
重鉻酸鈉 / Sodium dichromate	六價鉻 / Hexavalent Chromium Cr(VI)	2.5192
鉻酸鈉 / Sodium chromate		3.1151
重鉻酸銨 / Ammonium dichromate		2.4239
重鉻酸鉀 / Potassium dichromate		2.8289
鉻酸鉀 / Potassium chromate		3.7347
三氧化鉻 / Chromium trioxide		1.9231
鉻酸 / Chromic acid		2.2696
重鉻酸 / Dichromic acid		2.0963
鉻酸鋇 / Strontium chromate		3.9159
氫氧化鉻酸鋅 / Pentazinc chromate octahydroxide		11.1345
氫氧化鉻酸鋅鉀 / Potassium hydroxyoctaoxidizincatedi-chromate		4.0277
鉻酸鉻 / Dichromium tris (chromate)		2.8975

測試結果如下(The test result is given as):

物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)
		No.1	
三丁基錫 / Tributyl Tin (TBT)	%	n.d.	0.005
砷 / Arsenic (As) (Note※)	%	n.d.	0.005
鉛 / Lead (Pb)	%	0.013	0.005
六價鉻 / Hexavalent Chromium Cr(VI)	%	n.d.	0.005
硼 / Boron (B) (Note※)	%	n.d.	0.005
鈷 / Cobalt (Co)	%	n.d.	0.005

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永鎮(東莞)電子有限公司

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廣東省東莞市長安鎮錦廈河東第二工業區

THE 2ND. INDUSTRIAL AREA HEDONG JINXIA CHANGAN TOWN DONGGUAN CITY GUANG DONG CHINA.

Lot No:

12888S SERIES	12888S,12888SB,12888SB1,12888SB2,12888SC,12888SC1,12888SC3-S,12888SC5,12888SA,12888SA0,12888SA1,12888SA2,12888SA5-S,,12888RS,12888RSA0
12888SD SERIES	12888SD, 12888SDA, 12888SDH, 12888SDHA, 12888SDMC,12888SDW, 12888SDWA
12888SE SERIES	12888SE,12888SBE, 12888SB1E, 12888SB2E, 12888SC1E, 12888SC3E, 12888SC5E, 12888SCE,12888SAE, 12888SA1E,12888SA5E
12888SH SERIES	12888SH, 12888SHA, 12888SHB, 12888SHB1, 12888SHB2, 12888SHC1, 12888SHC, 12888SHE
12888SK SERIES	12888SK, 12888SCK, 12888SC1K,12888SC3K, 12888SC5K, 12888SB2K, 12888SB1K, 12888SBK,12888SA5K
12888SL SERIES	12888SL, 12888SAL, 12888SBL, 12888SB1L, 12888SB2L, 12888SC1L, 12888SCL
12888SM SERIES	12888SM0, 12888SM, 12888SMC1, 12888SMC, 12888SMW, 12888SMC5, 12888STM0, 12888STM, 12888STMC1, 12888STMC5, 12888STMC, 66LCD,40LCD
12888S2M SERIES	12888S2M, 12888S2MC1, 12888S2MC5, 12888S2MC, 12888S2MB2, 12888S2MB, 12888S2MB1
12888ST SERIES	12888ST, 12888STB, 12888STB1, 12888STB2, 12888STC, 12888STC1, 12888STC3, 12888STC5, 12888STA, 12888STA0, 12888STA1, 12888STA2, 12888STA5, 12888STL, 12888STAL, 12888STB2L
12888SW SERIES	12888SW, 12888SAW, 12888SA0W, 12888SA1W, 12888SA2W, 12888SC1W, 12888SCW, 12888SW-D
12888W SERIES	12888W, 12888WA, 12888WT, 12888WTA
12888SWD SERIES	12888SWDA, 12888SWDB, 12888SWDC
12888SWK SERIES	12888SWK, 12888SWKC

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永鎮(東莞)電子有限公司

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THE 2ND. INDUSTRIAL AREA HEDONG JINXIA CHANGAN TOWN DONGGUAN CITY GUANG DONG CHINA.

Lot No:

