承認書目錄

Catalog of Specification

- **承認書版面**
  Specification Table ……**Page 1**

- **承認書內容**
  Specification of contents

  • 編碼原則
  P/N Explanation ……Page 2

  • 成型圖及尺寸
  Forming&Forming Size ……Page 3-4

- **CTI 測試報告**
  CTI Report ……**Page5-9**

承認書編號 APPROVAL SHEET NO:	D-Z-JU-B3-01

承認書 APPROVAL SHEET

產品名稱 NAME OF PRODUCTION	跳線&跳線帶狀 Jumper Wire & Jumper Wire Type
產品規格 SPECIFICATION OF PRODUCTION	JU 系列 3KJ00005010(K0495)

有關產品構造、尺寸、性能、標識及測試標準均詳實記載於內並附樣品

敬請惠予檢測及查閱，並予以承認

是禱

蒙予承認，請簽章確認，並請發還一份回敝公司

ABOUT CONFORMATION,DIMENSION,CAPABILITY,CAPTION AND TEST STANDARD OF PRODUCT WERE WRITTEN ON,ENCLOSED THE SAMPLES,PLEASE CHECK AND REFER,AND WERE ADMITTED IF YOU APPROVAL,PLEASE SIGN AND CONFIRMATION,RETURN ONE COPY FOR OUR COMPANY.

THANKS!

版次 REV	B3	審 核 AUDITING	複 核 CHECK	製 作 PRODUCER
初版日期 ORIGIN REV DATE	2006.04.03	莊文聰	吳文艷	鄧燕

彩智企業股份有限公司 彩智(深圳)電子有限公司 專用章 彩智(蘇州)電子有限公司 認可發書

公司名稱 Company Name	彩源企業股份有限公司 TZAI YUAN ENTERPRISE CO., LTD.				
品　名 Product Name	跳線&跳線帶狀 **Jumper Wire & Jumper Wire Type**				
版　本 **Version**	**B3 版**	制定日期 **Enactment Date**	**2006 年 04 月 03 日** **Apr.03,2006**	頁數 **Page**	**3-1**

1. 一般事項　General

1.1 適用 Scope

本承認書適用於 彩源企業股份有限公司 製造之[跳線&跳線帶狀]。

This specification is available for Jumper Wire & Jumper Wire Type manufactured by TZAI YUAN ENTERPRISE CO., LTD.

1.2 材質　Material

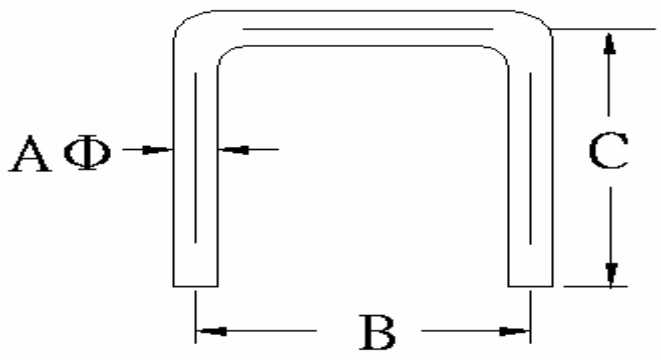
銅線:電氣純錫電鍍軟銅線。

Copper wire:Soldered or tinned annealed copper wire

2. 特性　Characteristics

項 目 Item	規格值 Performance	試驗方法 Test methods
耐熱性 Heat Resistance Test	表面不能變色或錫發生溶解。 Surface coloury,No rustiness,and can't changed black phenomena etc, and the solder can't be dissolved.	170±5℃,半小時加熱。 170±5℃, half an hour.
焊錫附著性 Solderability	導線至少 95%以上新錫覆蓋。 Covered with new solder by 95% at least.	焊錫溫度：260±5℃。 浸錫時間：10±1.0 秒。 Test temperature of solder: 260±5℃ Dipping time in solder: 10±1.0 s
保存條件 Preservation condition	溫度:25±10℃，濕度 60±20 RH% 保存期限：3 個月 Temperature：25±10℃， Humidity：60±20 RH% Preservation time： Three month	

