

承 認 書

SPECIFICATION FOR APPROVAL

客 戶: 019
CUSTOMER:

客 戶 料 號:
CUST P/N:

泛 亞 料 號:
FINE P/N:

產 品 型 號:
DESC: FY01912024051301L

日 期:
DATE: 2024/05/13

版 本:
Version: A.0

| 擬制 PREPARED BY | 審核 CHECKED BY | 批准 APPROVED BY | 客戶承認 CUSTOMER APPROVE |
|-------------------|------------------|-------------------|--------------------------|
| 尹 艺 | 王镇生 | 蔡纪雨 | |

东莞市泛亚电子有限公司

Dongguan FANYA Electronics Co., LTD

公司地址：东莞市石碣镇刘屋科技东路 194 号

TEL：0769-22490287 / 22452492

FAX：0769-22499451

E-mail: fineelec@163.com

Version Change History

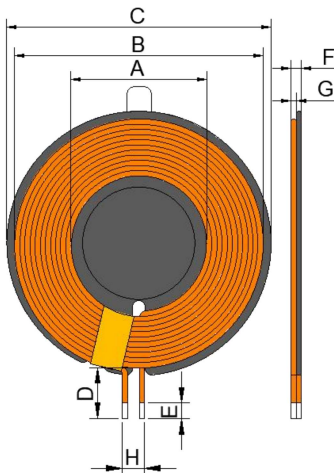
Dongguan FANYA Electronics Co., LTD

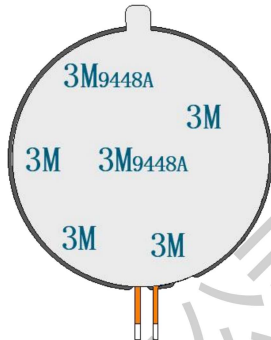
SPECIFICATION

| | | | | | |
|------------------|-------------------|----------------|----------------|--|-----|
| 產 品 型 號: DESC | FY01912024051301L | 版本 Rev: A.0 | 客戶 CUST: | | 019 |
| | | | 泛亚料号 Fine P/N: | | |
| | | | 客户料号 CUST P/N: | | |

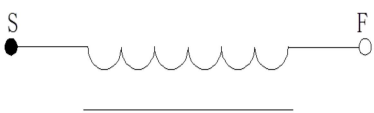
一、尺寸 DIMENSION:(mm)

HFROHS





二、原理图 SCHEMATIC DIAGRAM:



三、绕线参数 Winding Specification:

四、

| 序号 NO. | 端子 TERMINAL | | 线径 WIRE | 圈数 Turns | 绕线方向 Winding Direction |
|-----------|----------------|---|--------------|-------------|---------------------------|
| 1 | S | F | Litz0.08*80p | 11Ts | CW |

四、电气特性 ELECTRICAL CHARACTERISTICS:

温度 TEMPERATURE:25±10°C, 湿度 RELATIVE HUMIDITY:65±20%

| 序号 NO. | 项目 ITEM | 端子 TERMINAL | 标准 SPECIFICATION | 测试条件 TEST FREQUENCY | 测试仪器 TEST EQUIPMENTS |
|-----------|------------|----------------|---------------------|------------------------|-------------------------|
| 1 | IND. | S-F | 8.2uH ±5% | 360KHz/1.0V | TH2810 |
| 2 | DCR | S-F | 70m Ω Max | 25°C | TH2810 |
| 3 | ACR | S-F | 150m Ω Max | 360KHz/1.0V | TH2810 |

擬制/日期
PREPARED BY/DATE

尹艺 2024/05/13

審核/日期
CHECKED BY/DATE

蔡纪雨 2024/05/13

| | |
|---|------------------|
| A | 21.46±0.5 |
| B | 39.3±0.5 |
| C | 42.4±0.4 |
| D | 10±1 |
| E | 1-3 |
| F | 2.5Max (不含离型纸厚度) |
| G | 1.05±0.05 |
| H | 5.5Max (线径外围测) |

注:

1. 引线不交叉出线; 尾线出线位置贴 5mm 宽高温胶纸 1.5Ts;

2. 线圈反贴磁片, 磁片尺寸 φ 42.4*1.0mm, 开双直槽, 中间贴 φ 18mm*0.75, 小磁片一面贴 φ 15*0.08 带手撕位普通背胶;

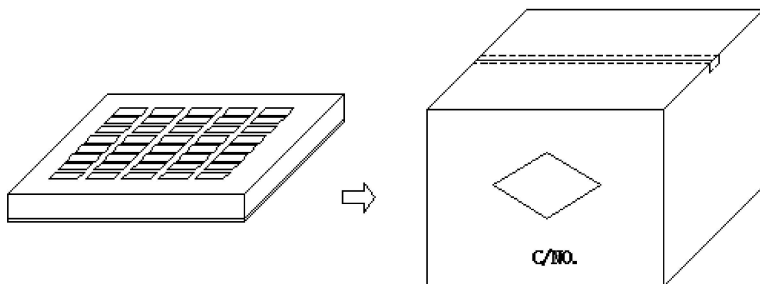
3. 磁片背面贴 φ 41.2×0.15 3M9448A 蓝色背胶;

SPECIFICATION

| | | | | |
|------------------|-------------------|----------------|----------------|-----|
| 产 品 型 号: DESC | FY01912024051301L | 版本 Rev: A.0 | 客 户 CUST: | 019 |
| | | | 泛亚料号 Fine P/N: | |
| | | | 客户料号 CUST P/N: | |

五、包装 PACKONG:

5.1 包装图片 Packing pictures:



5.2 包装数量及规格 Packing Quantity:

| 项目 Item | 数量 Quantity | 材料规格 Material |
|--------------|-------------|---------------|
| 盒 Box | 200Pcs | 370*265*55mm |
| 箱 Big Carton | 1000 Pcs | 420*270*310mm |

5.3 包装以现有包装盘为参照标准，以实际出货包装为准,如有特要求可以定制。

The packaging shall be based on the existing packing plate and the actual delivery package shall prevail. If there is any requirement, we can customize it.

六、材料清单 Material list:

| 序号 number | 材 料 名 称 Material name | 品 名 描 述 Description | 制 造 商 Manufacturer |
|--------------|--------------------------|--|-----------------------|
| 1 | Litz0.08*80p | Litz0.08*80p | |
| 2 | 无铅锡条 | 无铅锡条 | |
| 3 | 磁片 | 磁片尺寸 $\phi 42.4 \times 1.0\text{mm}$ ，开双直槽 | |
| 4 | 小磁片 | $\phi 18 \times 0.75\text{mm}$ | |
| 5 | 3M9448A 蓝色背胶 | $\phi 41 \times 0.15$ 带手撕位 | |
| 6 | 普通背胶 | $\phi 15 \times 0.08$ 带手撕位普通背胶 | |
| 7 | 高温胶纸 | 5mm 宽 | |
| 8 | | | |
| 9 | | | |

| | |
|---------------------------|--------------------------|
| 拟制/日期 PREPARED BY/DATE | 审核/日期 CHECKED BY/DATE |
| 尹 艺 2024/05/13 | 蔡纪雨 2024/05/13 |

Test Report

No.: SZXEC23000888001

Date: Jun 13, 2023

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Client Name: DONGGUAN FINE ELECTRONICS LIMITED

Client Address: 194 KEJI EAST ROAD, SHIJIE TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: Coil

