

Test Report

號碼(No.): CE/2020/12562 日期(Date): 2020/01/17

YHC-AW, YHC-AW#2, YHC-AW#3, YHC-AW#33, YHC-AW#2R, YHC-HA, YHC-HA#2, YHC-HA#3, YHC-HA#2R, YHC-HA6, YHC-HA6#2, YHC-HA6#3, YHC-HA6#2R, YHC-H8A, YHC-H8A#2, YHC-H8A#3, YHC-H8A#H, YHC-H8A#2R,

奕郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN 以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as): 送樣廠商(Sample Submitted By) : 奕郝精密股份有限公司(YI HAO PRECISION CO., LTD.) 樣品名稱(Sample Description) ART PAPER LABEL (銅版紙商標紙) : GHAL, GHAL90, KHAL(90), AL, (H)AL(C)#2, (H)AL(90)#3, (H)AL08, AL#33, 樣品型號(Style/Item No.) : (J)ALH, ALW(#2), AL(160)(W)(#2R), ALW162, AL160#3R, AL160H#77, ALW160(#2R), ALBW(#2R), ALW160#6R, AL160HW#6R, ALW75(#6R), ALW250, ALW251, AL250W, ALT75, ALT(100), ALY#2, ALW07#1, ALL#G, (R)(H)AL(C)(90)#2R, (H)AL(90)#3R, (H)AL(90)#6R, HAL9008, HAL(90)#77, HAL#27, HAL90#5R, HALL(#2), HAL160, HAL2590, HAL(2)(#B), HAL(T)902, AL2308, AL250(H)(W)#6R, ALSG, RAL#2, RALM160(#2R), RAL160M160, R2ALW160, R2AL250T75, RHAL(#2R), RHAL90#5, SALB, R2ALT75, R3ALT75,

YHC-H8A6, YHC-H8A6#2, YHC-H8A6#3, YHC-H8A6#2R. YHC-RAW#2 收件日期(Sample Receiving Date) 2020/01/09 測試期間(Testing Period) 2020/01/09 to 2020/01/17 ______

測試需求(Test Requested):

(1) 依據客戶指定,參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試編、鉛、汞、六價鉻、多溴聯苯、多溴聯苯 ■, DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, DEHP, DIBP contents in the submitted sample(s).)

(2) 其他測試項目請見下一頁. (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

(1)

結論(Conclusion) :

Troy Chang / Manager - Tec Signed for and behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei

根據客戶所提供的樣品,其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值 要求. (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)





測試報告 號碼(No.): CE/2020/12562 **Test Report**

日期(Date): 2020/01/17

頁數(Page): 2 of 14

奕郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

測試結果(Test Results)

白色標籤及其上膠(不含離型紙) (WHITE LABEL WITH ADHESIVE (EXCLUDING THE RELEASE 測試部位(PART NAME)No.1 : PAPER))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1	限值 (Limit)
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5 (2013),以感應耦合 電漿發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	n. d.	100
鉛 / Lead (Pb)	mg/kg		2	2.07	1000
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4:2013+ AMD1:2017, 以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321- 4:2013+ AMD1:2017 and performed by ICP-OES.	2	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321-7-2 (2017),以UV-VIS 檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.	8	n. d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg	參考IEC 62321-6 (2015),以氣相層析 /質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS.	5	n. d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.	-



Test Report

奕郝精密股份有限公司 YI HAO PRECISION CO., LTD.

南投市南崗工業區成功三路216號

NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

號碼(No.): CE/2020/12562

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1	限值 (Limit)
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	-	-	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg	1 F	5	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	參考IEC 62321-6 (2015),以氣相層析	5	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	/質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed	5	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	by GC/MS.	5	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg	by dermo.	5	n. d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n. d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	1	5	n. d.	-
鄰苯二甲酸丁苯甲酯 / BBP(Butyl Benzyl phthalate)(CAS No.: 85-68-7)	mg/kg	參考IEC 62321-8 (2017),以氣相層析 /質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.	1000
鄰苯二甲酸二丁酯 / DBP(Dibutyl phthalate)(CAS No.: 84-74-2)	mg/kg		50	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg		50	n. d.	1000
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg		50	n. d.	_
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	mg/kg		50	n. d.	_
鄰苯二甲酸二正辛酯 / DNOP(Di-n- octyl phthalate)(CAS No.: 117-84-0)	mg/kg		50	n. d.	_
鄰苯二甲酸二正己酯 / DNHP (Di-n- hexyl phthalate) (CAS No.: 84-75-3)	mg/kg		50	n. d.	_

日期(Date): 2020/01/17

頁數(Page): 3 of 14



Test Report

奕郝精密股份有限公司 YI HAO PRECISION CO., LTD.