3. 外形寸法　External dimensions

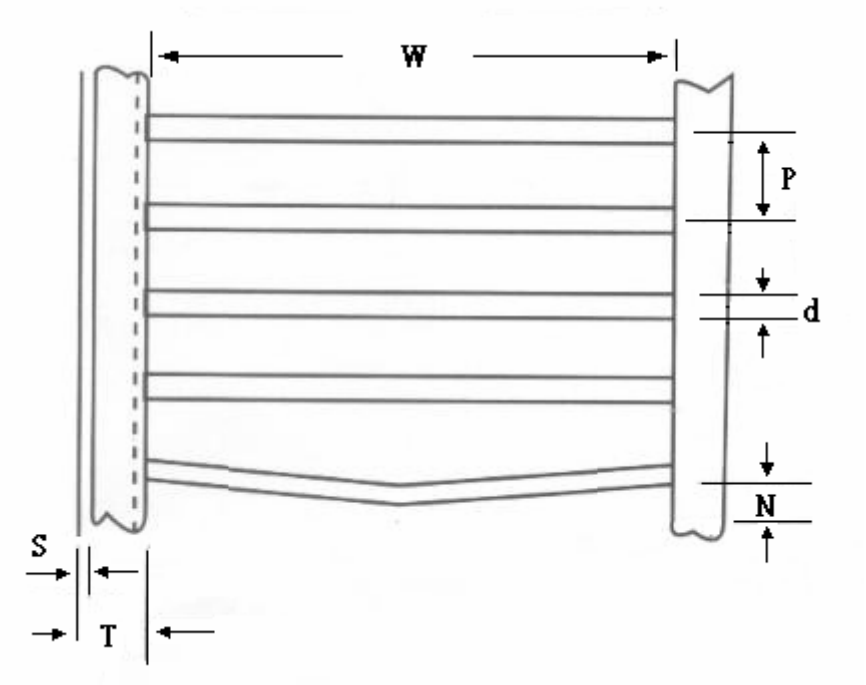


單位:mm

Unit:mm

A±0.1m/m	**B±0.5m/m**	**C**
0.6Φ	2.5m/m	8.0±0.5m/m
0.6Φ,0.8Φ	5m/m	4.0±0.5m/m
0.6Φ,0.8Φ	5m/m	8.0±0.5m/m
1.0Φ	5m/m	10±1m/m
0.6Φ,0.8Φ	7.5m/m	4.0±0.5m/m
0.6Φ,0.8Φ	7.5m/m	8.0±0.5m/m
1.0Φ	7.5m/m	10±1m/m
0.6Φ,0.8Φ	10m/m	4.0±0.5m/m
0.6Φ,0.8Φ	10m/m	8.0±0.5m/m
1.0Φ	10m/m	10±1m/m
0.6Φ,0.8Φ	12.5m/m	8.0±0.5m/m
1.0Φ	12.5m/m	10±1m/m
0.6Φ,0.8Φ	15m/m	8.0±0.5m/m
1.0Φ	15m/m	10±1m/m
0.6Φ,0.8Φ	17.5m/m	8.0±0.5m/m
1.0Φ	17.5m/m	10±1m/m
0.6Φ,0.8Φ	20m/m	8.0±0.5m/m
1.0Φ	20m/m	10±1m/m
0.6Φ,0.8Φ	22.5m/m	8.0±0.5m/m
1.0Φ	22.5m/m	10±1m/m
0.6Φ	30m/m	4.0±0.5m/m

公司名稱 Company Name	彩源企業股份有限公司 TZAI YUAN ENTERPRISE CO., LTD.				
品　名 Product Name	跳線&跳線帶狀 **Jumper Wire & Jumper Wire Type**				
版　本 **Version**	**B3 版**	制定日期 **Enactment Date**	**2006 年 04 月 03 日** **Apr.03,2006**	頁數 **Page**	**3-3**



型式 STYLE	尺寸　DIMENSIONS: mm						數量 Quantity (pcs)
	W	P	T	d	N	S	
T52m/m	52±1	5±1	6±1	0. 6Φ 0. 8Φ　±0.1 1. 0Φ	1Max	0.5Max	5000
T26m/m	26±1	5±1	6±1	0.6Φ 0.8Φ　±0.1	1Max	0.5Max	10000

彩源企業股份有限公司
TZAI YUAN ENTERPRISE CO., LTD.

RESISTORS 電阻器 ISO 9001:2000 ISO 14001:2004 認證合格製造廠

- 晶片電阻器（貼片電阻）
  CHIP RESISTOR
- 低阻值電阻器（銅錳線＆銅鎳線）
  MILLIOHM RESISTOR (COPPER-MANGANESE WIRE&COPPER-NICKEL WIRE)
- 碳素皮膜固定電阻器
  CARBON FILM FIXED RESISTOR
- 金屬皮膜固定電阻器（精密電阻）
  METAL FILM FIXED RESISTOR
- 不燃性金屬氧化皮膜固定電阻器
  METAL OXIDE FILM FIXED RESISTOR
- 不燃性金屬氧化皮膜固定電阻器（直立行）
  METAL OXIDE FILM FIXED RESISTOR(VERTICAL TYPE)
- 線繞電阻器
  WIREWOUND RESISTOR
- 保險絲型電阻器
  FUSIBLE METAL FILM RESISTOR
- 繞線型保險絲電阻器
  WIREWOUND FUSIBLE RESISTOR
- 高壓金屬玻璃釉電阻器
  METAL GLAZE (HIGH VOLTAGE) RESISTOR
- 耐衝擊碳素皮膜固定電阻器
  ANTI-SURGE CARBON FILM FIXED RESISTOR
- 耐高壓衝擊固定電阻器
  CERAMIC RESISTOR FOR HIGH VOLTAGE SURGE CURRENT
- 實芯固定電阻器
  CARBON COMPOSITION FIXED RESISTOR
- 水泥電阻器
  CEMENT TYPE RESISTOR
- 金屬板水泥電阻器
  METAL PLATE CEMENT RESISTOR
- 溫度保險絲水泥電阻器
  CEMENT RESISTOR BUILT-IN THERMAL FUSE
- 排列電阻器
  SIP RESISTOR NETWORKS
- 高壓用厚膜電阻器
  THICK FILM RESISTOR FOR HIGH VOLTAGE
- 高壓棒狀玻璃釉電阻器
  STICK TYPE HIGH VOLTAGE GLAZE RESISTOR
- 電力型（繞線＆波浪繞線）電阻器
  POWER (WIREWOUND&RIBBON WIREWOUND) RESISTOR
- 鋁殼線繞電阻器
  ALUMINUM CASE WIREWOUND RESISTOR
- 大功率鋁殼電阻器
  LARGE CAPACITY METAL CASE WIREWOUND RESISTOR
- 跳線＆跳線帶狀
  JUMPER WIRE
- 碳素皮膜固定電阻器（無銅線電阻）
  MELF TYPE CARBON FILM RESISTOR
- 金屬皮膜固定電阻器（無銅線電阻）
  MELF TYPE METAL FILM RESISTOR
- X2安規電容
  METALLIZED POLYPROPYLENE FILM CAPACITOR(Class X2)

