



SYNTON-TECH CORPORATION

CHIP BEAD

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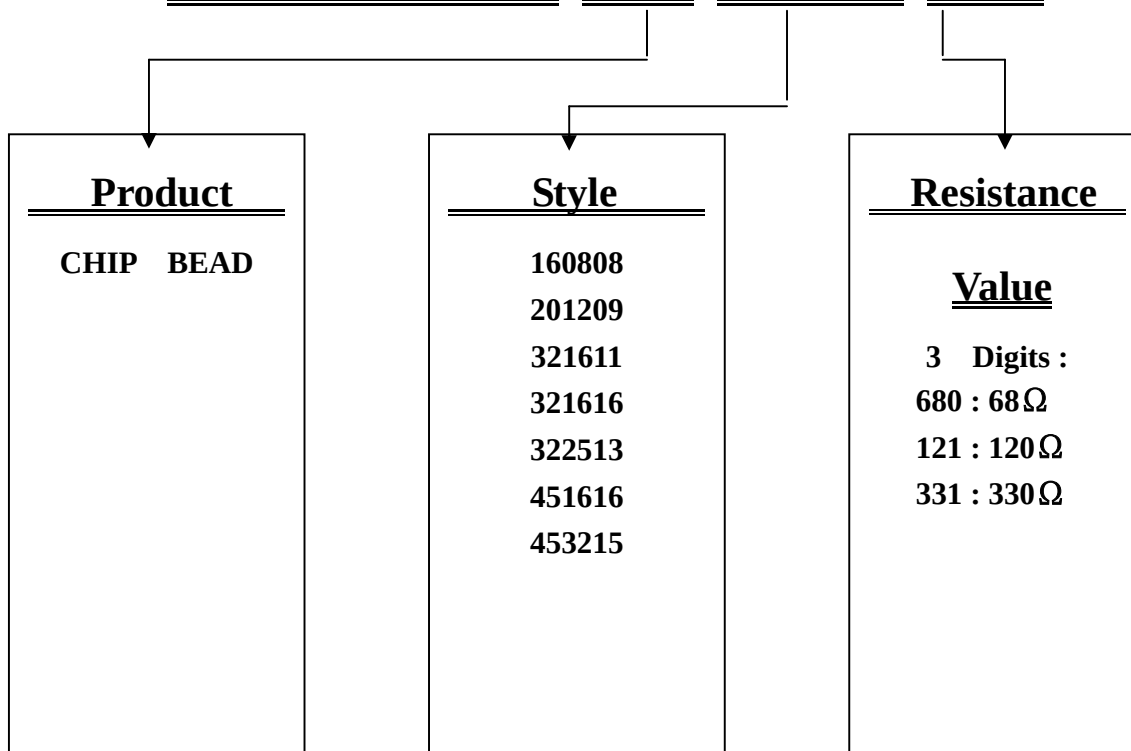
1. FEATURES

These products cover a wide range of impedance characteristics and provide a powerful meanings of attenuating the electromagnetic interference. The parts not specified here also can be designed according the customer's requirements for larger currents.

2. EXPLANATIONS OF ORDERING CODE

Example : DESCRIPTION : CB 201209 25% 120Ω

SYNTON CODE : CB 201209 121



APPROVED	CHECKED	DESIGNED	REMARK	DOCUMENT NO.
Carol	May	Chen	4/23 RE:P4	0201010082

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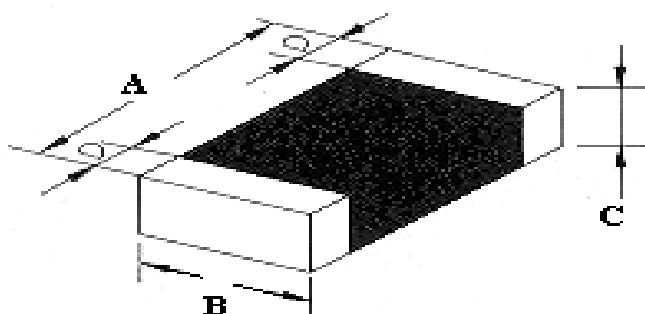