南投市南崗工業區成功三路216號

NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

號碼(No.): CE/2020/12562

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1	限值 (Limit)
鄰苯二甲酸二正庚酯 / DNHP (Di-n- heptyl phthalate) (CAS No.: 3648-21- 3)	mg/kg	参考IEC 62321-8 (2017),以氣相層析 /質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.	_
鄰苯二甲酸二 (2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	mg/kg		50	n. d.	-
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))	mg/kg	參考IEC 62321 (2008),以氣相層析/ 質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.	_
鹵素 / Halogen					
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	参考BS EN 14582 (2016),以離子層析 儀分析. / With reference to BS EN 14582 (2016). Analysis was performed by IC.	50	n. d.	_
鹵素(氯)/ Halogen-Chlorine(C1) (CAS No.: 22537-15-1)	mg/kg		50	346	-
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n. d.	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n. d.	_
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考CEN/TS 15968 (2010),以液相層 析/質譜儀檢測. / With reference to CEN/TS 15968 (2010). Analysis was	0.01	n. d.	_
全氟辛酸 / PFOA(CAS No.: 335-67-1)	mg/kg	performed by LC/MS.	0.01	n. d.	_
雙酚 A / Bisphenol A (CAS No.: 80- 05-7)	mg/kg	参考RSTS-CHEM-239-1 (2016),以超高 效能液相層析串聯質譜儀檢測. / With reference to RSTS-CHEM-239-1 (2016). Analysis was performed by UPLC-MSMS.	1	n. d.	_

日期(Date): 2020/01/17

頁數(Page): 4 of 14



Test Report

奕郝精密股份有限公司 YI HAO PRECISION CO., LTD.

南投市南崗工業區成功三路216號

NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

號碼(No.): CE/2020/12562

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1	限值 (Limit)
聚氯乙烯 / Polyvinyl chloride (PVC)	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	_	Negative	-
溶出砷 / Soluble Arsenic (As)	mg/kg	参考ASTM F963 (2017) Clause 8.3, 以感應耦合電漿發射光譜儀檢測. / With reference to ASTM F963 (2017) Clause 8.3. Analysis was performed by ICP-OES.	2.5	n. d.	-
溶出鋇 / Soluble Barium (Ba)	mg/kg		10	n. d.	-
溶出鎘 / Soluble Cadmium (Cd)	mg/kg		5	n. d.	-
溶出鉻 / Soluble Chromium (Cr)	mg/kg		5	n. d.	-
溶出汞 / Soluble Mercury (Hg)	mg/kg		5	n. d.	-
溶出鉛 / Soluble Lead (Pb)	mg/kg		5	n. d.	-
溶出銻 / Soluble Antimony (Sb)	mg/kg		5	n. d.	-
溶出硒 / Soluble Selenium (Se)	mg/kg		5	n. d.	_

日期(Date): 2020/01/17

頁數(Page): 5 of 14

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出)
- 4. "-" = Not Regulated (無規格值)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 2019/1021

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗 層材料中不得超過1µg/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^{2}$.)



測試報告 號碼(No.): CE/2020/12562 **Test Report**

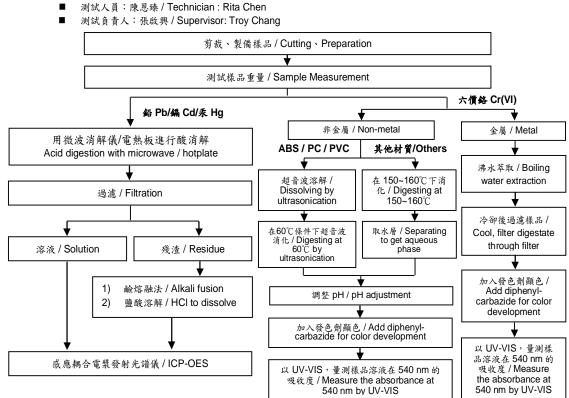
日期(Date): 2020/01/17

頁數(Page): 6 of 14

奕郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)





測試報告 Test Report ^{號碼(No.)}: CE/2020/12562

日期(Date): 2020/01/17

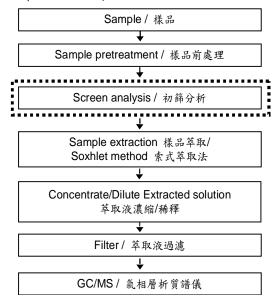
頁數(Page): 7 of 14

变郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process →→ 選擇性篩檢程序 / Optional screen process ••••••• 確認程序 / Confirmation process → • → •