營業據點


台北總公司


深圳廠 Shenzhen


蘇州廠 Suzhou


總公司辦公室


常熟晶片廠 Suzhou



製造流程 Manufacture flow


切割工程站 Cutting


塗裝工程站 Coating


晶片雷射工程站 Laser trim


品管實驗站 Q.C.LAB.


焊接工程站 Welding


晶片印刷工程站 SMD printing


測包工程站 Testing & packing



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常熟工廠：蘇州彩源電子科技有限公司
中國江蘇省常熟市東南開發區金都路1號
電話:886-512-52358188 傳真:86-512-52358199

深圳工廠：彩智電子（深圳）有限公司
中國廣東省深圳市寶安區龍華鎮大浪村華發路(華悅路150號)
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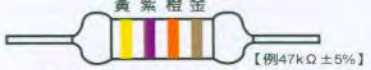
蘇州工廠：彩智電子（蘇州）有限公司
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電話:86-512-63271895，86-512-63270896
傳真:86-512-63270893

公司網址：http://www.tzaiyuan.com

色碼識別表

BVQI(FRANCE)ISO-9001:2000
WIT ISO 14001:2004
COLOR CODE

碳膜電阻器 E-24 SERIES



1st, 2nd band:digit
3rd band:multiplier
4th band:tolerance

金屬氧化皮膜電阻器E-24



1st, 2nd 3rd:digit
4th band:multiplier
5th band:tolerance

金屬皮膜電阻器E-96

顏色	COLOR	NO.1	NO.2	NO.3	NO.4	NO.1	NO.2	NO.3	NO.4	NO.1	NO.2	NO.3	NO.4	NO.5
黑	BLACK	0	0	10		0	0	10		0	0	0	10	
棕	BROWN	1	1	10^1	±1%	1	1	10^1	±1%	1	1	1	10^1	±1%
紅	RED	2	2	10^2	±2%	2	2	10^2	±2%	2	2	2	10^2	±2%
橙	ORANGE	3	3	10^3		3	3	10^3		3	3	3	10^3	
黃	YELLOW	4	4	10^4		4	4	10^4		4	4	4	10^4	
綠	GREEN	5	5	10^5		5	5	10^5		5	5	5	10^5	±0.5%
藍	BLUE	6	6	10^6		6	6	10^6		6	6	6	10^6	±0.25%
紫	VIOLET	7	7	10^7		7	7	10^7		7	7	7	10^7	±0.1%
灰	GRAY	8	8	10^8		8	8	10^8		8	8	8	10^8	
白	WHITE	9	9	10^9		9	9	10^9		9	9	9	10^9	
金	GOLD			10^{-1}	±5%			10^{-1}	±5%				10^{-1}	±5%
銀	SILVER			10^{-2}	±10%			10^{-2}	±10%				10^{-2}	±10%

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CHINA SHENZHEN FACTORY:
Hua Fa Road, Ta-Lang Village, Long Hua Town, Bao An District, Shenzhen, Guang Dong, China

CHINA SUZHOU FACTORY:
Lu Xu Industrial Park, Lin Hu Economic & Technology Development District. Lu Xu Town. Wu Jiang City. Jiang Su Province, China

CHINA SUZHOU FACTORY:
No1, Jindu Road, Southeast Economy Development Zone. Changshu City. Jiang Su Province, China

检测报告 (SVHC)

编号：SHAEC24008970618　　**日期：**2024 年 05 月 21 日　　

客户名称：　彩源企業股份有限公司
彩智電子科技(江西)有限公司/
彩智電子(蘇州)有限公司/
彩智電子(深圳)有限公司/
蘇州彩源電子科技有限公司/

客户地址：　新北市三重區光復路一段 61 巷 27 號 13 樓之 2,3,4/
中國江西省鷹潭市余江區工業園虎山片區/
中國江蘇省蘇州市吳江區汾湖高新技術產業開發區浦港南路東側 2 號廠房/
中國广东省深圳市光明新區公明街道玉律村玉泉東路 18-1 號/
中國江蘇省常熟市東南經濟開發區金都路 1 號

