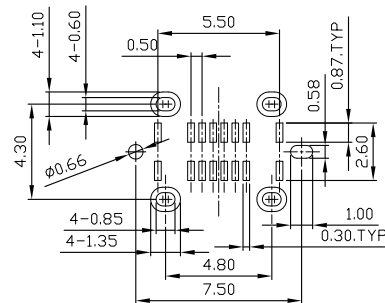
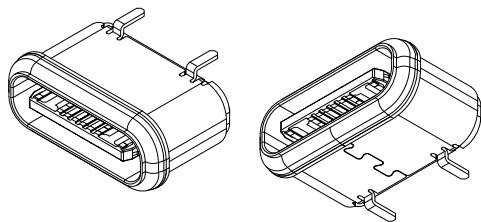
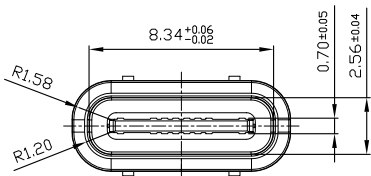
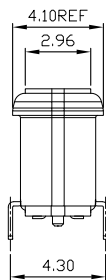
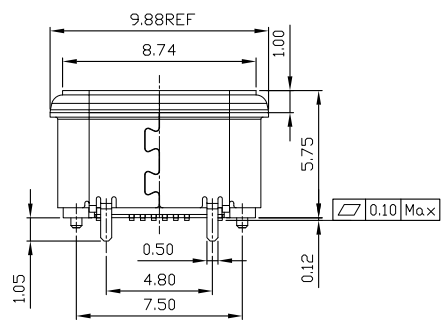


RoHS



NOTE:

- Material:
All Housing: THERMAL PLASTIC,Black,UL94V-0
Insulation Jacket: THERMAL PLASTIC,Black,UL94V-0
Contact: Copper Alloy
Mid Plate: Stainless Steel
Shell: Stainless Steel
O-Ring: Acrylate
- FINISH:
Contact: Ni 50u" MIN. UNDERPLATED OVER ALL
Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
(GOLD PLATING THICKNESS FOLLOW THE P/N)
PLATING SPECIFICATIONS OF THE SOLDER AREA
FOLLOW THE P/N
Mid-Plate: CLEAR ONLY
Shell: 30u" MIN Nickel Over All
- Electrical Characteristics:
Current Rating: 5A For Pin(A4,A9,B4,B9)
1.25A For Pin(B5)
0.25A For Others Pin
Insulation Resistance: 100MΩ Min.
Contact Resistance: 50 mΩ Max.
Dielectric Withstanding Voltage: 100V/AC 1Minute
- Mechanical Characteristics:
Insertion Force: 5~20N
Extraction Force: Initial: 8~20N
After durability: 6~20N
Durability :10000 Cycles
- Operating Temperature: -30°C TO +85°C



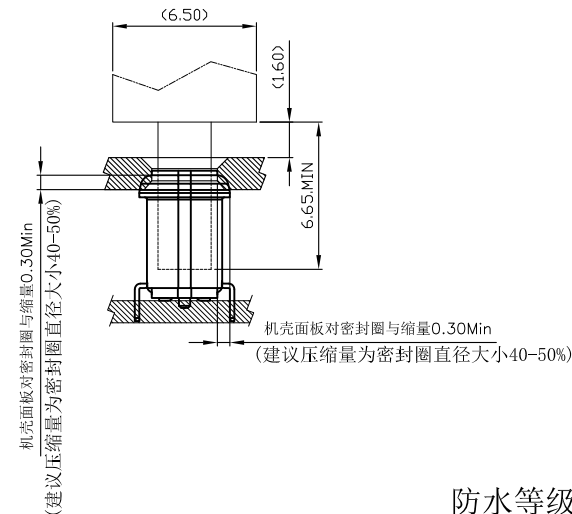
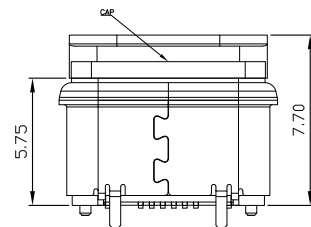
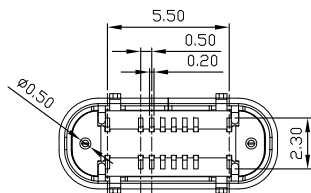
机壳面板

建议密封方式

密封圈

PCB板

| | | | |
|-----|-------------|-----|-------------|
| A1 | GND | B12 | GND |
| A4 | VBUS | B9 | VBUS |
| A5 | CC1 | B8 | SBU2 |
| A6 | D+ | B7 | D- |
| A7 | D- | B6 | D+ |
| A8 | SBU1 | B5 | CC2 |
| A9 | VBUS | B4 | VBUS |
| A12 | GND | B1 | GND |
| PIN | SIGNAL NAME | PIN | SIGNAL NAME |



防水等级: IPX6

发放部门

行政部

业务部

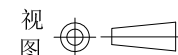
采购部

工程部

品质部

生产部

深圳市富港科技有限公司



TYPE-C USB插座

未注明公差

| | |
|------------|---------|
| X. ±0.25 | X' ±2" |
| .X ±0.20 | .X' ±1" |
| .XX ±0.15 | |
| .XXX ±0.05 | |

标 记 处 数

设 计 C Y 日期

校 对 L P J 日期

工 艺 日期

审 核 O F 日期

更改文件号

23.04.15

23.04.15

23.04.15

23.04.15

签 字 日期

日期

日期

日期

日期

图样标记

重量

比例

共 页

第 页

ST-C-FS-16PLS-5.75

1.0 Scope : This specification covers the requirements for product performance and test methods of USB C TYPE Series Connectors of the part numbers specified as bellow.

