



測試報告

Test Report

號碼(No.): ETR26100420

日期(Date): 15-Jan-2026

頁數(Page): 1 of 9

阿爾發金屬化工股份有限公司 (ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED)

桃園市蘆竹區南山路二段12巷20號 (NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 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 the applicant as) :

送樣廠商(Sample Submitted By) : 阿爾發金屬化工股份有限公司 (ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED)

樣品名稱(Sample Name) : OM5100 series Solder Paste (Sn5/Pb92.5/Ag2.5 OM5100 、 Sn63/Pb37 OM5100 、 Sn62/Pb36/Ag2 OM5100 、 NTM4S OM5100)

批號(Lot No.) : 50601602T

收件日(Sample Receiving Date) : 05-Jan-2026

測試期間(Testing Period) : 05-Jan-2026 to 15-Jan-2026

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測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, 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, BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) 依據客戶指定，測試鹵素-氟、氯、溴、碘。 (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.)

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


Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 12057ACA

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, 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

Test Report

號碼(No.): ETR26100420 日期(Date): 15-Jan-2026 頁數(Page): 2 of 9

阿爾發金屬化工股份有限公司 (ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED)
桃園市蘆竹區南山路二段12巷20號 (NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 灰色膏狀 (乾基) (GRAY PASTE (DRY BASE))

No.2 : 灰色粉末 (GRAY POWDER)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	
				No.1	No.2
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	-	---	928700(*)
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	---
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	---
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	---
三溴聯苯 (Tribromobiphenyl)		mg/kg	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.	---
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	---

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, 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

Test Report

號碼(No.): ETR26100420

日期(Date): 15-Jan-2026

頁數(Page): 3 of 9

阿爾發金屬化工股份有限公司 (ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED)
桃園市蘆竹區南山路二段12巷20號 (NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	
				No.1	No.2
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015 · 以氣相層析儀/ 質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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	5	n.d.	---
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	---
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	---
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	---
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	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	5	n.d.	---
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	---
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	參考IEC 62321-8: 2017 · 以氣相層析儀/ 質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	---
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	---
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di- (2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	---
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	---
氟 (F) (Fluorine (F)) (CAS No.: 14762- 94-8)	參考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	---
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	n.d.	---
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.	---
碘 (I) (Iodine (I)) (CAS No.: 14362-44- 8)		mg/kg	50	n.d.	---

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, 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

Test Report

號碼(No.): ETR26100420

日期(Date): 15-Jan-2026

頁數(Page): 4 of 9

阿爾發金屬化工股份有限公司 (ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED)

桃園市蘆竹區南山路二段12巷20號 (NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN)

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出) ; 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. "---" = Not Conducted (未測試項目)
6. For No.1: 樣品在250 °C 持溫 10分鐘乾燥後測試。(The sample(s) was/were tested after drying at 250 °C for 10 minutes.)
7. (*) : 此結果是以100%扣除其餘元素含量而得。(The test result of balance was calculated by subtracting positive results of other elements from 100%.)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, 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

Test Report

號碼(No.): ETR26100420

日期(Date): 15-Jan-2026

頁數(Page): 5 of 9

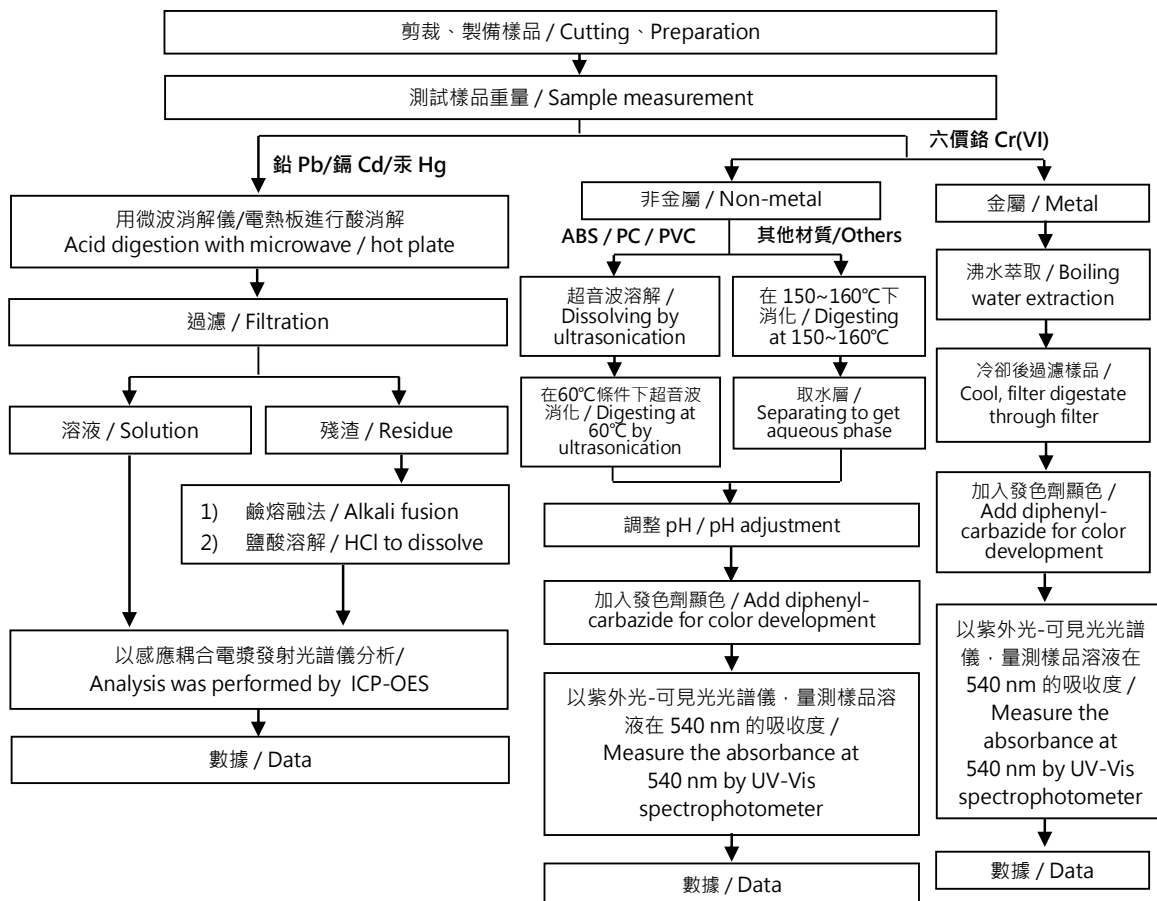
阿爾發金屬化工股份有限公司 (ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED)