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

SGS Job No.: SZP23-001370

Sample Receiving Date: May 15, 2023

Testing Period: May 15, 2023 ~ May 24, 2023

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass |

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina

Tina Fan

Approved Signatory

scan to see the report



4ED252AA



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center Chemical Laboratory

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Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|--|
| SN1 | A1 | SZX23-0008880-0001.C001 | Copper-colored metal wire with colorless transparent surface A1# |
| SN2 | A2 | SZX23-0008880-0001.C002 | Silvery metal wire with red surface A2# |
| SN3 | A3 | SZX23-0008880-0001.C003 | White material A3# |
| SN4 | A4 | SZX23-0008880-0001.C004 | White material A4# |
| SN5 | A5 | SZX23-0008880-0001.C005 | Dark grey core A5# |
| SN6 | A6 | SZX23-0008880-0001.C006 | Silvery metal A6# |

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A1 | A2 | A3 |
|------------------------------------|-------|---------|-----|----|----|----|
| Cadmium(Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | ND | ND | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND | ND | ND |
| Polybromobiphenyl (PBBs) | 1000 | mg/kg | - | ND | ND | ND |
| Monobromobiphenyl (MonoBB) | - | mg/kg | 5 | ND | ND | ND |
| Dibromobiphenyl (DiBB) | - | mg/kg | 5 | ND | ND | ND |
| Tribromobiphenyl (TriBB) | - | mg/kg | 5 | ND | ND | ND |
| Tetrabromobiphenyl (TetraBB) | - | mg/kg | 5 | ND | ND | ND |
| Pentabromobiphenyl (PentaBB) | - | mg/kg | 5 | ND | ND | ND |
| Hexabromobiphenyl (HexaBB) | - | mg/kg | 5 | ND | ND | ND |
| Heptabromobiphenyl (HeptaBB) | - | mg/kg | 5 | ND | ND | ND |
| Octabromobiphenyl (OctaBB) | - | mg/kg | 5 | ND | ND | ND |
| Nonabromobiphenyl (NonaBB) | - | mg/kg | 5 | ND | ND | ND |
| Decabromobiphenyl (DecaBB) | - | mg/kg | 5 | ND | ND | ND |
| Polybromodiphenyl ether(PBDEs) | 1000 | mg/kg | - | ND | ND | ND |
| Monobromodiphenylether (MonoBDE) | - | mg/kg | 5 | ND | ND | ND |
| Dibromodiphenylether (DiBDE) | - | mg/kg | 5 | ND | ND | ND |
| Tribromodiphenylether (TriBDE) | - | mg/kg | 5 | ND | ND | ND |
| Tetrabromodiphenylether (TetraBDE) | - | mg/kg | 5 | ND | ND | ND |



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Shenzhen Branch Testing Center Chemical Laboratory

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Test Report

No.: SZXEC23000888001

Date: Jun 13, 2023

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| Test Item(s) | Limit | Unit(s) | MDL | A1 | A2 | A3 |
|------------------------------------|-------|---------|-----|----|----|----|
| Pentabromodiphenylether (PentaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Hexabromodiphenylether (HexaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Heptabromodiphenylether (HeptaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Octabromodiphenylether (OctaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Nonabromodiphenylether (NonaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Decabromodiphenylether (DecaBDE) | - | mg/kg | 5 | ND | ND | ND |
| Dibutyl Phthalate(DBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Benzyl Butyl Phthalate(BBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000 | mg/kg | 50 | ND | ND | ND |
| Diisobutyl Phthalate(DIBP) | 1000 | mg/kg | 50 | ND | ND | ND |

| Test Item(s) | Limit | Unit(s) | MDL | A4 | A5 |
|------------------------------------|-------|---------|-----|----|----|
| Cadmium(Cd) | 100 | mg/kg | 2 | ND | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | ND | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND | ND |
| Polybromobiphenyl (PBBs) | 1000 | mg/kg | - | ND | ND |
| Monobromobiphenyl (MonoBB) | - | mg/kg | 5 | ND | ND |
| Dibromobiphenyl (DiBB) | - | mg/kg | 5 | ND | ND |
| Tribromobiphenyl (TriBB) | - | mg/kg | 5 | ND | ND |
| Tetrabromobiphenyl (TetraBB) | - | mg/kg | 5 | ND | ND |
| Pentabromobiphenyl (PentaBB) | - | mg/kg | 5 | ND | ND |
| Hexabromobiphenyl (HexaBB) | - | mg/kg | 5 | ND | ND |
| Heptabromobiphenyl (HeptaBB) | - | mg/kg | 5 | ND | ND |
| Octabromobiphenyl (OctaBB) | - | mg/kg | 5 | ND | ND |
| Nonabromobiphenyl (NonaBB) | - | mg/kg | 5 | ND | ND |
| Decabromobiphenyl (DecaBB) | - | mg/kg | 5 | ND | ND |
| Polybromodiphenyl ether(PBDEs) | 1000 | mg/kg | - | ND | ND |
| Monobromodiphenylether (MonoBDE) | - | mg/kg | 5 | ND | ND |
| Dibromodiphenylether (DiBDE) | - | mg/kg | 5 | ND | ND |
| Tribromodiphenylether (TriBDE) | - | mg/kg | 5 | ND | ND |
| Tetrabromodiphenylether (TetraBDE) | - | mg/kg | 5 | ND | ND |
| Pentabromodiphenylether (PentaBDE) | - | mg/kg | 5 | ND | ND |
| Hexabromodiphenylether (HexaBDE) | - | mg/kg | 5 | ND | ND |
| Heptabromodiphenylether (HeptaBDE) | - | mg/kg | 5 | ND | ND |
| Octabromodiphenylether (OctaBDE) | - | mg/kg | 5 | ND | ND |



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Test Report

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Date: Jun 13, 2023

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| Test Item(s) | Limit | Unit(s) | MDL | A4 | A5 |
|------------------------------------|-------|---------|-----|----|----|
| Nonabromodiphenylether (NonaBDE) | - | mg/kg | 5 | ND | ND |
| Decabromodiphenylether (DecaBDE) | - | mg/kg | 5 | ND | ND |
| Dibutyl Phthalate(DBP) | 1000 | mg/kg | 50 | ND | ND |
| Benzyl Butyl Phthalate(BBP) | 1000 | mg/kg | 50 | ND | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000 | mg/kg | 50 | ND | ND |
| Diisobutyl Phthalate(DIBP) | 1000 | mg/kg | 50 | ND | 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) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A6 |
|------------------------------------|-------|--------------------|------|----|
| Cadmium(Cd) | 100 | mg/kg | 2 | ND |
| Lead(Pb) | 1000 | mg/kg | 2 | 65 |
| Mercury(Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 0.10 | ND |
| Polybromobiphenyl (PBBs) | 1000 | mg/kg | - | ND |
| Monobromobiphenyl (MonoBB) | - | mg/kg | 5 | ND |
| Dibromobiphenyl (DiBB) | - | mg/kg | 5 | ND |
| Tribromobiphenyl (TriBB) | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl (TetraBB) | - | mg/kg | 5 | ND |
| Pentabromobiphenyl (PentaBB) | - | mg/kg | 5 | ND |
| Hexabromobiphenyl (HexaBB) | - | mg/kg | 5 | ND |
| Heptabromobiphenyl (HeptaBB) | - | mg/kg | 5 | ND |
| Octabromobiphenyl (OctaBB) | - | mg/kg | 5 | ND |
| Nonabromobiphenyl (NonaBB) | - | mg/kg | 5 | ND |
| Decabromobiphenyl (DecaBB) | - | mg/kg | 5 | ND |
| Polybromodiphenyl ether(PBDEs) | 1000 | mg/kg | - | ND |
| Monobromodiphenylether (MonoBDE) | - | mg/kg | 5 | ND |
| Dibromodiphenylether (DiBDE) | - | mg/kg | 5 | ND |
| Tribromodiphenylether (TriBDE) | - | mg/kg | 5 | ND |
| Tetrabromodiphenylether (TetraBDE) | - | mg/kg | 5 | ND |
| Pentabromodiphenylether (PentaBDE) | - | mg/kg | 5 | ND |
| Hexabromodiphenylether (HexaBDE) | - | mg/kg | 5 | ND |
| Heptabromodiphenylether (HeptaBDE) | - | mg/kg | 5 | ND |
| Octabromodiphenylether (OctaBDE) | - | mg/kg | 5 | ND |
| Nonabromodiphenylether (NonaBDE) | - | mg/kg | 5 | ND |