Product shall be of the design, construction and physical dimensions specified in the applicable product drawing.

范围：本规范涵盖了产品性能的要求和 USB C 型系列连接器的测试方法。

产品应具有适用产品图纸中规定的设计、施工和物理尺寸。

2.0 Rating :

2.1 Current Rating : VBUS pins(A4,B4,A9 and B9)&GND pins(A1,B1 ,B12 and A12) 5.0A(1.25A/Pin)

额定电流：VBUS(A4,B4,A9 and B9) pins 和 GND pins(A1,B1 ,B12 and A12) 5.0A(1.25A/Pin)

Other pins 0.25A/Pin

其他 PIN 0.25A/Pin

2.2 Temperature Range: storage : -20°C to +60°C ;

温度范围：储存: -20°C to +60°C

Operating : -30°C to +80°C :

工作: -30°C to +80°C :

Humidity: 90% Rh max.

湿度: 90% Rh max.

3.0 Test Condition: All tests shall be performed as bellow conditions unless otherwise specified.

测试条件：除非另有规定，所有测试必须以标准大气条件进行。

3.1 Temperature range : +15°C to +35°C

温度范围: +15°C to +35°C

3.2 Humidity range: 90% Rh max

湿度范围: 90% Rh max

4.0 Test Methods and Requirements: 测试方法和要求

4.1 Examination of product:

| Item | Test Description | Test Methods | Requirement |
|-------|--|---|---|
| 4.1.1 | Examination of product (Outward Appearance Structure) 产品检验(外观 结构) | EIA 364-18 Shall be confirmed with eyes in accordance with each drawing. Shall be confirmed by using proper measuring instruments. 应根据每张图用目视确认。 应使用适当的测量仪器确认。 | 1).Outward appearance shall be good without such injurious problem 外表必须是好的，没有明显损伤 2).Structure shall be meet the design and dimensional requirements of drawing. 结构应符合图纸的设计和尺寸要求 |

| 4.2 Electrical Performance: | | | |
|-----------------------------|---|--|--|
| Item | Test Description | Test Methods | Requirement |
| 4.2.1 | Low Level Contact Resistance 低接触电阻 | EIA 364-23 (or MIL-STD-1344A, Method 3002.1, Test Condition B) 40m Ω (Max) when measured at 20mv(max) open circuit at 100mA.Contact resistance below 50 m Ω after 10000 insertion/extraction cycles at a maximum rate of 500 cycles per hour EIA 364-23 (或 MIL-STD-1344A, 方法 3002.1, 测试条件 B) 40m Ω (最大) 测量时, 20mv (最大) 露电流 100mA。10000 次插入/拔出后接触电阻低于 50 m Ω , 最高速度为每小时 500 次 | 50 m Ω Maximum 50 m Ω 最大 |
| 4.2.2 | Insulation Resistance 绝缘电阻 | EIA 364-21 (or MIL-STD-202F, Method 302, Test Condition B) D.C 500 V is applied between adjacent congacts and insulation resistance is measured within 1 minute. EIA 364-21(或 MIL-STD-202F, 方法 302, 测试条件 B) D.C500 V 适用于相邻两 PIN 之间, 在 1 分钟内测量绝缘电阻 | 100 M Ω Minimum 100 M Ω 最小 |
| 4.2.3 | Dielectric Withstanding Voltage 耐电压 | EIA 364-20 (or MIL-STD-202F, Method 301, Test Condition B) Test between adjacent contacts of mated and unmated connector assemblies. The object of this test procedure is to detail a test method to prove that a USB connector can operate safely at its rated voltage and withstand momentary over potentials due to switching, surges and/or other similar phenomena. EIA 364-20(或 MIL-STD-202F, 方法 301, 测试条件 B)在相邻的触点之间进行试验, 试验对象为已公母组合的连接器组件。 本试验的目的是说明一种试验方法, 以证明 USB 连接器可在其额定电压下安全运行, 并能承受开关、或其他类似现象造成的短暂电势 | There shall be no shortcircuiting and damage detected at AC 100 V R.M.S for 1 minute. AC 100 V 1 分钟内不得出现短路和损坏 |