12888SMP SERIES	12888SMP, 12888SMP-M, 12888SMP-SD, 12888SMP-SW, 12888SMP-SM, 12888SMP-C, 12888SMP-R, 12888SMP-MS, 12888SMP-MSTD, 12888SMP-MSTM, 12888SMP-MSTW, 12888SMP-MSHD, 12888SMP-MSHM, 12888SMP-MSHW
12888V1 SERIES	12888V1, 12888V3
12888D2 SERIES	12888D2, 12888D2E, 12888D2ER, 12888D2R, 12888D2A, 12888D2A0, 12888D2A1, 12888D2B, 12888D2BR, 12888D2BE, 12888D2B1, 12888D2B2, 12888D2B2E, 12888D2B2R, 12888D2C, 12888D2CE, 12888D2CR, 12888D2C1, 12888D2C1R, 12888D2C1E, 12888D2C3, 12888D2C5, 12888D2C5E, ISK, ISL, ISX
12888D3 SERIES	12888D3, 12888D3E, 12888D3ER, 12888D3R, 12888D3A, 12888D3AR, 12888D3A0, 12888D3A1, 12888D3B, 12888D3BR, 12888D3BE, 12888D3B1, 12888D3B2, 12888D3B2E, 12888D3B2R, 12888D3C, 12888D3CE, 12888D3CR, 12888D3C1R, 12888D3C1, 12888D3C1E, 12888D3C3, 12888D3C5, 12888D3C5E
12888D5 SERIES	12888D5S, 12888D5B2, 12888D5C1, 12888D5C5, 12888D5C, 12888D5M0, 12888D5MC1, 12888D5MC
12888DM3 SERIES	12888DM3, 12888DM3A, 12888DM3B, 12888DM3B2, 12888DM3C, 12888DM3C1, 12888DM3C3, 12888DM3C5, 12888DM3AE, 12888DM3B2E, 12888DM3E, 12888DM3CE, 12888DM3C1E
12888DH SERIES	12888DH, 12888DH1, 12888DH2
12888DF SERIES	12888DF, 12888DF1, 12888DF2
12888MHH SERIES	12888MHH
12888MWD SERIES	12888MWD
12888MHD SERIES	12888MHD
12888R SERIES	12888R, 12888R1, 12888R2
12888P SERIES	12888P, 12888P0, 12888P1, 12888P2, 12888P4, 12888P5, 12888P1L
12888PT SERIES	12888PT, 12888PT0, 12888PT1, 12888PT2, 12888PT4, 12888PT5, 12888PTL

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THE 2ND. INDUSTRIAL AREA HEDONG JINXIA CHANGAN TOWN DONGGUAN CITY GUANG DONG CHINA.

Lot No:

12888PK SERIES	12888PK, 12888PK0, 12888PK1, 12888PK2, 12888PK4, 12888PK5, 12888PK8, 12888PKL
12888PKS SERIES	12888PKS, 12888PKS0, 12888PKS1, 12888PKS4, 12888PKSL
12888PS SERIES	12888PS1, 12888PS1A, 12888PS1B, 12888PS1G, 12888PS1I, 12888PS2, 12888PS2A, 12888PS2B, 12888PS2I, 12888PS3, 12888PS3A, 12888PS3B, 12888PS3G, 12888PS3I
12888BT SERIES	12888BT, 12888BT0, 12888BT1, 12888BT3, 12888BT4, 12888BT5, 12888BT8
12888MA SERIES	12888MA, 12888MA0, 12888MA1, 12888MA2, MK-1, 12888M
CLOCK SERIES	YT36, YT38, YT45, YT48, YT48A, YT48M, YT48M1, YT48M2, YT55, YT56, YT56A, YT56D, YT57M, YT64, YT65, YT65T, YT6565, YT68, YT68A, YT68D, YT69, YT70, YT70T, YT80, YT80A, YT80N, YT80H, YT82, YT82T, YT8464, YT85A, YT8565, YT90, YT90H, YT9974, YT115, YT120, YT120T, YT120A, YT130, YT150, YT160, YT200, YT230, YT300, YT430, YT500, YT90SD2A, YT90SD2B, YT90SD3A, YT90SD3B, YT90SD4, YT110SD2A, YT110SD3A, YT110SD3B, YT110SD4

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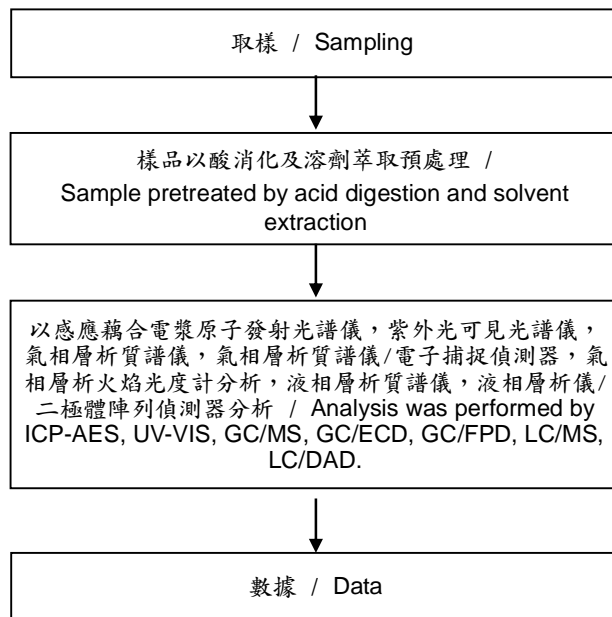
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廣東省東莞市長安鎮錦廈河東第二工業區

THE 2ND. INDUSTRIAL AREA HEDONG JINXIA CHANGAN TOWN DONGGUAN CITY GUANG DONG CHINA.