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3. DIMENSIONS



Unit: m/m

TYPE	A	B	C	D
CB160808	1.6 ±0.25	0.8 ±0.2	0.8 ±0.15	0.3 ± 0.2
CB201209	2.0 ±0.25	1.2 ±0.2	0.9 ±0.20	0.5 ± 0.3
CB321611	3.2 ±0.25	1.6 ±0.2	1.1±0.3	0.5 ± 0.3
CB321616	3.2 ±0.25	1.6 ±0.2	1.6 ±0.3	0.5 ± 0.3
CB322513	3.2 ±0.25	2.5 ±0.3	1.3±0.3	0.5 ± 0.3
CB451616	4.5 ±0.25	1.6 ±0.3	1.6±0.3	0.5 ± 0.3
CB453215	4.5 ±0.25	3.2 ±0.3	1.5±0.3	0.5 ± 0.3

Figure1

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CB160808

Part No.	Impedance	DCR	IDC
	ohm $\pm 25\%$	ohm(max)	mA(max)
CB160808-680	68	0.15	400
CB160808-121	120	0.15	400
CB160808-221	220	0.20	400
CB160808-301	300	0.30	400
CB160808-601	600	0.35	400
CB160808-102	1000	0.55	300

Figure2

CB201209

Part No.	Impedance	DCR	IDC
	ohm $\pm 25\%$	ohm(max)	mA(max)
CB201209-070	7	0.10	300
CB201209-110	11	0.10	300
CB201209-320	32	0.10	300
CB201209-600	60	0.15	300
CB201209-800	80	0.15	300
CB201209-121	120	0.20	300
CB201209-151	150	0.20	300
CB201209-301	300	0.25	300
CB201209-401	400	0.30	300
CB201209-601	600	0.35	300

Figure3



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CB3216xx

Part No.	Impedance	DCR	IDC
	ohm $\pm 25\%$	ohm(max)	mA(max)
CB321611-190	19	0.10	800
CB321611-310	31	0.10	800
CB321611-260	26	0.10	800
CB321611-420	42	0.10	800
CB321616-700	70	0.15	500
CB321611-800	80	0.30	400
CB321611-151	150	0.20	450
CB321611-301	300	0.20	350
CB321611-601	600	0.25	350
CB321611-801	800	0.30	350
CB321611-152	1500 (50MHz)	0.40	350
CB321611-202	2000 (50MHz)	0.40	350

Figure4

CB322513

Part No.	Impedance	DCR	IDC
	ohm $\pm 25\%$	ohm(max)	mA(max)
CB322513-310	31	0.10	500
CB322513-600	60	0.30	400

Figure5



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CB451616

Part No.	Impedance	DCR	IDC
	ohm $\pm 25\%$	ohm(max)	mA(max)
CB451616-800	80	0.30	400

Figure6

CB453215

Part No.	Impedance	DCR	IDC
	ohm $\pm 25\%$	ohm(max)	mA(max)
CB453215-700	70	0.20	500
CB453215-121	120	0.20	500
CB453215-151	150	0.20	500

Figure5

**SYNTON-TECH CORPORATION****CHIP BEAD**

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SGS**測試報告****Test Report**

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欣統股份有限公司 / SYNTON-TECH CORPORATION

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(廣東省東莞市大朗鎮水口管理區 / SHUI KOU INDUSTRIAL ZONE, DA LANG, DONG GUAN, 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) : CHIP BEAD & CHIP INDUCTOR
樣品型號(Style/Item No.) : CB TYPE & CI TYPE
收件日期(Sample Receiving Date) : 2009/07/01
測試期間(Testing Period) : 2009/07/01 TO 2009/07/08