| 4.3 Mechanical Performance: (Continued) 机械性能: (续) | | | |
|---|--------------------------|---|---|
| Item | Test Description | Test Methods | Requirement |
| 4.3.1 | Insertion Force 插入力 | EIA 364-13 The insertion force test shall be done at a maximum rate of 12.5mm/min. EIA 364-13 插入力试验应以 12.5 毫米/分钟的速度最大进行测试。 | 5~20N |
| 4.3.2 | Extraction Force 拔出力 | EIA 364-13 The extraction force test shall be done at a maximum rate or 12.5mm/min. EIA 364-13 拔出力试验应以 12.5 毫米/分钟的速度最大进行测试。 | 8~20N |
| 4.3.3 | Durability 耐久 | EIA 364-09 Mate and unmate Connector assemblies for 10000 cycles at maximum rated of 500 cycles per hour. Flip Interval: Every 2500 cycles EIA 364-09 公母配对插入拔出连接器组件, 最高额定为每小时 500 次。 翻转间隔: 每 2500 次翻转一次 | 1) No flashover or insulation breakdown 无闪燃或绝缘故障 2) Extraction Force: Initial: 8~20N After: 6~20N 3) Contact Resistance: Max.50mΩ 接触电阻: 最大值 50 mΩ 4) 插拔力数据记录: 第 1 次,第 6 次,第 32 次,第 10000 次 |
| 4.3.4 | Mechanical Shock 机械冲击 | EIA-364-27B Subject mated connector to 50G' s half-sine shock pulses of 11msec duration. Three shocks in each direction applied along three mutuall perpendicular planed for a total of 18 shocks EIA-364-27B 与 50G 的持续时间为 11 微米的半正弦脉冲进行了配对。在三个相互垂直的平面上, 每个方向施加三次冲击, 共 18 次冲击 | No discontinuities of 1 microsecond or long duration. See note 没有 1 微秒或长持续时间的中断 |
| 4.3.5 | Vibration 振动 | EIA-364-28 Subject mated connectors to 10~55~10Hz traversed in 1 minute at 1.52mm amplitude 2 hours each of 3 mutually perpendicular planes. EIA-364-28 所述连接器与 10~55~10Hz 的连接器 | No discontinuities of 1 microsecond or long duration. See note 没有 1 微秒或长持续时间的中断 |

| | | 以 1.52 毫米的振幅在 3 个相互垂直的平面各 2 小时内通过。 | |
|--------------------------------|----------------------|--|--|
| 4.4 Environmental Performance: | | | |
| Item | Test Description | Test Methods | Requirement |
| 4.4.1 | Thermal Shock 热冲击 | EIA 364-32, Test Condition I, (or MIL-202F, Method 107G Condition A.) Subject mated connectors to ten cycles between - 30 °C to +80°C. The object of this test is to determine the resistance of a usb connector to exposure at extremes of high and low temperatures and to the shock of alternate exposures to these extremes, simulating the worst case conditions for storage, transportation and application. EIA 364-32, (或 MIL-202F, 方法 107G 条件 A) 在 -30°C 至 +80°C 之间的十个循环中进行配对。 本试验的目的是确定 USB 连接器在高温和低温的极端条件下对接触的电阻, 以及对交替接触这些极端条件的冲击的电阻, 模拟储存、运输和应用的冻土箱条件。 | 1). Shall meet visual requirement, show no physical damage. 应符合视觉要求, 不显示任何物理损坏 2). Shall meet requirements of additional tests as specified in test sequence in Section 5 应符合第 5 节试验顺序中规定的额外试验的要求 |
| 4.4.2 | Humidity 湿度 | EIA 364-31, Test Condition A Method III, (or MIL-202F, Method 103B Test Condition B.) Subject mated connectors to 96 Hours (Four complete cycles) The object of this test procedure is to detail a standard method for the evaluation of the properties of materials used in USB connectors as these influenced by the effects of high humidity and heat. EIA 364-31 (MIL-202F, 方法 103B 试验条件 B) 将连接器配对至 96 小时 (4 个完整周期) 本试验程序的目的是详细介绍一种标准的评价方法, 用于评价在高湿度和高热的影响下, USB 连接器所用材料的性能。 | 1). Shall meet visual requirement, show no physical damage. 应符合视觉要求, 不显示任何物理损坏 2). Shall meet requirements of additional tests as specified in test sequence in Section 5 应符合第 5 节试验顺序中规定的额外试验的要求 |
| 4.4.3 | Salt Spray 盐雾 | The environment in accordance with EIA-364-26B Method 101D, Condition B. Temperature : 35° C ± 2° C Relative Humidity : 95~98%RH Gas : 5 ± 1%(by weight) Duration : 48 hours 按照 EIA-364-26B 方法 101D, 条件 B 的规定进行的环境监察工作温度: 35 ° C ± 2 ° C 相对湿度: 95 ~ 98% 相对湿度: 5 ± 1% (以重量计) | 1). Shall meet visual requirement, show no physical damage. 应符合视觉要求, 不显示任何物理损坏 2). Shall meet requirements of additional tests as specified in test sequence in Section 5 应符合第 5 节试验顺序中规定的额外试验的要求 |