样品名称：　跳線&跳線帶狀&引腳 &鐵氟龍跳線

型号：　JU&PIN

以上样品及信息由客户提供。

SGS 工作编号：　TIC1020240422152220RHQH

样品接收时间：　2024 年 05 月 06 日

检测周期：　2024 年 05 月 06 日 ~ 2024 年 05 月 16 日

检测要求：　根据客户要求，
(i) 基于欧洲化学品管理署截止 2024 年 1 月 23 日公布的供授权审议的高关注物质候选清单(根据欧盟第 1907/2006 号 REACH 法规)，对 62 种无机的高关注物质(SVHC)及另外 11 种有机的金属高关注物质(SVHC)进行筛分检测。

检测方法：　见后续页。

检测结果：　见后续页。

总结：

通标标准技术服务（上海）有限公司
授权签名

Jenny Lan 兰柳珍
批准签署人

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根据具体的范围和筛分检测，所提交样品中 SVHC 检测结果≤ 0.1% (w/w)。	通过

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备注：

1. 本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件，利用现有的分析技术完成的。
   http://echa.europa.eu/web/guest/candidate-list-table
   这些文件清单由欧洲化学品管理署评估, 将来可能会有变化。
2. REACH 法规义务：
   2.1 关于物品：
   告知：
   欧盟第 1907/2006（EC）号法规第 33 条规定，含有满足第 57 条中的标准并根据第 59 条第一款被确定且质量分数大于 0.1%的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息，以使物品使用安全，这些信息至少包括含有的候选清单中物质的名称。

   通报：
   根据欧盟第 1907/2006（EC）号法规，如果满足以下两个条件，如果物质符合第 57 条中的标准并根据第 59 条第一款被确定，物品的任何欧洲制造商或进口商应根据第 7 条第 4 款向欧盟化学品管理署进行通报：(a) 候选清单中的物质在物品中的总含量超过 1 吨/年/生产商或进口商；(b) 候选清单中的物质在物品中的总含量以质量分数计超过 0.1% 的浓度。

   自 2021 年 1 月 5 日起，在欧盟市场上供应候选清单上浓度高于 0.1%重量比（w/w）的高关注物质（SVHC）的物品的公司必须遵守废物框架指令 2008/98/EC 要求，并向 ECHA 提交有关这些物品的 SCIP 通知。

   2.2 关于材料：
   报告中的检测结果是基于检测样品。如样品是均一材质，当其构成成品时，此结果不能代表成品中的 SVHC 浓度。如样品为均一材质等比例合测，这些材质也可能来自不同的物品。

   如果样品是一种物质或混合物，并且直接出口到欧盟，客户有责任遵守欧盟第 1907/2006 号 REACH 法规第 31 条供应链信息传递的义务和附件十四中的授权高关注物质授权的责任。

   2.3 关于物质和配制品：
   如果样品中高关注物质的浓度超过 0.1% (w/w)和/或欧盟第 1272/2008 号 CLP 法规及其修订中设定的特殊浓度限值，建议客户根据欧盟第 1907/2006 号 REACH 法规对有关高关注物质准备安全数据表(SDS)以符合供应链通信的义务，如
   -根据欧盟第 1272/2008 号 CLP 法规被列为有害物质。
   -根据欧盟第 1272/2008 号 CLP 法规被列为有害混合物，而当中物质的浓度大于或等于欧盟第 1272/2008 号 CLP 法规列出的浓度限值;或
   -根据欧盟第 1272/2008 号 CLP 法规并未列为有害混合物，但包含：
   (a) 对人类健康或环境有害的物质， 而在固体或液体混合物（即非气体混合物）中其浓度≥1％(w/w)或在气体混合物中占体积≥0.2％，或
   (b) PBT 或 vPvB 物质，在固体或液体混合物（即非气体混合物）中个别浓度≥0.1％(w/w)，或
   (c) 授权审议的高关注物质候选清单上的物质（除上述以外的原因）在个别非气体混合物中的浓度≥0.1％(w/w)，或
   (d) 设有欧洲范围内工作场所接触限值的物质。
3. 如果样品中 SVHC 的检测结果超过报告限，建议客户进一步定量分析检测含有 SVHC 的组分并且得到 SVHC 物质的准确浓度。

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检验检测专用章 Inspection & Testing Services

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检测样品：

检测组：

检测结果 ID	样品描述	检测部件 ID	SGS 样品 ID
001	银色金属	A5	SHA24-0089706-0001.C005

检测方法：

参考 SGS 内部方法，采用 ICP-OES、UV-VIS 进行分析。

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(SVHC)

检测结果：（候选清单中的高关注物质）

批次	物质名称	CAS No.	001 浓度 (%)	RL (%)
-	所有检测的候选清单中的 SVHC	-	ND	-

备注：

(1) 上表仅显示检测到的 SVHC，未报告 RL 以下的 SVHC。请参阅已检测 SVHC 的完整列表附录。

(2) RL = 报告限制（如果检测数据≥ RL，将显示检测数据。RL 不是监管限制。

ND = 未检测到（低于 RL），ND 表示在 SVHC 物质上。

(3) * 结果是由选定的元素结果基于最坏的情况计算，并根据物质用途和材料特性评估得出。

硼化合物的结果由 ICP-OES 检测的水提取硼元素结果换算得出。

四氧化二硼钡的结果由 ICP-OES 检测的水提取硼和钡元素结果换算得出。

RL = 0.005% 是针对元素 (例如钴、砷 、铅 、铬 (VI) 、铝、锆、硼、锶、锌、锑、钛、钡、镉)，除了钼的 RL= 0.0005%，硼的 RL= 0.0025%(仅对四氟硼酸铅)，氟的 RL=0.050%。