桃園市蘆竹區南山路二段12巷20號 (NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 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)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, 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

Test Report

號碼(No.): ETR26100420

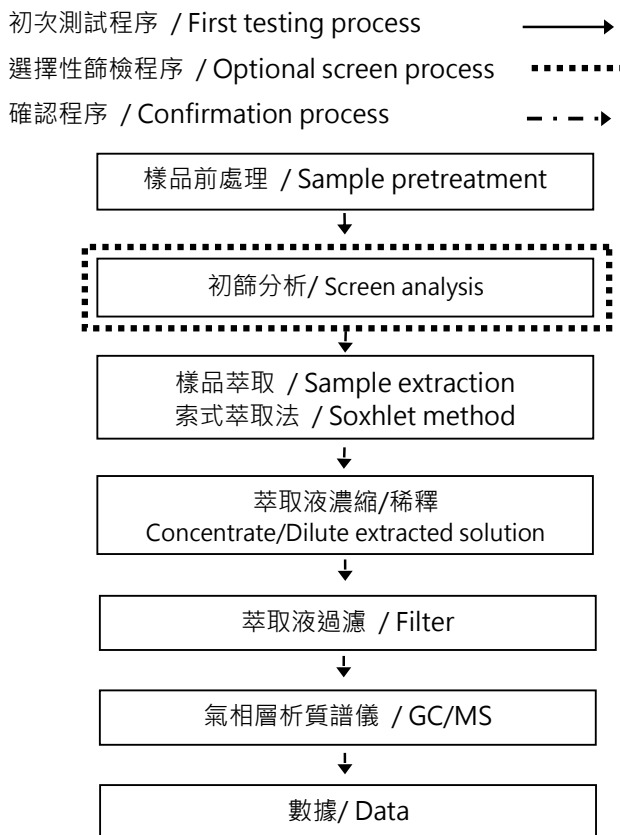
日期(Date): 15-Jan-2026

頁數(Page): 6 of 9

阿爾發金屬化工股份有限公司 (ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED)

桃園市蘆竹區南山路二段12巷20號 (NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN)

多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, 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

Test Report

號碼(No.): ETR26100420

日期(Date): 15-Jan-2026

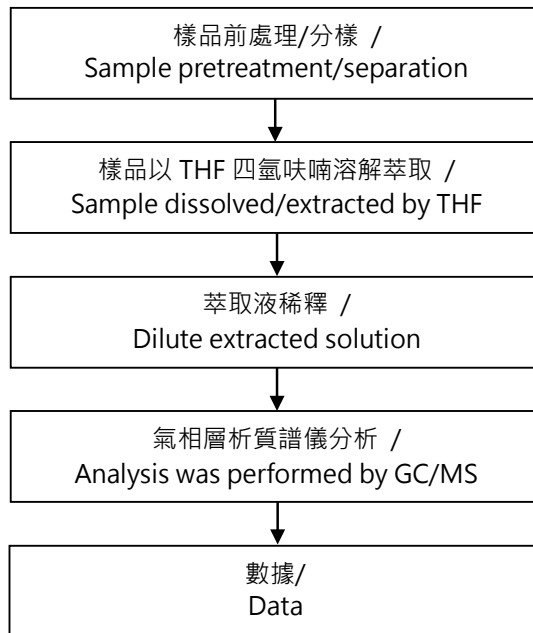
頁數(Page): 7 of 9

阿爾發金屬化工股份有限公司 (ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED)