| | | 持续时间: 48 小时 | |
|--|-------------------------------------|---|---|
| 4.4.4 | Temperature Life 温度寿命 | <p>EIA 364-17 Test Condition 3 Method A, Subject mated connectors to temperature life at 80°C for 250hours</p> <p>EIA 364-17 试验条件 3 方法 A, 将连接器保持在 80 °C 温度内 250 小时</p> | <p>1). Shall meet visual requirement, show no physical damage. 应符合视觉要求, 不显示任何物理损坏</p> <p>2). Shall meet requirements of additional tests as specified in test sequence in Section 5 应符合第 5 节试验顺序中规定的额外试验的要求</p> |
| 4.4 Environmental Performance: (Continued) | | | |
| Item | Test Description | Test Methods | Requirement |
| 4.4.5 | Solderability 可焊性 | <p>EIA 364-52</p> <p>After one hour steam aging.</p> <p>The object of test procedure is to detail a uniform test methods for determining usb connectors solderability.</p> <p>The test procedure contained here utilizes the solder dip technique. It is not intended to test or evaluate solder cup, solder eyelet, other hand-soldered type or SMT type terminations.</p> <p>测试程序的目的是详细说明 USB 连接器可焊性的测试方法。</p> | <p>The surface of the portion to be soldered shall at least 95% covered with new solder coating, as specified in Category 2.</p> <p>表面至少应覆盖 95% 的焊料涂层</p> |
| 4.4.6 | Resistance to Soldering Heat 耐焊性 | <p>1) for WAVE SOLDERING :MIL-STD-202F, Method 210A, Test Condition B. 用于波峰焊: MIL-STD-202F, 方法 210A, 试验条件 B。 Pre-heat (预热) : 80°C, 60 Seconds Temperature(温度) : 260 ± 5 °C Immersion duration (持续时间) : 10 ± 1 sec.</p> <p>for REFLOW SOLDERING : EIAJ RCX-0101/102. 用于再焊接: EIAJ RCX-0101/102. Pre-heat(预热) : 150(Min)~200(Max) °C, 60 ~180 Seconds Temperature (温度) : 260 ± 5 °C Immersion duration(持续时间): 10~40 sec.</p> | <p>1). No mechanical defect on housing or other parts.</p> |
| | | | |

Test Report

No.: SZXEC23000424905

Date: Apr 06, 2023

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Client Name: SHENZHEN FUGANG TECHNOLOGY CO.,LTD

Client Address: FLOOR 3, BUILDING 4, ZONE (A), XINHE XINXING INDUSTRIAL ZONE 3, FUHAI STREET, BAO 'AN DISTRICT, SHENZHEN CITY

Sample Name: LCP Plastic

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

SGS Job No.: RP23-007227

Sample Receiving Date: Mar 29, 2023

Testing Period: Mar 29, 2023 ~ Apr 06, 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

Fay

Fay Yuan

Approved Signatory

scan to see the report



AC1D704B



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

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Test Report

No.: SZXEC23000424905

Date: Apr 06, 2023

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Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|----------------------|
| SN1 | A2 | SZX23-0004249-0001.C002 | Beige plastic grains |

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 | A2 |
|------------------------------------|-------|---------|-----|----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | 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 |
| Decabromodiphenylether (DecaBDE) | - | mg/kg | 5 | ND |
| Dibutyl Phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND |



SGS-CTC Shenzhen Branch
Shenzhen Branch Testing Center Chemical Laboratory

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Test Report

No.: SZXEC23000424905

Date: Apr 06, 2023

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| Test Item(s) | Limit | Unit(s) | MDL | A2 |
|------------------------------------|-------|---------|-----|----|
| 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) 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.

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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Test Report

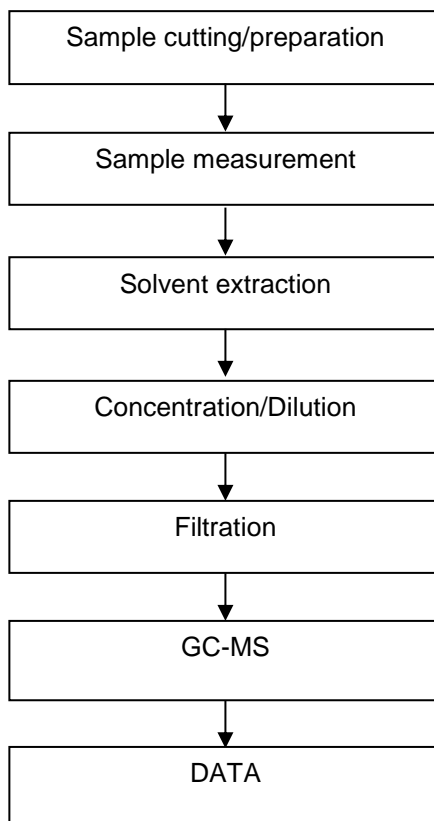
No.: SZXEC23000424905

Date: Apr 06, 2023

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Phthalates Testing Flow Chart