除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。

除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

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附录
所有检测的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
I	1	二氯化钴*	7646-79-9	0.005
I	2	五氧化二砷*	1303-28-2	0.005
I	3	三氧化二砷*	1327-53-3	0.005
I	4	砷酸氢铅*	7784-40-9	0.005
I	5	重铬酸钠*	10588-01-9 /7789-12-0	0.005
I	6	三乙基砷酸酯*	15606-95-8	0.005
II	7	钼铬红(C.I.颜料红 104)*	12656-85-8	0.005
II	8	铬酸铅*	7758-97-6	0.005
II	9	铅铬黄(C.I.颜料黄 34)*	1344-37-2	0.005
III	10	重铬酸铵*	7789-09-5	0.005
III	11	硼酸*	-	0.005
III	12	无水四硼酸钠*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	13	铬酸钾*	7789-00-6	0.005
III	14	重铬酸钾*	7778-50-9	0.005
III	15	铬酸钠*	7775-11-3	0.005
III	16	水合硼酸钠*	12267-73-1	0.005
IV	17	铬酸, 铬酸及重铬酸低聚物, 重铬酸*	-	0.005
IV	18	三氧化铬*	1333-82-0	0.005
IV	19	碳酸钴*	513-79-1	0.005
IV	20	乙酸钴*	71-48-7	0.005
IV	21	硝酸钴*	10141-05-6	0.005
IV	22	硫酸钴*	10124-43-3	0.005
V	23	铬酸锶*	7789-06-2	0.005
VI	24	硅酸铝耐火陶瓷纤维*	-	0.005
VI	25	砷酸*	7778-39-4	0.005
VI	26	砷酸钙*	7778-44-1	0.005
VI	27	铬酸铬*	24613-89-6	0.005
VI	28	叠氮化铅*	13424-46-9	0.005
VI	29	苦味酸铅*	6477-64-1	0.005
VI	30	史蒂芬酸铅*	15245-44-0	0.005
VI	31	氢氧化铬酸锌*	49663-84-5	0.005
VI	32	氢氧化铬酸锌钾*	11103-86-9	0.005
VI	33	砷酸铅*	3687-31-8	0.005
VI	34	氧化锆硅酸铝耐火陶瓷纤维*	-	0.005
VII	35	三氧化二硼*	1303-86-2	0.005
VII	36	甲基磺酸铅*	17570-76-2	0.005
VIII	37	二盐基邻苯二甲酸铅*	69011-06-9	0.005
VIII	38	碱式乙酸铅*	51404-69-4	0.005

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(SVHC)

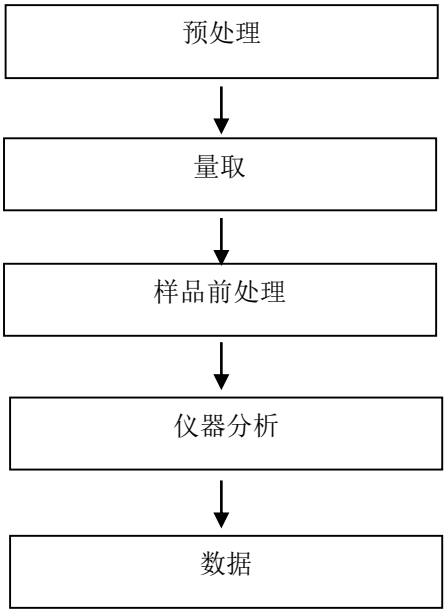
批次	序号	物质名称	CAS No.	RL (%)
VIII	39	双(十八酸基)二氧代三铅*	12578-12-0	0.005
VIII	40	C16-18-脂肪酸铅*	91031-62-8	0.005
VIII	41	四氟硼酸铅*	13814-96-5	0.005
VIII	42	氨基氰铅盐*	20837-86-9	0.005
VIII	43	硝酸铅*	10099-74-8	0.005
VIII	44	一氧化铅*	1317-36-8	0.005
VIII	45	碱式硫酸铅*	12036-76-9	0.005
VIII	46	四氧化三铅*	1314-41-6	0.005
VIII	47	钛酸铅*	12060-00-3	0.005
VIII	48	钛酸铅锆*	12626-81-2	0.005
VIII	49	硫酸四氧化五铅*	12065-90-6	0.005
VIII	50	铅锑黄*	8012-00-8	0.005
VIII	51	掺杂铅的硅酸钡*	68784-75-8	0.005
VIII	52	硅酸铅*	11120-22-2	0.005
VIII	53	二碱式亚硫酸铅*	62229-08-7	0.005
VIII	54	四乙基铅*	78-00-2	0.005
VIII	55	硫酸三氧化四铅*	12202-17-4	0.005
VIII	56	碱式碳酸铅*	1319-46-6	0.005
VIII	57	二碱式亚磷酸铅*	12141-20-7	0.005
IX	58	氧化镉*	1306-19-0	0.005
IX	59	镉	7440-43-9	0.005
X	60	硫化镉*	1306-23-6	0.005
X	61	乙酸铅*	301-04-2	0.005
XI	62	氯化镉*	10108-64-2	0.005
XI	63	水合过硼酸钠*	-	0.005
XI	64	过硼酸钠*	7632-04-4	0.005
XII	65	氟化镉*	7790-79-6	0.005
XII	66	硫酸镉*	10124-36-4 /31119-53-6	0.005
XVIII	67	硝酸镉*	10325-94-7	0.005
XVIII	68	碳酸镉*	513-78-0	0.005
XVIII	69	氢氧化镉*	21041-95-2	0.005
XIX	70	氧化硼钠*	12008-41-2	0.005
XIX	71	铅	7439-92-1	0.005
XXV	72	原硼酸钠盐*	13840-56-7	0.005
XXVIII	73	四氧化二硼钡*	13701-59-2	0.005