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Test Report

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| Test Item(s) | Limit | Unit(s) | MDL | A6 |
|------------------------------------|-------|---------|-----|----|
| Decabromodiphenylether (DecaBDE) | - | mg/kg | 5 | ND |
| Dibutyl Phthalate(DBP) | 1000 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate(BBP) | 1000 | mg/kg | 50 | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 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/cm².
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/cm²).
The coating is considered a non-Cr(VI) based coating
c. The result between 0.10 µg/cm² and 0.13 µg/cm² 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.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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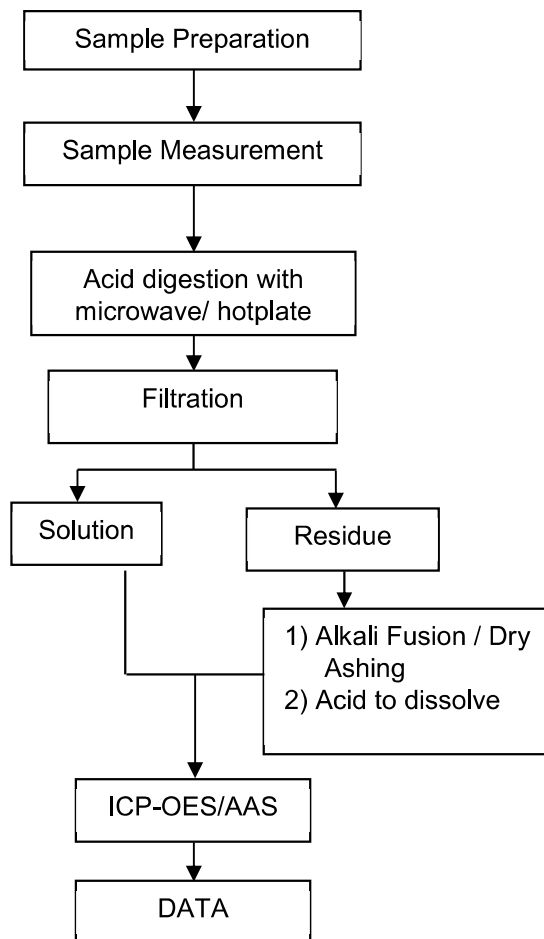
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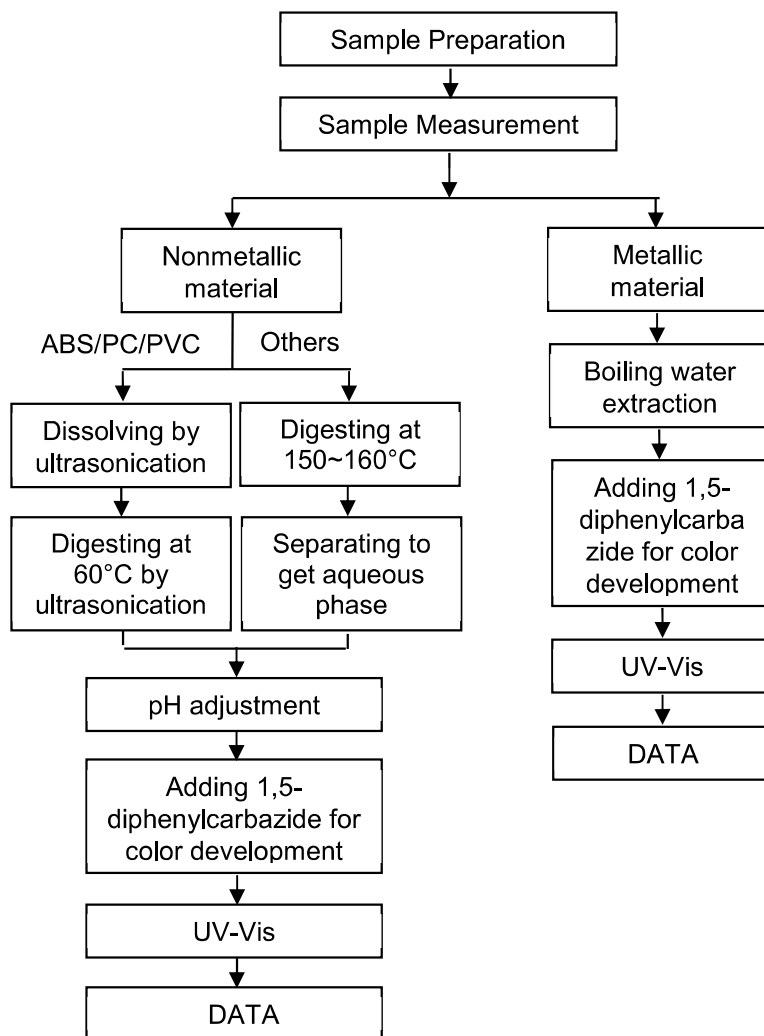
Elements Testing Flow Chart

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



ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



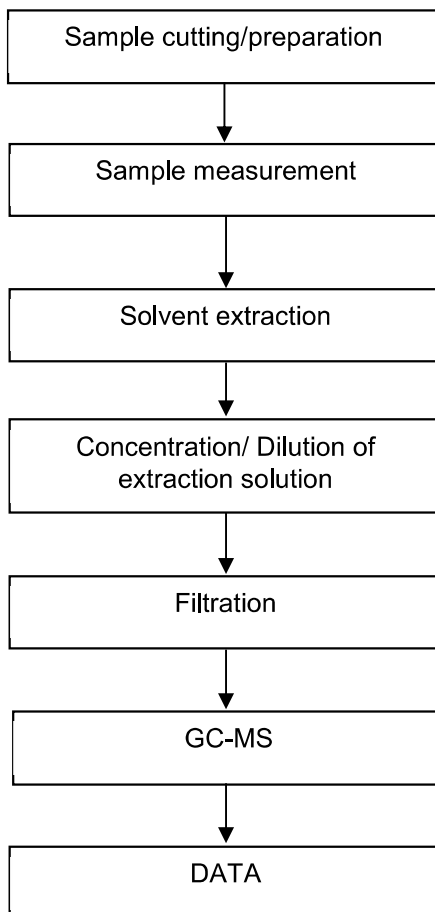
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PBBs/PBDEs Testing Flow Chart