桃園市蘆竹區南山路二段12巷20號 (NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN)

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

【測試方法/Test method: IEC 62321-8】



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, 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

Test Report

號碼(No.): ETR26100420

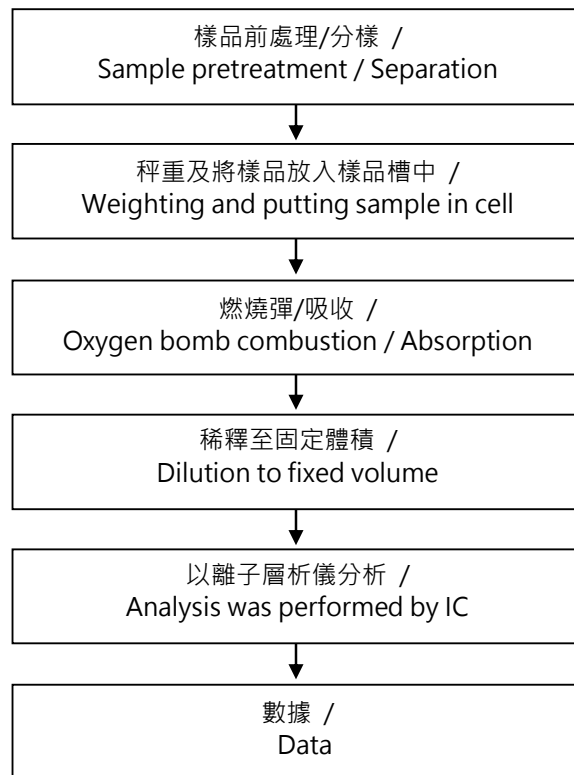
日期(Date): 15-Jan-2026

頁數(Page): 8 of 9

阿爾發金屬化工股份有限公司 (ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED)

桃園市蘆竹區南山路二段12巷20號 (NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN)

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, 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

Test Report

號碼(No.): ETR26100420

日期(Date): 15-Jan-2026

頁數(Page): 9 of 9

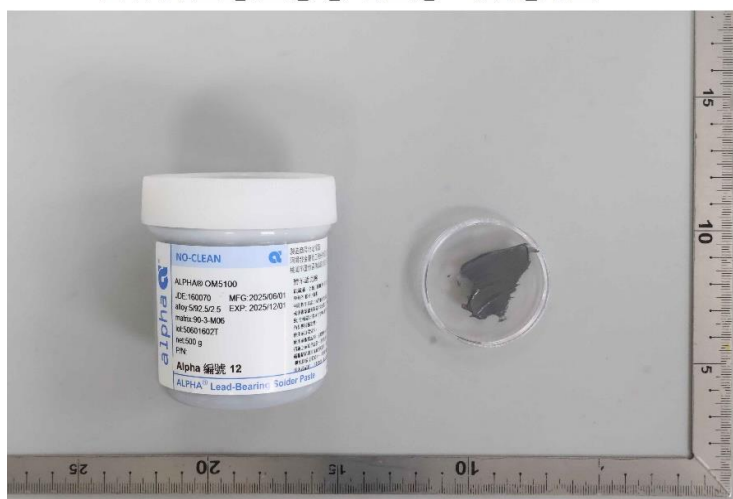
阿爾發金屬化工股份有限公司 (ALPHA ASSEMBLY SOLUTIONS (TAIWAN) LIMITED)

桃園市蘆竹區南山路二段12巷20號 (NO. 20, LANE 12, SEC. 2, NAN-SHAN RD., LUZHU DISTRICT, TAOYUAN CITY, 33860 TAIWAN)

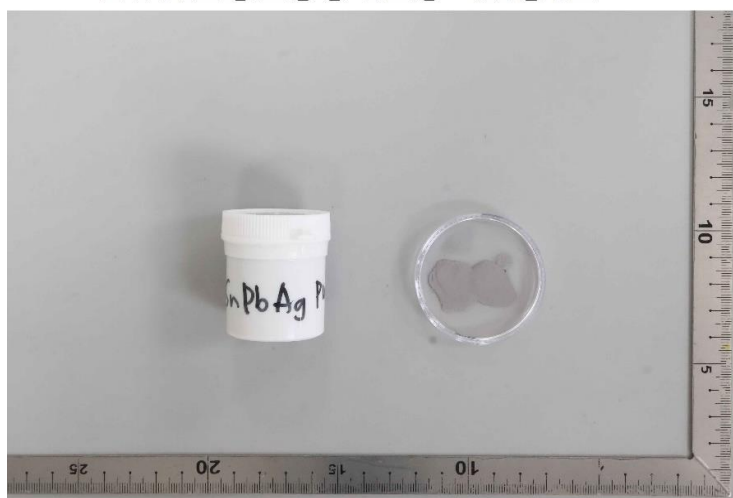
* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR26100420 NO.1



ETR26100420 NO.2



** 報告結尾 (End of Report) **

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, 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.