分析流程圖 / Analytical flow chart

- 1) 測試人員：張俊雄/曹嘉琪 / Name of the person who made measurement: Alex Chang/Anson Tsao
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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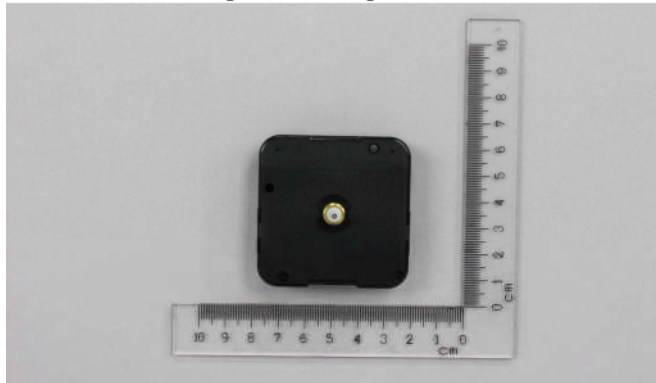
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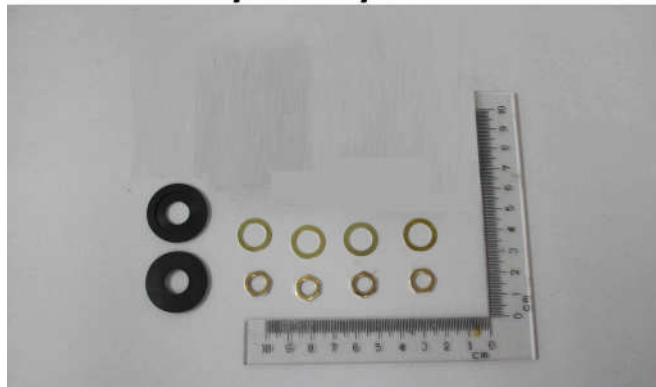
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2011/60009



KA/2012/60009



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【附錄 (Appendix) A】

分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義 (Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
致癌物質 類別1 (Carcinogen Category 1):	已知會對人類致癌的物質。有足夠的證據證明人體暴露於該物質和癌症發展之間有相互的關聯性 (Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer)。
致癌物質 類別 2 (Carcinogen Category 2):	應被視為可能對人體會導致致癌的物質。有足夠的證據強力推論人體暴露於該物質可能導致癌症發展，上述基於下列研究所得之結果 (Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer. Generally on the basis of): <ul style="list-style-type: none"> - 適當的長期動物實驗 (appropriate long-term animal studies)。 - 其他相關資訊 (other relevant information)。
導致基因突變 類別1 (Mutagen Category 1):	已知會對人類導致基因突變的物質。有足夠的證據證明人體暴露於該物質和遺傳基因損害之間有相互的關聯性 (Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage)。
導致基因突變 類別2 (Mutagen Category 2):	應被視為是否對人體會導致基因突變的物質。有足夠的證據強力推論人體暴露於該物質可能導致遺傳基因損害，上述基於下列研究所得之結果 (Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of): <ul style="list-style-type: none"> - 適當的長期動物實驗 (appropriate animal studies)。 - 其他相關資訊 (other relevant information)。
對生殖系統有害 類別1 (Toxic to Reproduction Category 1):	已知會損害人體生殖能力的物質。有足夠的證據證明人體暴露於該物質和生殖能力削弱之間有相互的關聯性 (Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility)。 已知會在人體引起毒性的物質。有足夠的證據證明人體暴露於該物質和其後產生之毒性對後代造成影響有相互之關聯性 (Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny)。

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分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義 (Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
<p>對生殖系統有害 類別2 (Toxic to Reproduction Category 2) :</p>	<p>應被視為可能會損害人體生殖能力的物質。有足夠的證據證明人體暴露於該物質可能導致損害人體生殖能力的有力推論，上述基於下列研究所得之結果 (Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of) :</p> <ul style="list-style-type: none"> - 缺少毒性作用的生殖能力削弱動物實驗中的明顯證據，或在同使用量下其他毒性作用但不是其他毒性作用的輔助非特定結果的生殖能力削弱證據 (clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects) - 其他相關資訊 (other relevant information) <p>應被視為可能在人體引起毒性發展的物質有足夠的證據提供人體暴露於該物質可能引起毒性發展的有力推論，整體而言是基於 (Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of) :</p> <ul style="list-style-type: none"> - 在適當動物實驗研究所進行缺乏顯著母體毒性徵象或在同使用量下其他毒性作用但不是其他毒性作用的輔助非特定結果的生殖能力削弱證據觀察，所得到之明顯結果 (clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects)。 - 其他相關資訊 (other relevant information)
<p>長期生物蓄積性及毒性物質 & 高持久性和高生物蓄積性物質 (PBT & vPvB):</p>	<p>長期生物蓄積性及毒性物質(PBT)或高持久性和高生物蓄積性物質(vPvB)造成化學安全管理上特別挑戰。這些物質在環境中無法用一個"安全"濃度建立足夠的可靠度。/ Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.</p>

** 報告結尾(End of Report) **

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