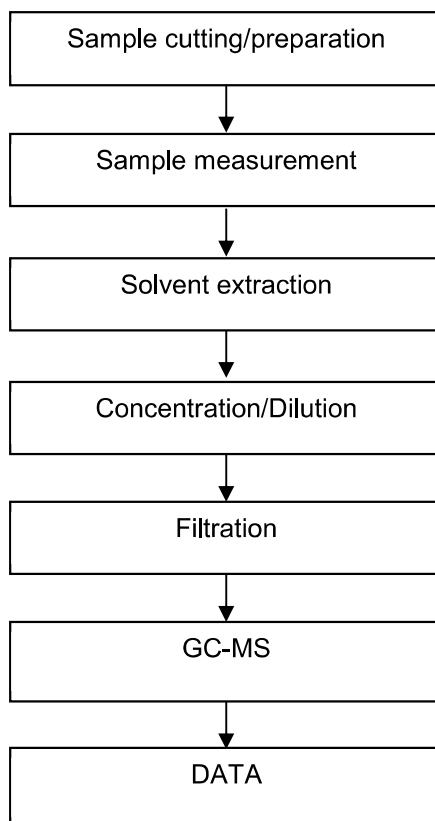
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Phthalates Testing Flow Chart



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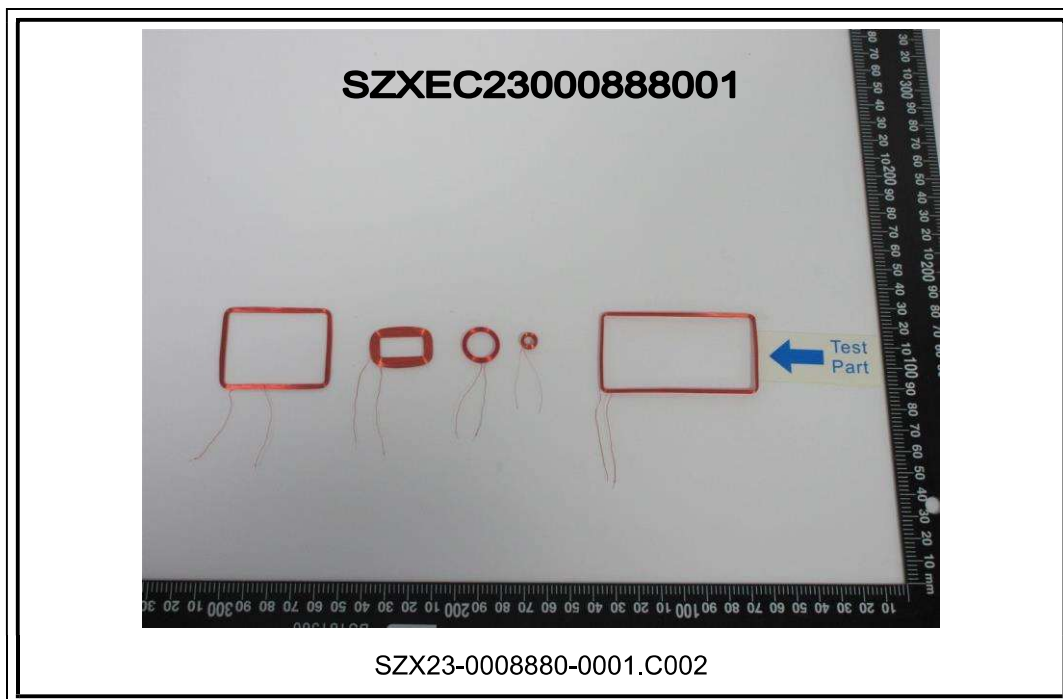
Test Report

No.: SZXEC23000888001

Date: Jun 13, 2023

Page 10 of 12

Sample Photo:







SGS authenticate the photo on original report only

*** End of Report ***

检测报告

编号: SZXEC23000888002

日期: 2023 年 06 月 13 日

第 1 页, 共 12 页

客户名称: 东莞市泛亚电子有限公司
客户地址: 广东省东莞市石碣镇科技东路 194 号

样品名称: 线圈
以上样品及信息由客户提供。

SGS 工作编号: SZP23-001370
样品接收时间: 2023 年 05 月 15 日
检测周期: 2023 年 05 月 15 日 ~ 2023 年 05 月 24 日
检测要求: 根据客户要求检测
检测方法: 见后续页。
检测结果: 见后续页。

| 检测要求 | 结论 |
|--|----|
| 欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP) | 符合 |

通标标准技术服务有限公司深圳分公司
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范萍

Tina Fan 范萍
批准签署人

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检测报告

编号: SZXEC23000888002

日期: 2023 年 06 月 13 日

第 2 页, 共 12 页

检测结果:

检测部件外观描述:

| 样品序号 | 样品编号 | SGS 样品 ID | 样品描述 |
|------|------|-------------------------|-------------------|
| SN1 | A1 | SZX23-0008880-0001.C001 | 带无色透明表层的铜色金属线 A1# |
| SN2 | A2 | SZX23-0008880-0001.C002 | 带红色表层的银色金属线 A2# |
| SN3 | A3 | SZX23-0008880-0001.C003 | 白色材料 A3# |
| SN4 | A4 | SZX23-0008880-0001.C004 | 白色材料 A4# |
| SN5 | A5 | SZX23-0008880-0001.C005 | 深灰色磁芯 A5# |
| SN6 | A6 | SZX23-0008880-0001.C006 | 银色金属 A6# |

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)和邻苯二甲酸二异丁酯(DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析。

| 检测项目 | 限值 | 单位 | MDL | A1 | A2 | A3 |
|---------------|------|-------|-----|----|----|----|
| 镉 (Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| 铅 (Pb) | 1000 | mg/kg | 2 | ND | ND | ND |
| 汞 (Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| 六价铬(Cr(VI)) | 1000 | mg/kg | 8 | ND | ND | ND |
| 多溴联苯之和(PBBs) | 1000 | mg/kg | - | ND | ND | ND |
| 一溴联苯(MonoBB) | - | mg/kg | 5 | ND | ND | ND |
| 二溴联苯(DiBB) | - | mg/kg | 5 | ND | ND | ND |
| 三溴联苯(TriBB) | - | mg/kg | 5 | ND | ND | ND |
| 四溴联苯(TetraBB) | - | mg/kg | 5 | ND | ND | ND |
| 五溴联苯(PentaBB) | - | mg/kg | 5 | ND | ND | ND |
| 六溴联苯(HexaBB) | - | mg/kg | 5 | ND | ND | ND |
| 七溴联苯(HeptaBB) | - | mg/kg | 5 | ND | ND | ND |
| 八溴联苯(OctaBB) | - | mg/kg | 5 | ND | ND | ND |
| 九溴联苯(NonaBB) | - | mg/kg | 5 | ND | ND | ND |
| 十溴联苯(DecaBB) | - | mg/kg | 5 | ND | ND | ND |