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

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 感應器 (INDUCTOR)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) NO.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	45
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用UV-VIS檢測。 / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
銻 / Antimony (Sb)	mg/kg	參考US EPA 3050B方法, 用感應耦合電漿原子發射光譜儀檢測銻含量。 / With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) PFOS — Acid PFOS — Metal Salt PFOS — Amide	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛烷磺酸含量。 / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 000335-67-1)	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛酸(銨)含量。 / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) NO. 1
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測, / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.
鹵素 / Halogen				
鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析, / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析, / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) NO. 1
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析。 / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析。 / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

備註(Note) :

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)

PFOS參考資訊(Reference Information) : 指令 2006/122/EC (Directive 2006/122/EC)

- (1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%。
(May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.)
- (2) 該物質不可置於市場上的半成品或商品或其物件; 假若零件上明顯地具有PFOS並參照結構上及微細構造上計算PFOS重量濃度等於或大於0.1%, 而紡織品或其他覆蓋物質, 如果PFOS在覆蓋物質中含量等於或大於1µg/m²。
(May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.)

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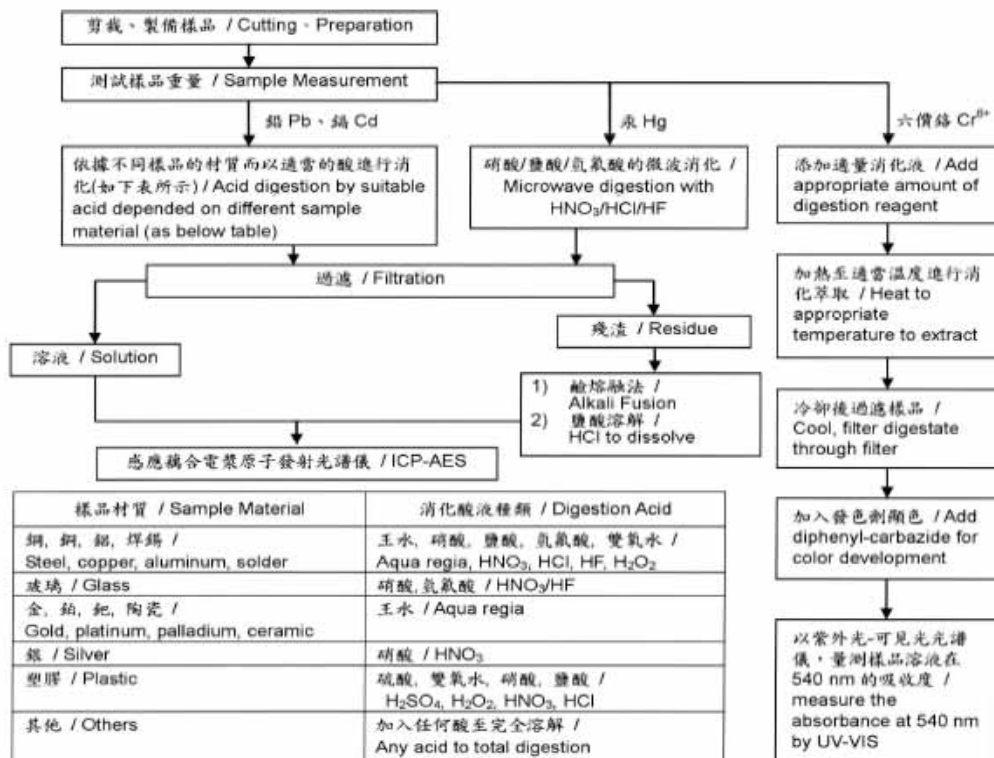
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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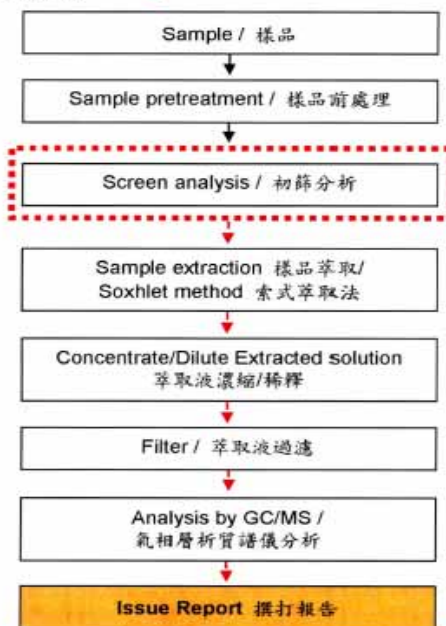
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
2) 測試負責人: 陳新智 / Name of the person in charge of measurement: Shinjyh Chen