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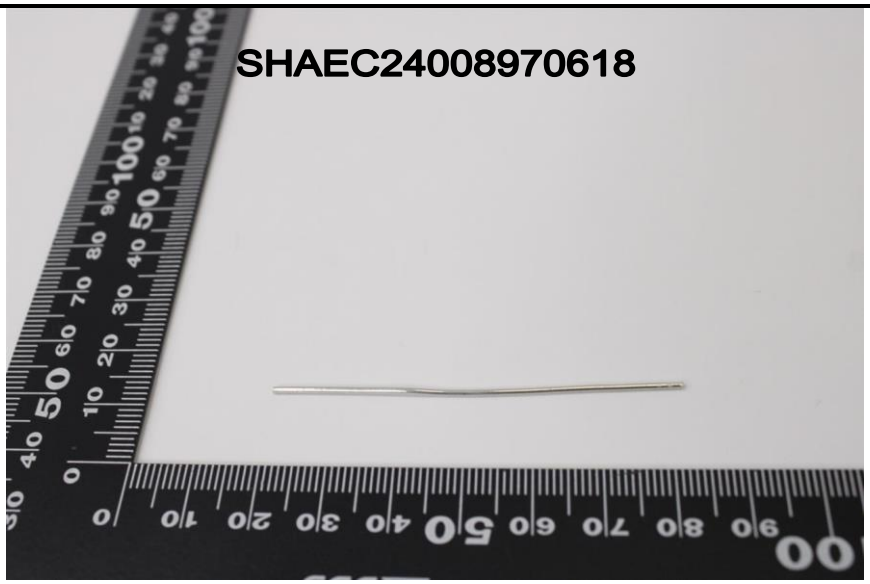
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Test Report

No.: SHAEC24008970619 **Date:** May 21, 2024

Client Name: TZAIYUAN ENTERPRISE CO.,LTD
CAIZHI ELECTRONICS TECHNOLOGY(JIANGXI) CO. LTD
CAIZHI ELECTRONICS (SUZHOU)CO.,LTD/
CAIZHI ELECTRONICS(SHENZHEN)CO.,LTD./
SUZHOU CHIH MAO ELECTRONICS CO.,LTD. /

Client Address: 13F-2,3,4 NO.27 , Lane 61, Sec.1, Kwangfu Rd., Sanchung City, Taipei , Taiwan
Hushan Section,Industrial Park, Yujiang District, Yingtan City, Jiangxi Province, China
Lu Xu Industrial Paik, Fen Hu Economic & Technology Development DISTRICT , Lu Xu Town , Wu Jiang City , Jiang Su Province , China .
No. 18-1, YuQuan E Rd., Yulv，Gongming St.,Guangming New District., Shenzhen City, GuangDongProvince,China.
No.1,Jindu Road,Southeast Economy Development Zone ,Changshu City,Jiangsu

Sample Name: Jumpers&Jumper Strips&Pins&Teflon Jumpers

Model No.: JU&PIN

The above sample(s) and information were provided by the client.

SGS Job No.: TIC1020240422152220RHQH

Sample Receiving Date: May 06, 2024

Testing Period: May 06, 2024 ~ May 16, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
Perfluorooctane sulfonic acid (PFOS) and its derivatives and Perfluorooctanoic acid (PFOA) and its salts	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jenny Lan
Approved Signatory

scan to see the report
63295EC0

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A5	SHA24-0089706-0001.C005	Silvery metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A5
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit(s)	MDL	A5
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm^2. The sample coating is considered to contain Cr(VI).

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm^2). The coating is considered a non-Cr(VI) based coating.

c. The result between 0.10 μg/cm^2 and 0.13 μg/cm^2 is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Perfluorooctane sulfonic acid (PFOS) and its derivatives and Perfluorooctanoic acid (PFOA) and its salts

Test Method: Modified CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A5
PFOS, its salts and related compounds				
PFOS and its derivatives	-	mg/kg	-	ND
Perfluorooctane sulfonates (PFOS), its salts^	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA), its salts^	754-91-6	mg/kg	0.010	ND
PFOA, its salts				
Perfluorooctanoic acid (PFOA), its salts^	335-67-1	mg/kg	0.010	ND

Notes:

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1. ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1
Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH_4)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH_2(C_2H_4OH)_2$)	70225-14-8
Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-$N(C_{10}H_{21})_2(CH_3)_2$)	251099-16-8
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7
Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7
Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
PFOSA, its salts	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH_4)	76752-72-2
PFOA, its salts & derivatives	
Perfluorooctanoic acid (PFOA)	335-67-1
Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Silver perfluorooctanote (PFOA-Ag)	335-93-3
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6
Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-$NH(C_4H_{10}N)$	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9

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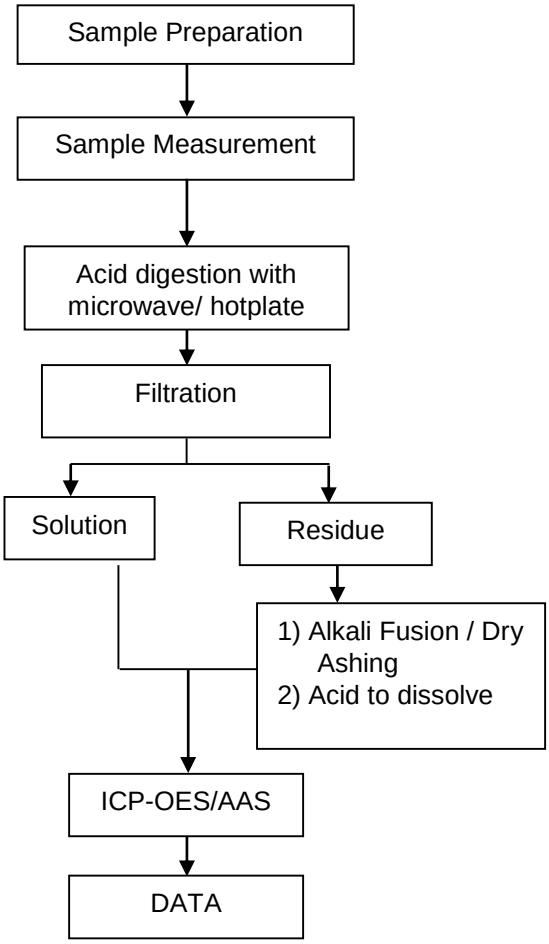
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



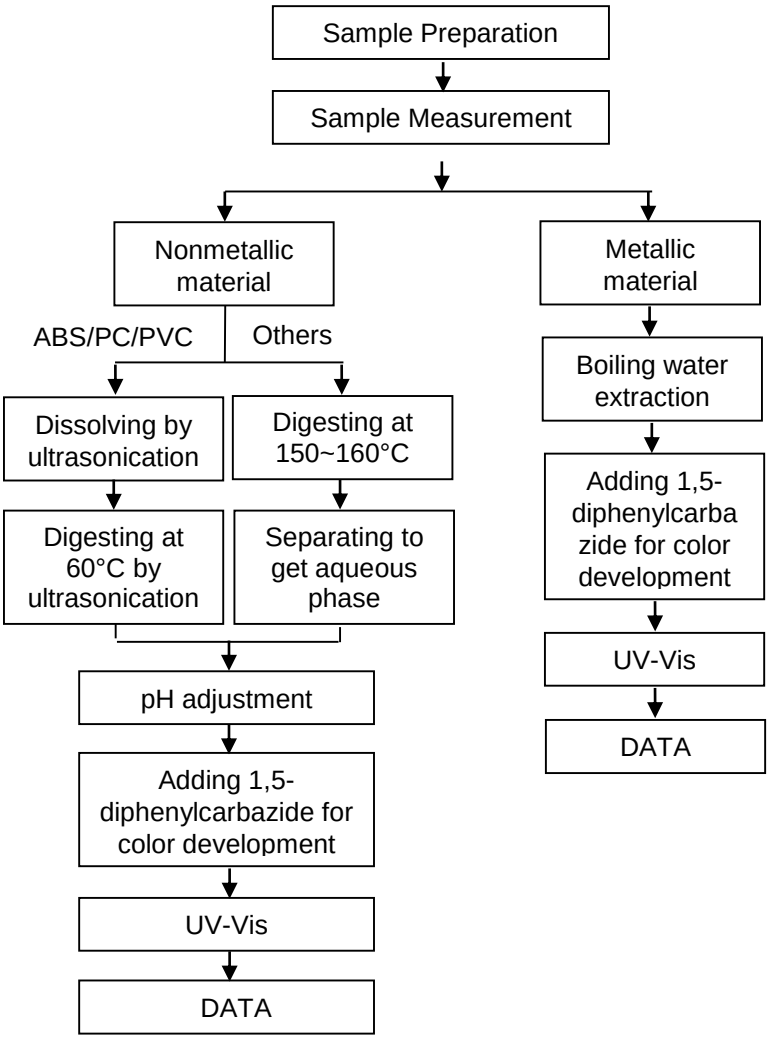
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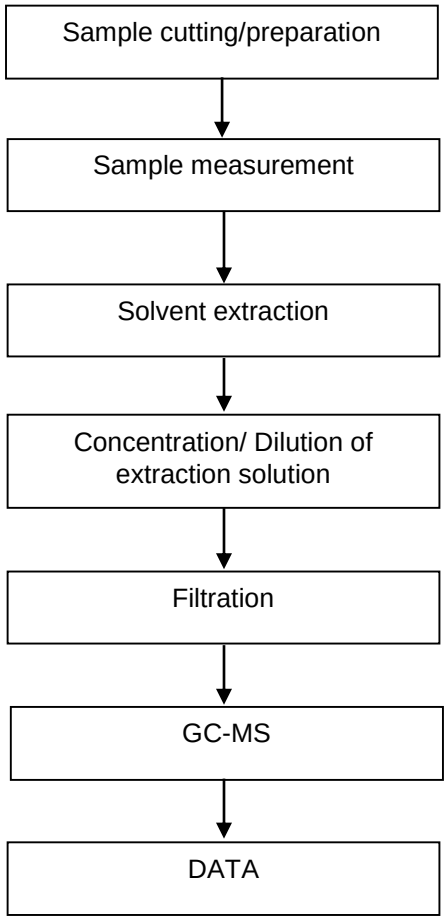
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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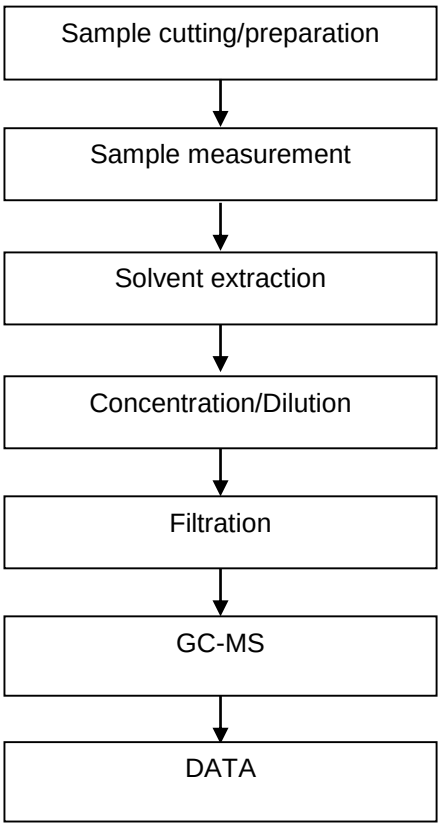
PBB/PBDE Testing Flow Chart