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检测报告

编号: SZXEC23000888002

日期: 2023 年 06 月 13 日

第 3 页, 共 12 页

| 检测项目 | 限值 | 单位 | MDL | A1 | A2 | A3 |
|------------------------|------|-------|-----|----|----|----|
| 多溴二苯醚之和(PBDEs) | 1000 | mg/kg | - | ND | ND | ND |
| 一溴二苯醚(MonoBDE) | - | mg/kg | 5 | ND | ND | ND |
| 二溴二苯醚(DiBDE) | - | mg/kg | 5 | ND | ND | ND |
| 三溴二苯醚(TriBDE) | - | mg/kg | 5 | ND | ND | ND |
| 四溴二苯醚(TetraBDE) | - | mg/kg | 5 | ND | ND | ND |
| 五溴二苯醚(PentaBDE) | - | mg/kg | 5 | ND | ND | ND |
| 六溴二苯醚(HexaBDE) | - | mg/kg | 5 | ND | ND | ND |
| 七溴二苯醚(HeptaBDE) | - | mg/kg | 5 | ND | ND | ND |
| 八溴二苯醚(OctaBDE) | - | mg/kg | 5 | ND | ND | ND |
| 九溴二苯醚(NonaBDE) | - | mg/kg | 5 | ND | ND | ND |
| 十溴二苯醚(DecaBDE) | - | mg/kg | 5 | ND | ND | ND |
| 邻苯二甲酸二丁酯 (DBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| 邻苯二甲酸丁苄酯 (BBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50 | ND | ND | ND |
| 邻苯二甲酸二异丁酯 (DIBP) | 1000 | mg/kg | 50 | ND | ND | ND |

| 检测项目 | 限值 | 单位 | MDL | A4 | A5 |
|-----------------|------|-------|-----|----|----|
| 镉 (Cd) | 100 | mg/kg | 2 | ND | ND |
| 铅 (Pb) | 1000 | mg/kg | 2 | ND | ND |
| 汞 (Hg) | 1000 | mg/kg | 2 | ND | ND |
| 六价铬(Cr(VI)) | 1000 | mg/kg | 8 | ND | ND |
| 多溴联苯之和(PBBs) | 1000 | mg/kg | - | ND | ND |
| 一溴联苯(MonoBB) | - | mg/kg | 5 | ND | ND |
| 二溴联苯(DiBB) | - | mg/kg | 5 | ND | ND |
| 三溴联苯(TriBB) | - | mg/kg | 5 | ND | ND |
| 四溴联苯(TetraBB) | - | mg/kg | 5 | ND | ND |
| 五溴联苯(PentaBB) | - | mg/kg | 5 | ND | ND |
| 六溴联苯(HexaBB) | - | mg/kg | 5 | ND | ND |
| 七溴联苯(HeptaBB) | - | mg/kg | 5 | ND | ND |
| 八溴联苯(OctaBB) | - | mg/kg | 5 | ND | ND |
| 九溴联苯(NonaBB) | - | mg/kg | 5 | ND | ND |
| 十溴联苯(DecaBB) | - | mg/kg | 5 | ND | ND |
| 多溴二苯醚之和(PBDEs) | 1000 | mg/kg | - | ND | ND |
| 一溴二苯醚(MonoBDE) | - | mg/kg | 5 | ND | ND |
| 二溴二苯醚(DiBDE) | - | mg/kg | 5 | ND | ND |
| 三溴二苯醚(TriBDE) | - | mg/kg | 5 | ND | ND |
| 四溴二苯醚(TetraBDE) | - | mg/kg | 5 | ND | ND |
| 五溴二苯醚(PentaBDE) | - | mg/kg | 5 | ND | ND |
| 六溴二苯醚(HexaBDE) | - | mg/kg | 5 | ND | ND |
| 七溴二苯醚(HeptaBDE) | - | mg/kg | 5 | ND | ND |
| 八溴二苯醚(OctaBDE) | - | mg/kg | 5 | ND | ND |
| 九溴二苯醚(NonaBDE) | - | mg/kg | 5 | ND | ND |
| 十溴二苯醚(DecaBDE) | - | mg/kg | 5 | ND | ND |



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Shenzhen Branch Testing Center Chemical Laboratory

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检测报告

编号: SZXEC23000888002

日期: 2023 年 06 月 13 日

第 4 页, 共 12 页

| 检测项目 | 限值 | 单位 | MDL | A4 | A5 |
|------------------------|------|-------|-----|----|----|
| 邻苯二甲酸二丁酯 (DBP) | 1000 | mg/kg | 50 | ND | ND |
| 邻苯二甲酸丁苄酯 (BBP) | 1000 | mg/kg | 50 | ND | ND |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50 | ND | ND |
| 邻苯二甲酸二异丁酯 (DIBP) | 1000 | mg/kg | 50 | ND | ND |

备注:

(1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863。

(2) IEC 62321 系列等同于 EN 62321 系列。

(3) 2021 年 7 月 22 号开始, DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析。

| 检测项目 | 限值 | 单位 | MDL | A6 |
|-----------------|------|--------------------|------|----|
| 镉 (Cd) | 100 | mg/kg | 2 | ND |
| 铅 (Pb) | 1000 | mg/kg | 2 | 65 |
| 汞 (Hg) | 1000 | mg/kg | 2 | ND |
| 六价铬(Cr(VI))▼ | - | µg/cm ² | 0.10 | ND |
| 多溴联苯之和(PBBs) | 1000 | mg/kg | - | ND |
| 一溴联苯(MonoBB) | - | mg/kg | 5 | ND |
| 二溴联苯(DiBB) | - | mg/kg | 5 | ND |
| 三溴联苯(TriBB) | - | mg/kg | 5 | ND |
| 四溴联苯(TetraBB) | - | mg/kg | 5 | ND |
| 五溴联苯(PentaBB) | - | mg/kg | 5 | ND |
| 六溴联苯(HexaBB) | - | mg/kg | 5 | ND |
| 七溴联苯(HeptaBB) | - | mg/kg | 5 | ND |
| 八溴联苯(OctaBB) | - | mg/kg | 5 | ND |
| 九溴联苯(NonaBB) | - | mg/kg | 5 | ND |
| 十溴联苯(DecaBB) | - | mg/kg | 5 | ND |
| 多溴二苯醚之和(PBDEs) | 1000 | mg/kg | - | ND |
| 一溴二苯醚(MonoBDE) | - | mg/kg | 5 | ND |
| 二溴二苯醚(DiBDE) | - | mg/kg | 5 | ND |
| 三溴二苯醚(TriBDE) | - | mg/kg | 5 | ND |
| 四溴二苯醚(TetraBDE) | - | mg/kg | 5 | ND |
| 五溴二苯醚(PentaBDE) | - | mg/kg | 5 | ND |
| 六溴二苯醚(HexaBDE) | - | mg/kg | 5 | ND |
| 七溴二苯醚(HeptaBDE) | - | mg/kg | 5 | ND |
| 八溴二苯醚(OctaBDE) | - | mg/kg | 5 | ND |
| 九溴二苯醚(NonaBDE) | - | mg/kg | 5 | ND |
| 十溴二苯醚(DecaBDE) | - | mg/kg | 5 | ND |
| 邻苯二甲酸二丁酯 (DBP) | 1000 | mg/kg | 50 | ND |



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Shenzhen Branch Testing Center Chemical Laboratory

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检测报告

编号: SZXEC23000888002

日期: 2023 年 06 月 13 日

第 5 页, 共 12 页

| 检测项目 | 限值 | 单位 | MDL | A6 |
|------------------------|------|-------|-----|----|
| 邻苯二甲酸丁苄酯 (BBP) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸二异丁酯 (DIBP) | 1000 | mg/kg | 50 | ND |