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 - - - →



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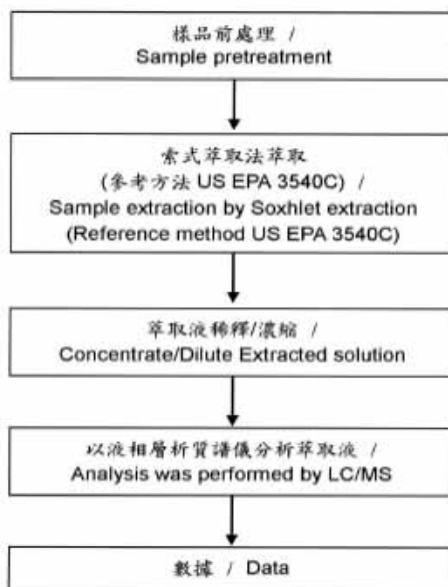
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全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

- 1) 測試人員：劉家瑛 / Name of the person who made measurement: Carrie Liu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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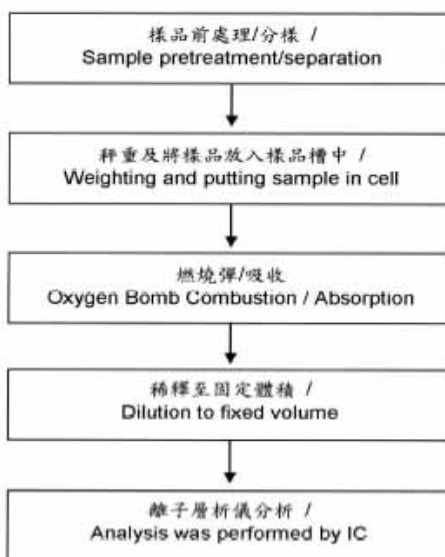
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**鹵素分析流程圖 / Analytical flow chart of halogen content**

- 1) 測試人員: 陳立倫 / Name of the person who made measurement: Alan Chen
2) 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang



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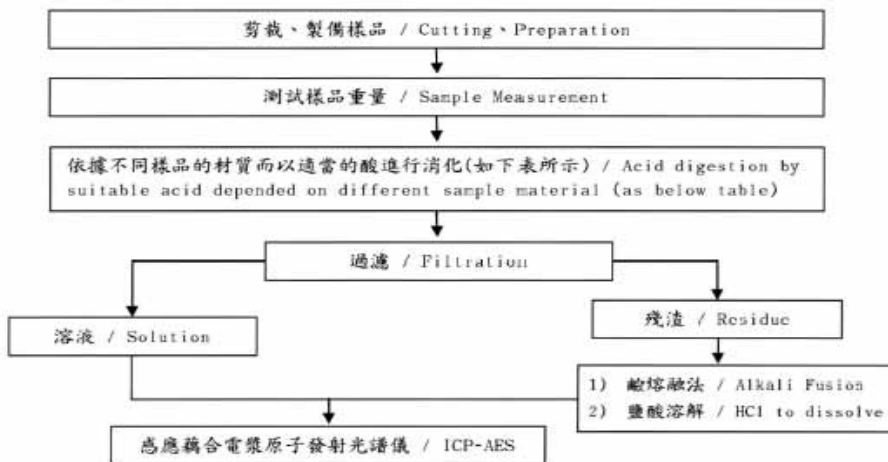
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸, 氫氟酸 / HNO ₃ /HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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