測試報告 **Test Report**

號碼(No.): CE/2020/12562

日期(Date): 2020/01/17

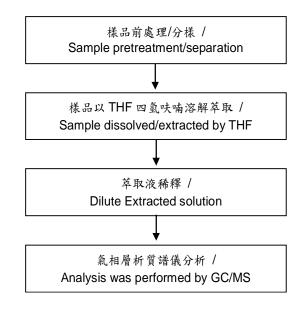
頁數(Page): 8 of 14

奕郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang

【测試方法/Test method: IEC 62321-8】





測試報告 Test Report^{號碼(No.)}

號碼(No.): CE/2020/12562

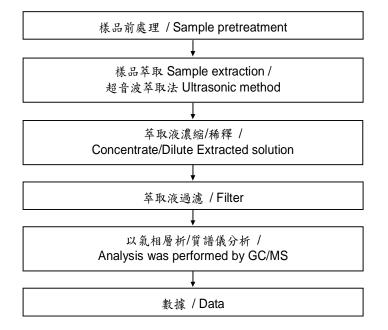
日期(Date): 2020/01/17

頁數(Page): 9 of 14

变郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

奕郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

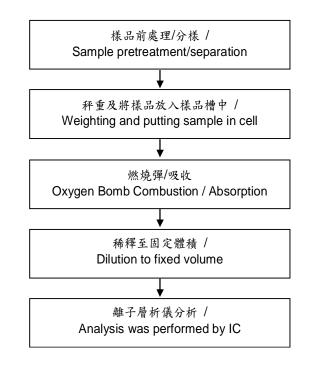
號碼(No.): CE/2020/12562

鹵素分析流程圖 / Analytical flow chart - Halogen

日期(Date): 2020/01/17

頁數(Page): 10 of 14

- 測試人員:陳恩臻 / Technician: Rita Chen
- 測試負責人:張啟興 / Supervisor: Troy Chang





測試報告 Test Report^{號碼(No.}

號碼(No.): CE/2020/12562

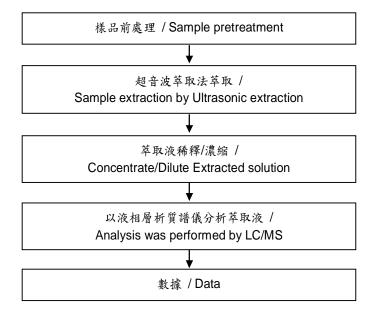
日期(Date): 2020/01/17

頁數(Page): 11 of 14

变郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員: 涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang





測試報告 Test Report^{號碼(No.)}

號碼(No.): CE/2020/12562

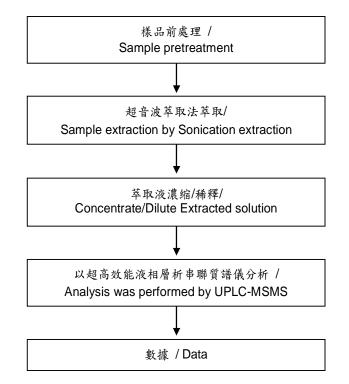
日期(Date): 2020/01/17

頁數(Page): 12 of 14

变郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

雙酚A分析流程圖 / Analytical flow chart - Bisphenol A

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang





測試報告 Test Report ^{號碼(No.)}:

號碼(No.): CE/2020/12562

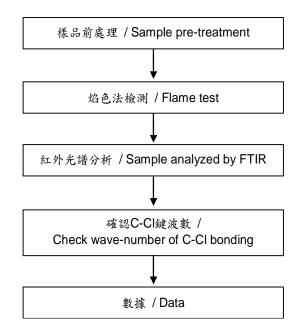
日期(Date): 2020/01/17

頁數(Page): 13 of 14

变郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com/en/terms-and-conditions/terms-e-document, at the limit of itability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

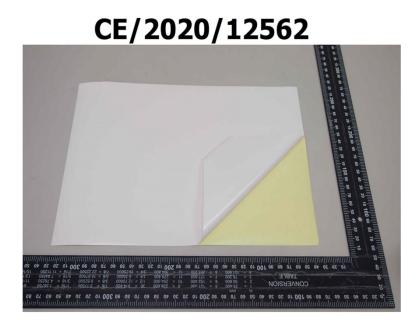


測試報告 號碼(No.) : CE/2020/12562 日期(Date) : 2020/01/17 **Test Report**

頁數(Page): 14 of 14

奕郝精密股份有限公司 YI HAO PRECISION CO., LTD. 南投市南崗工業區成功三路216號 NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN

> * 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.)



** 報告結尾 (End of Report) **