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321系列。
- (3) ▼ = a. 当六价铬的浓度高于0.13 $\mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND (低于0.10 $\mu\text{g}/\text{cm}^2$) 时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于0.10 $\mu\text{g}/\text{cm}^2$ 与0.13 $\mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表测试时样品含六价铬的状态。

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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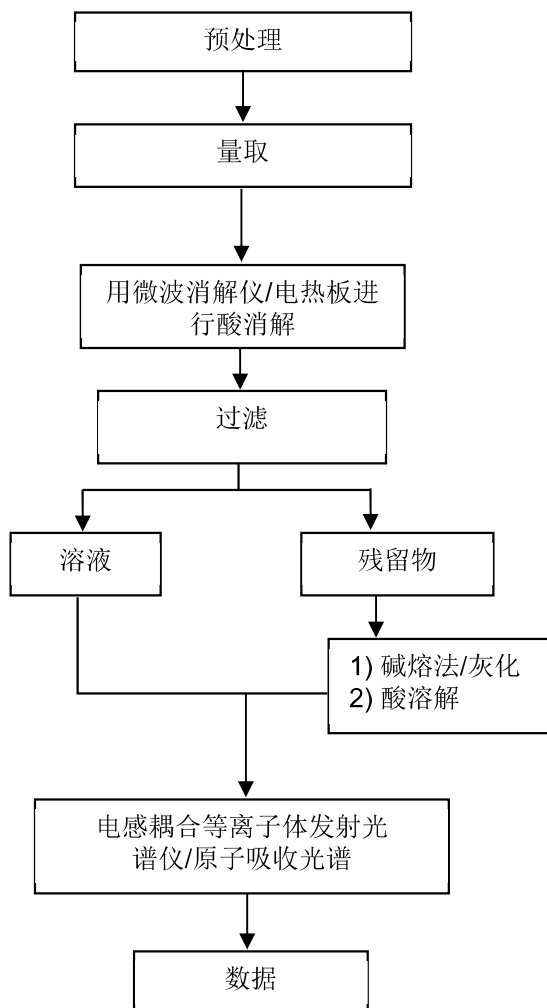
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元素检测流程图

样品按照下述流程被完全消解



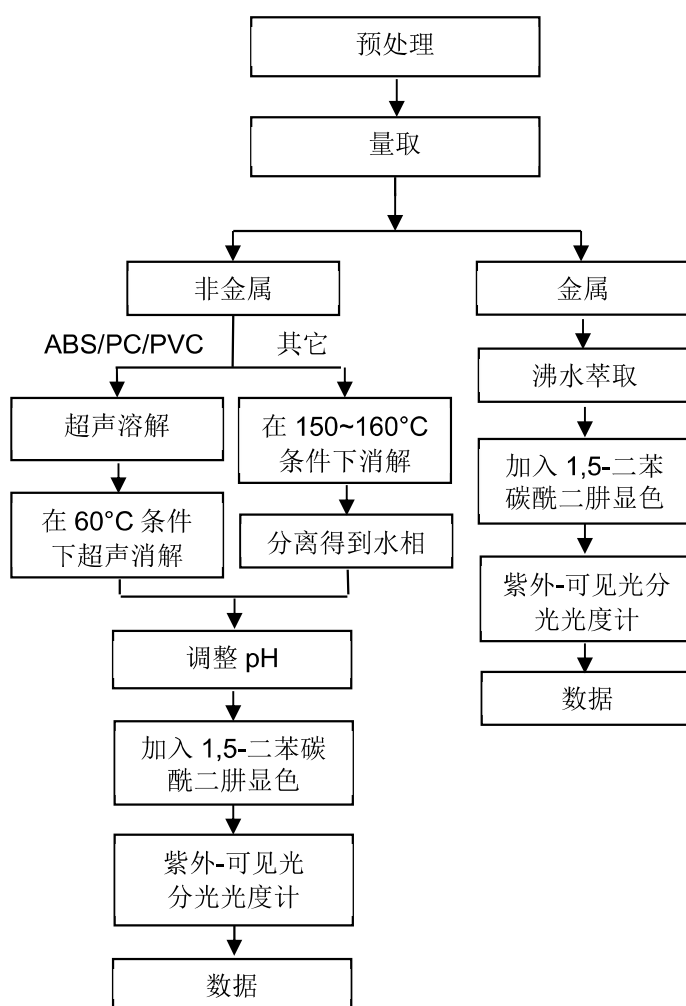
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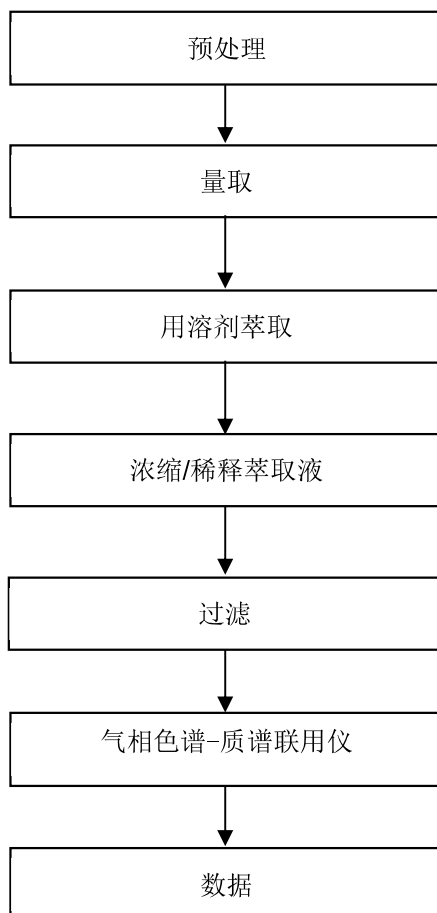
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六价铬检测流程图



PBBs/PBDEs 检测流程图



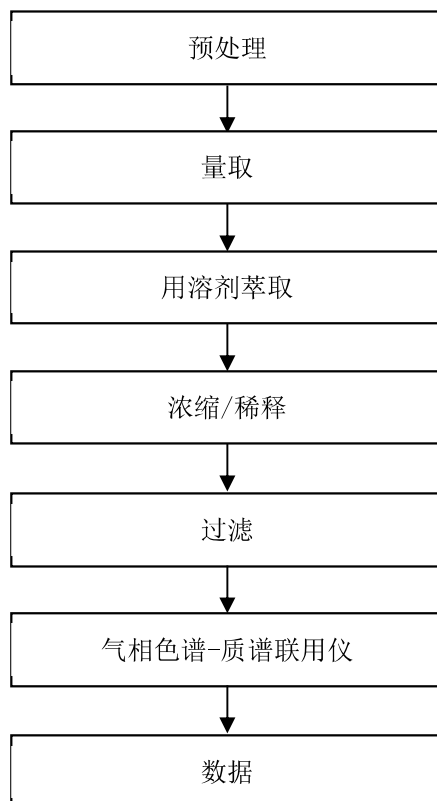
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Phthalates 检测流程图