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Test Report

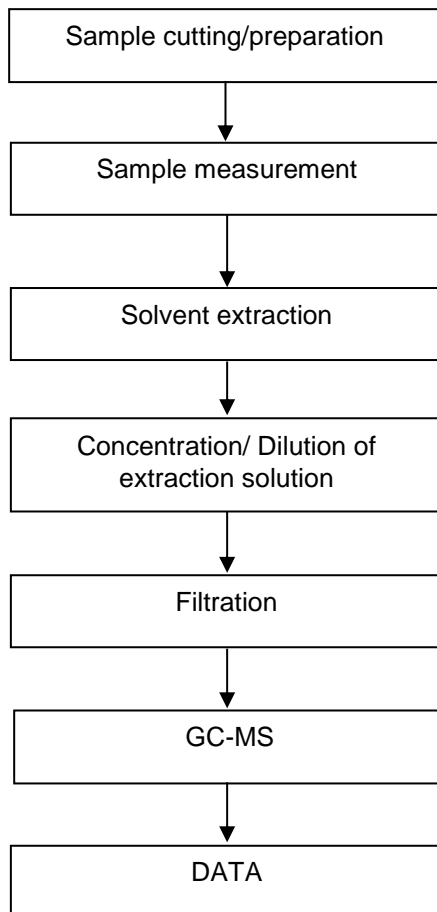
No.: SZXEC23000424905

Date: Apr 06, 2023

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ATTACHMENTS

PBBs/PBDEs Testing Flow Chart



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Test Report

No.: SZXEC23000424905

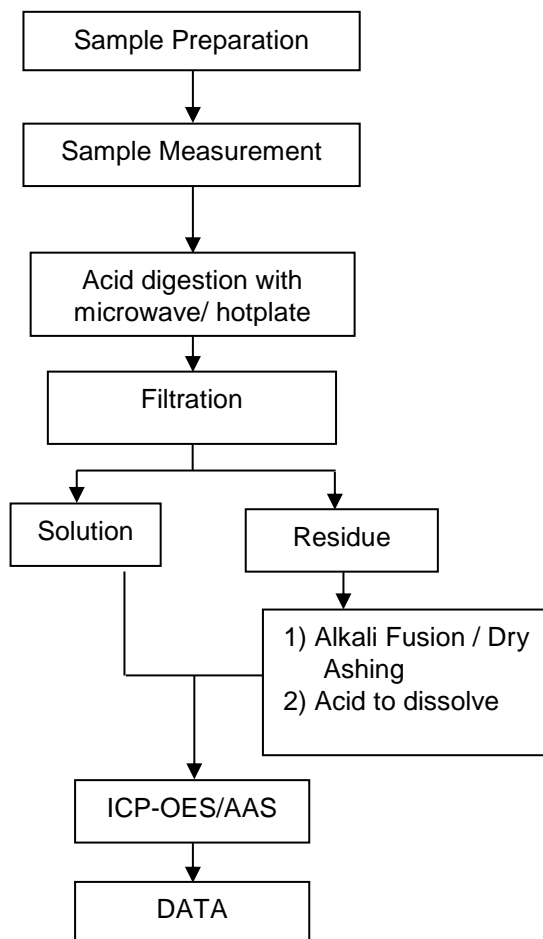
Date: Apr 06, 2023

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ATTACHMENTS

Elements Testing Flow Chart

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



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Shenzhen Branch Testing Center Chemical Laboratory

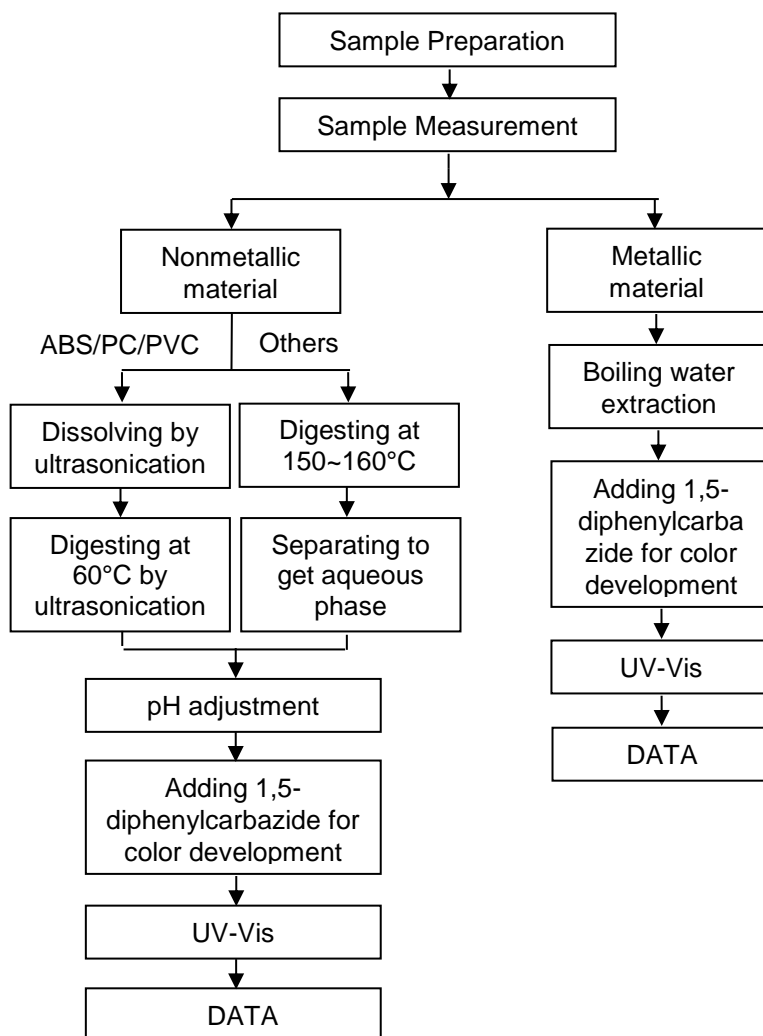
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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