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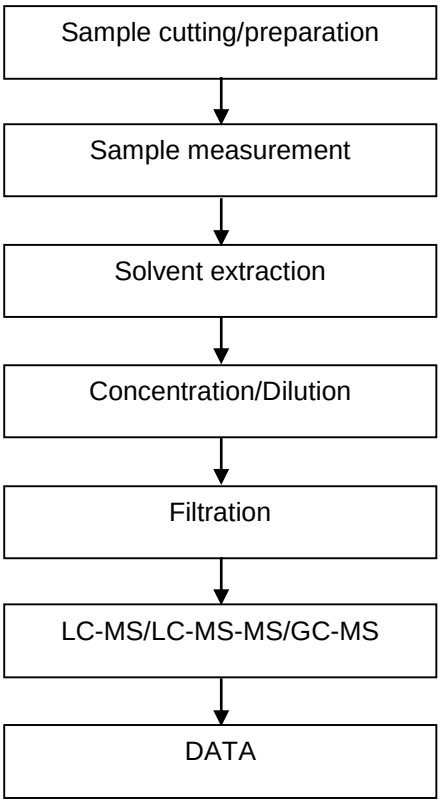
Phthalates Testing Flow Chart



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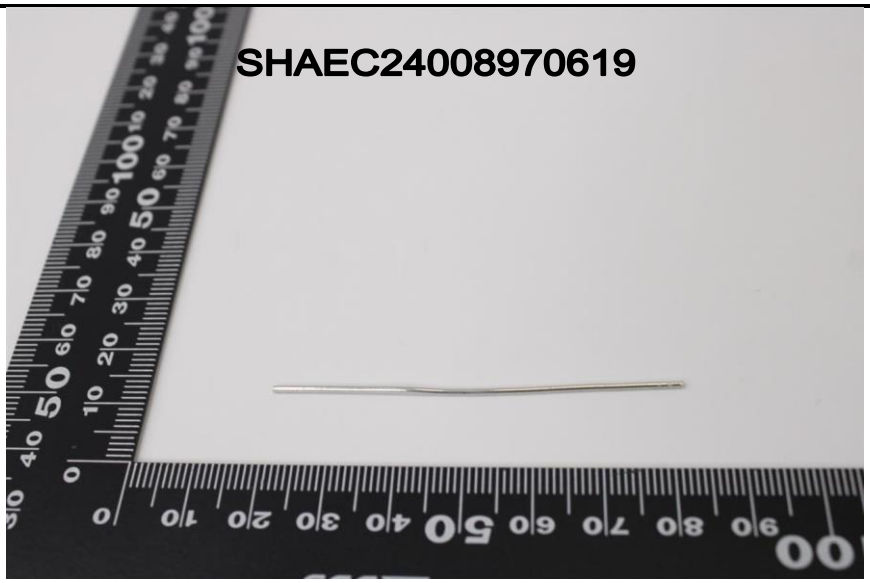
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PFASs/ PFOS/PFOA Testing Flow Chart



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Sample Photo:



SHA24-0089706-0001.C005

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