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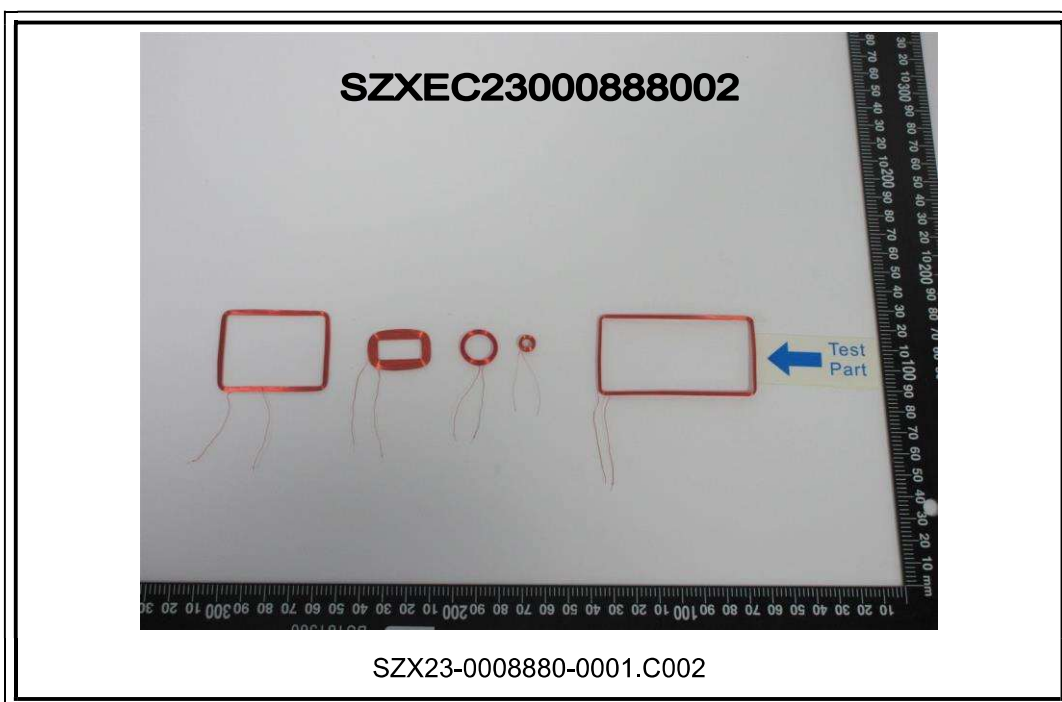
检测报告

编号: SZXEC23000888002

日期: 2023 年 06 月 13 日

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检测报告

编号: SZXEC23000888002

日期: 2023 年 06 月 13 日

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检测报告

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Test Report

No.: SZXEC23000888003

Date: Jun 13, 2023

Page 1 of 6

Client Name: DONGGUAN FINE ELECTRONICS LIMITED

Client Address: 194 KEJI EAST ROAD, SHIJIE TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: Coil

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

SGS Job No.: SZP23-001370

Sample Receiving Date: May 15, 2023

Testing Period: May 15, 2023 ~ May 24, 2023

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 |
|------------------|-------------|
| Halogen | See Results |

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina

Tina Fan

Approved Signatory

scan to see the report



49B63686



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Test Report

No.: SZXEC23000888003

Date: Jun 13, 2023

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Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|--|
| SN1 | A1 | SZX23-0008880-0001.C001 | Copper-colored metal wire with colorless transparent surface A1# |
| SN2 | A2 | SZX23-0008880-0001.C002 | Silvery metal wire with red surface A2# |
| SN3 | A3 | SZX23-0008880-0001.C003 | White material A3# |
| SN4 | A4 | SZX23-0008880-0001.C004 | White material A4# |
| SN5 | A5 | SZX23-0008880-0001.C005 | Dark grey core A5# |
| SN6 | A6 | SZX23-0008880-0001.C006 | Silvery metal A6# |

Remarks:

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

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

| Test Item(s) | Unit(s) | MDL | A1 | A2 | A3 |
|--------------|---------|-----|----|----|----|
| Fluorine(F) | mg/kg | 20 | ND | ND | ND |
| Chlorine(Cl) | mg/kg | 50 | ND | ND | 70 |
| Bromine(Br) | mg/kg | 50 | ND | ND | ND |
| Iodine(I) | mg/kg | 50 | ND | ND | ND |

| Test Item(s) | Unit(s) | MDL | A4 | A5 | A6 |
|--------------|---------|-----|-----|----|----|
| Fluorine(F) | mg/kg | 20 | ND | ND | ND |
| Chlorine(Cl) | mg/kg | 50 | 130 | ND | ND |
| Bromine(Br) | mg/kg | 50 | ND | ND | ND |
| Iodine(I) | mg/kg | 50 | ND | ND | ND |

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

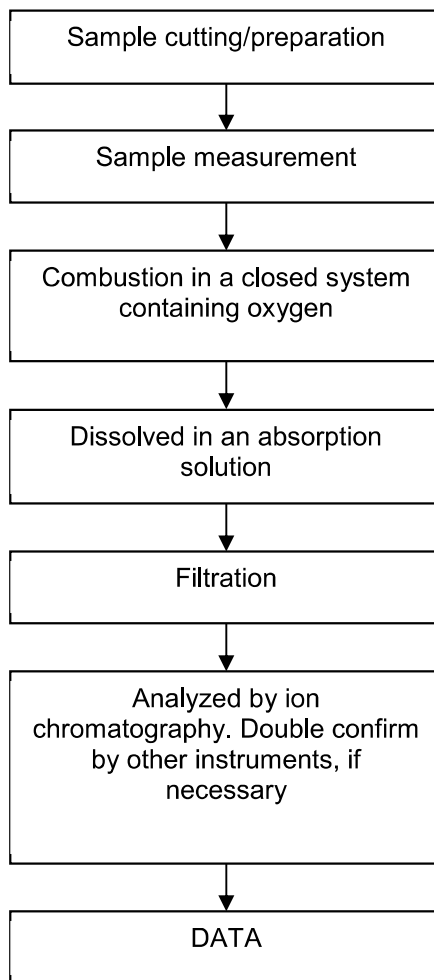


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Halogen Testing Flow Chart



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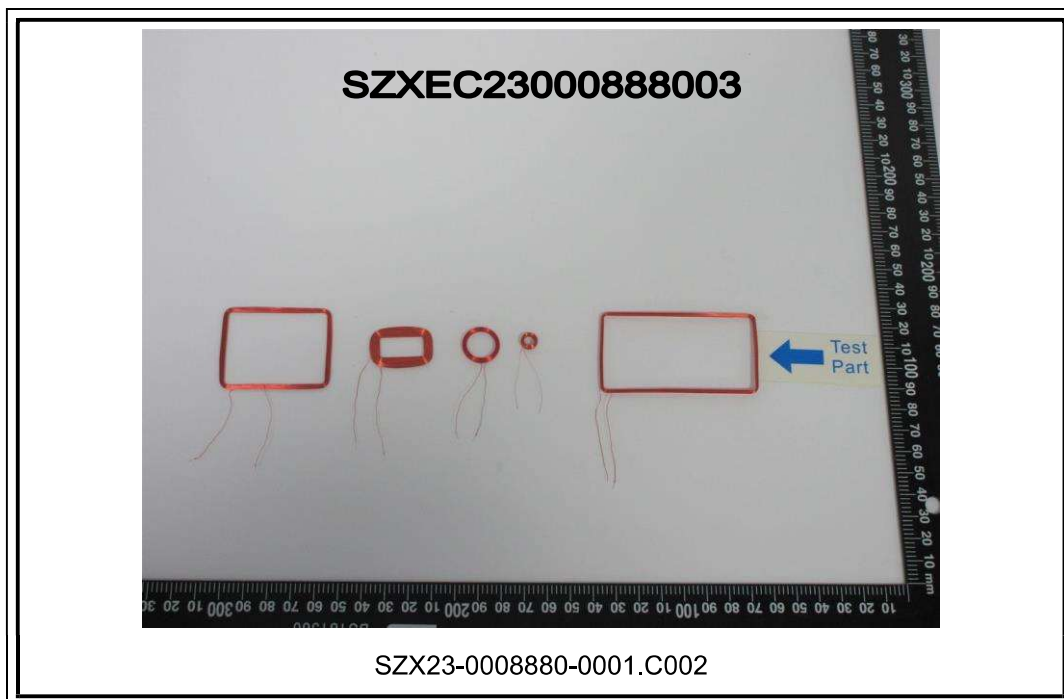
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Sample Photo:





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*** End of Report ***



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检测报告

编号: SZXEC23000888004

日期: 2023 年 06 月 13 日

第 1 页, 共 6 页

客户名称: 东莞市泛亚电子有限公司
客户地址: 广东省东莞市石碣镇科技东路 194 号

样品名称: 线圈
以上样品及信息由客户提供。

SGS 工作编号: SZP23-001370
样品接收时间: 2023 年 05 月 15 日
检测周期: 2023 年 05 月 15 日 ~ 2023 年 05 月 24 日
检测要求: 根据客户要求检测
检测方法: 见后续页。
检测结果: 见后续页。

| 检测要求 | 结论 |
|------|-------|
| 卤素 | 见检测结果 |

通标标准技术服务有限公司深圳分公司
授权签名

范萍

Tina Fan 范萍
批准签署人



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检测报告

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日期: 2023 年 06 月 13 日

第 2 页, 共 6 页

检测结果:

检测部件外观描述:

| 样品序号 | 样品编号 | SGS 样品 ID | 样品描述 |
|------|------|-------------------------|-------------------|
| SN1 | A1 | SZX23-0008880-0001.C001 | 带无色透明表层的铜色金属线 A1# |
| SN2 | A2 | SZX23-0008880-0001.C002 | 带红色表层的银色金属线 A2# |
| SN3 | A3 | SZX23-0008880-0001.C003 | 白色材料 A3# |
| SN4 | A4 | SZX23-0008880-0001.C004 | 白色材料 A4# |
| SN5 | A5 | SZX23-0008880-0001.C005 | 深灰色磁芯 A5# |
| SN6 | A6 | SZX23-0008880-0001.C006 | 银色金属 A6# |

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

卤素

检测方法: 参考 EN 14582:2016, 采用 IC 进行分析。

| 检测项目 | 单位 | MDL | A1 | A2 | A3 |
|--------|-------|-----|----|----|----|
| 氟 (F) | mg/kg | 20 | ND | ND | ND |
| 氯 (Cl) | mg/kg | 50 | ND | ND | 70 |
| 溴 (Br) | mg/kg | 50 | ND | ND | ND |
| 碘 (I) | mg/kg | 50 | ND | ND | ND |

| 检测项目 | 单位 | MDL | A4 | A5 | A6 |
|--------|-------|-----|-----|----|----|
| 氟 (F) | mg/kg | 20 | ND | ND | ND |
| 氯 (Cl) | mg/kg | 50 | 130 | ND | ND |
| 溴 (Br) | mg/kg | 50 | ND | ND | ND |
| 碘 (I) | mg/kg | 50 | ND | ND | ND |

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。



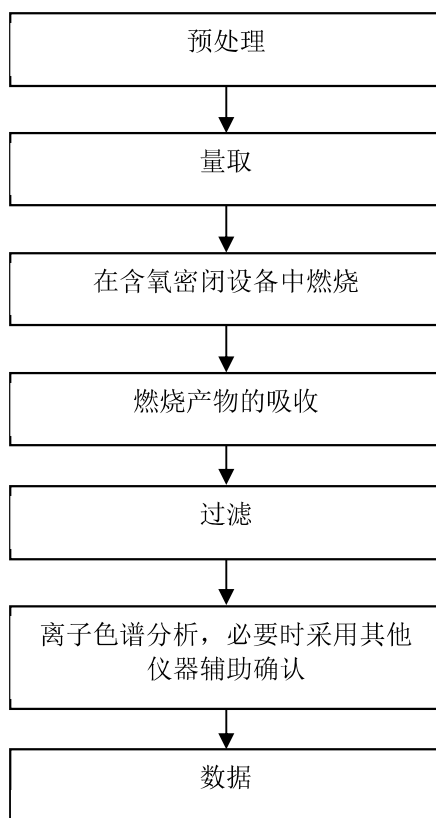
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卤素检测流程图



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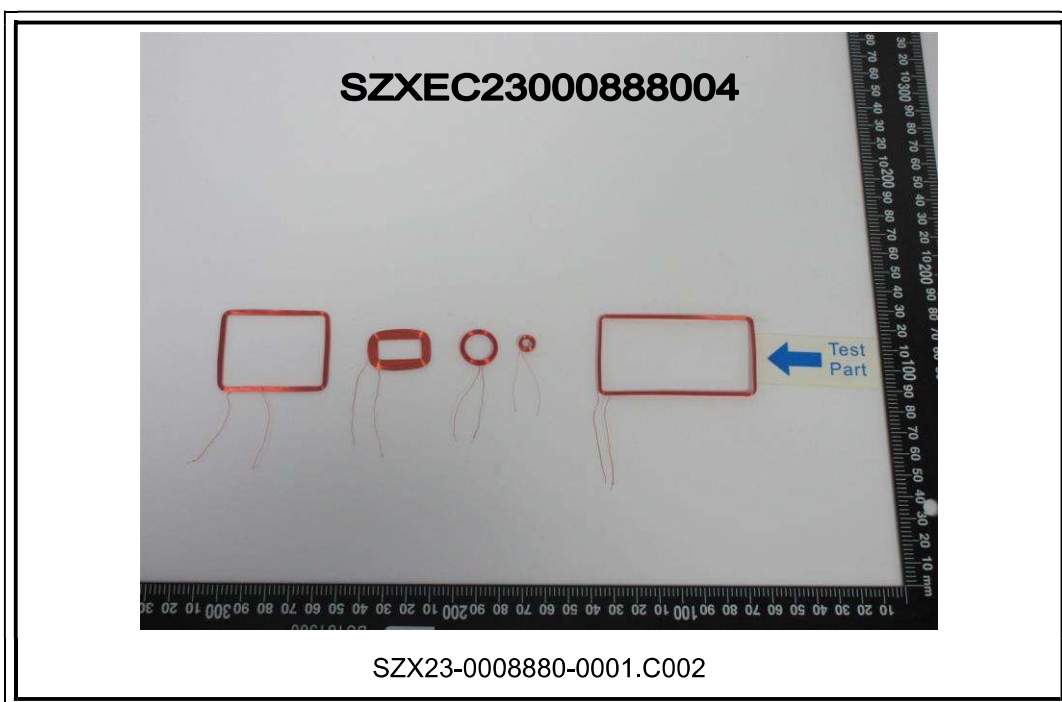
检测报告

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日期: 2023 年 06 月 13 日

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