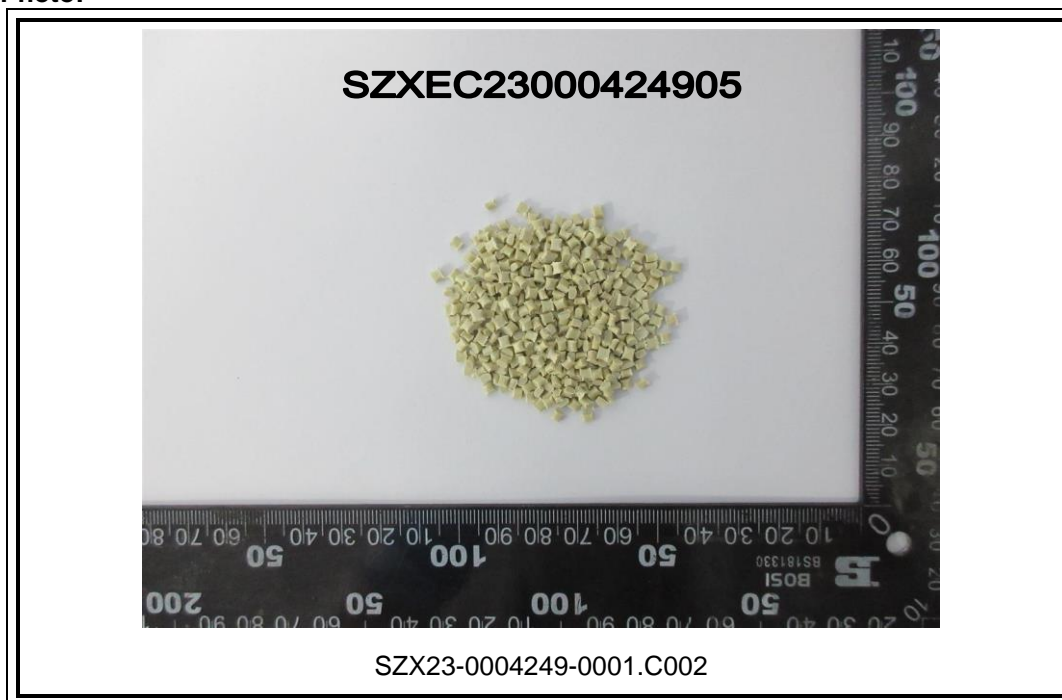
Test Report

No.: SZXEC23000424905

Date: Apr 06, 2023

Page 8 of 8

Sample Photo:



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*** End of Report ***



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Test Report

No.: SZXEC23000425807

Date: Apr 04, 2023

Page 1 of 5

Client Name: SHENZHEN FUGANG TECHNOLOGY CO.,LTD

Client Address: FLOOR 3, BUILDING 4, ZONE (A), XINHE XINXING INDUSTRIAL ZONE 9, FUHAI STREET, BAO 'AN DISTRICT, SHENZHEN CITY

Sample Name: Stainlesssteel

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

SGS Job No.: RP23-007227

Sample Receiving Date: Mar 29, 2023

Testing Period: Mar 29, 2023 ~ Apr 04, 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 and Hexavalent chromium | Pass |

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Fay

Fay Yuan

Approved Signatory

scan to see the report



0FF35290



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

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Test Report

No.: SZXEC23000425807

Date: Apr 04, 2023

Page 2 of 5

Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|-------------------|
| SN1 | A4 | SZX23-0004258-0001.C004 | Silver-gray 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 and Hexavalent chromium

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

| Test Item(s) | Limit | Unit(s) | MDL | A4 |
|-------------------------------|-------|--------------------|------|----|
| Cadmium(Cd) | 100 | mg/kg | 2 | ND |
| Lead(Pb) | 1000 | mg/kg | 2 | ND |
| Mercury(Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 0.10 | 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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Test Report

No.: SZXEC23000425807

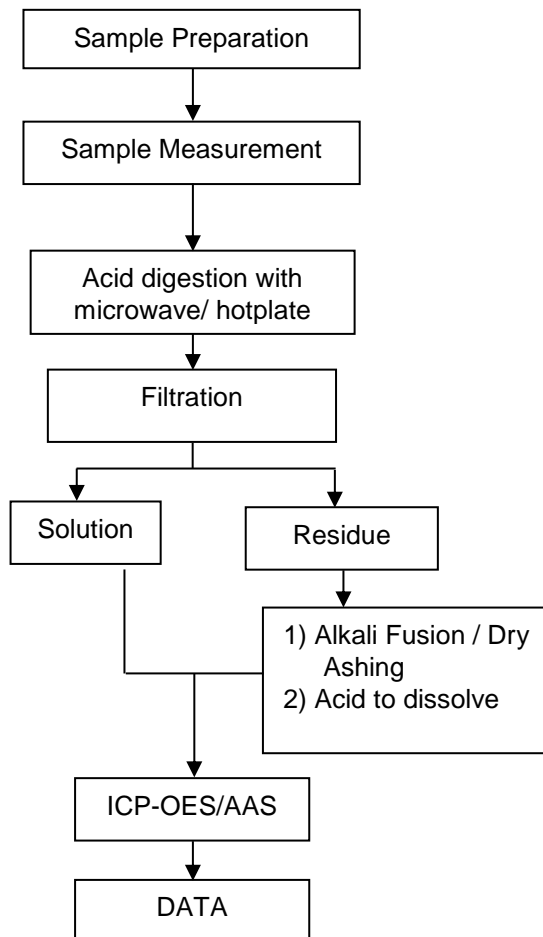
Date: Apr 04, 2023

Page 3 of 5

ATTACHMENTS

Elements Testing Flow Chart

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



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Shenzhen Branch Testing Center Chemical Laboratory

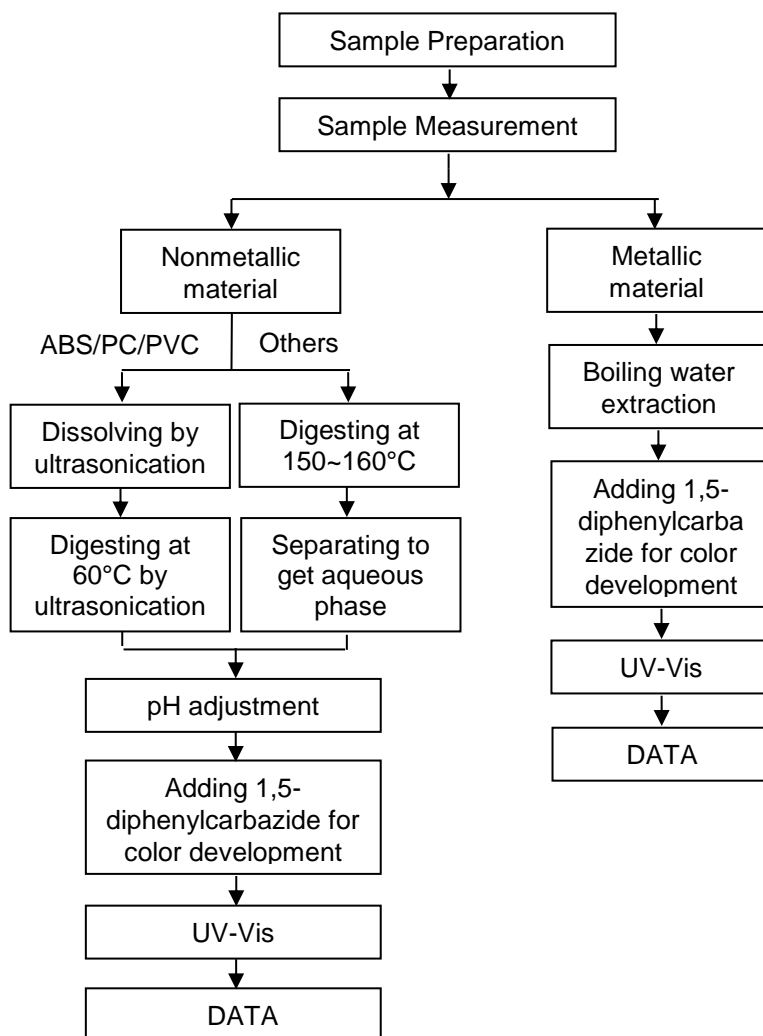
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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



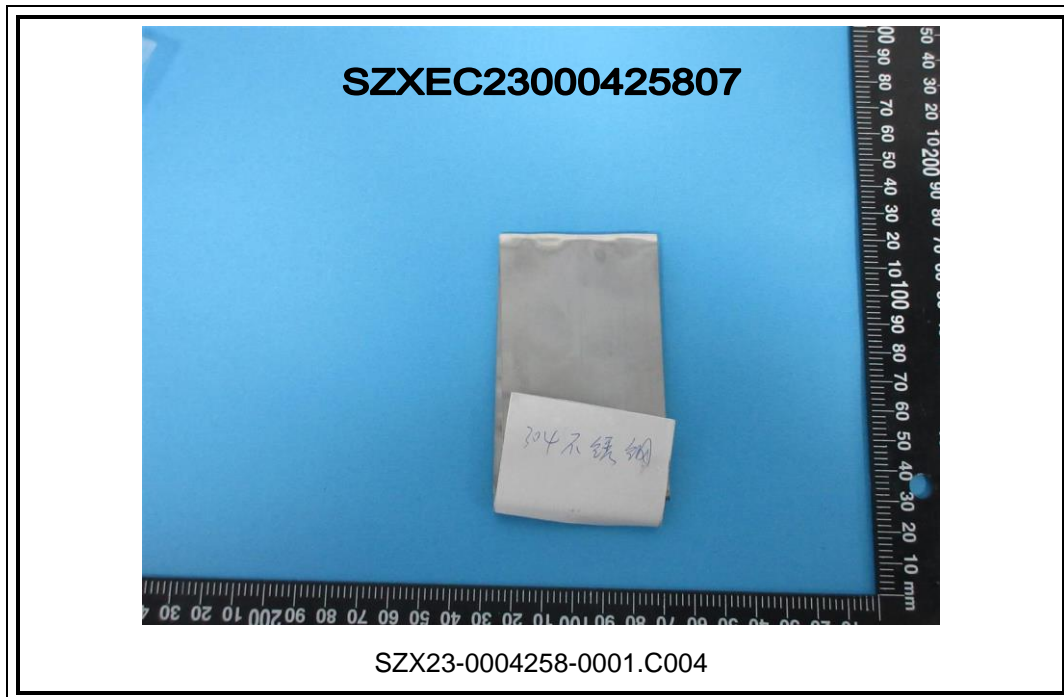
Test Report

No.: SZXEC23000425807

Date: Apr 04, 2023

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Sample Photo:



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Test Report

No.: SZXEC23000425803

Date: Apr 04, 2023

Page 1 of 5

Client Name: SHENZHEN FUGANG TECHNOLOGY CO.,LTD

Client Address: FLOOR 3, BUILDING 4, ZONE (A), XINHE XINXING INDUSTRIAL ZONE 5, FUHAI STREET, BAO 'AN DISTRICT, SHENZHEN CITY

Sample Name: Brass

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

SGS Job No.: RP23-007227

Sample Receiving Date: Mar 29, 2023

Testing Period: Mar 29, 2023 ~ Apr 04, 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 and Hexavalent chromium | Pass |

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

Fay

Fay Yuan
Approved Signatory

scan to see the report



2519816C



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

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Test Report

No.: SZXEC23000425803

Date: Apr 04, 2023

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Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|--------------|
| SN1 | A2 | SZX23-0004258-0001.C002 | Brassy 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 and Hexavalent chromium

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

| Test Item(s) | Limit | Unit(s) | MDL | A2 |
|-------------------------------|-------|--------------------|------|----|
| Cadmium(Cd) | 100 | mg/kg | 2 | ND |
| Lead(Pb) | 1000 | mg/kg | 2 | 56 |
| Mercury(Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 0.10 | 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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Test Report

No.: SZXEC23000425803

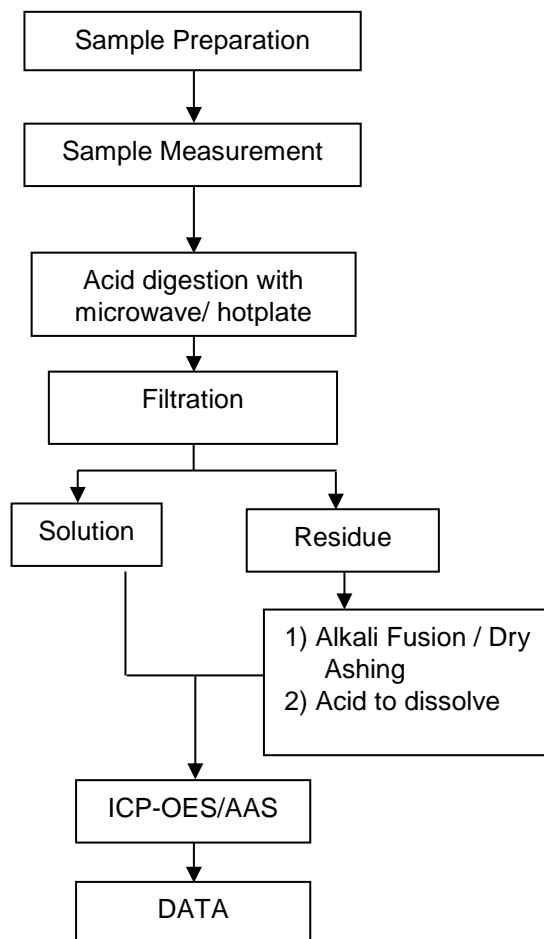
Date: Apr 04, 2023

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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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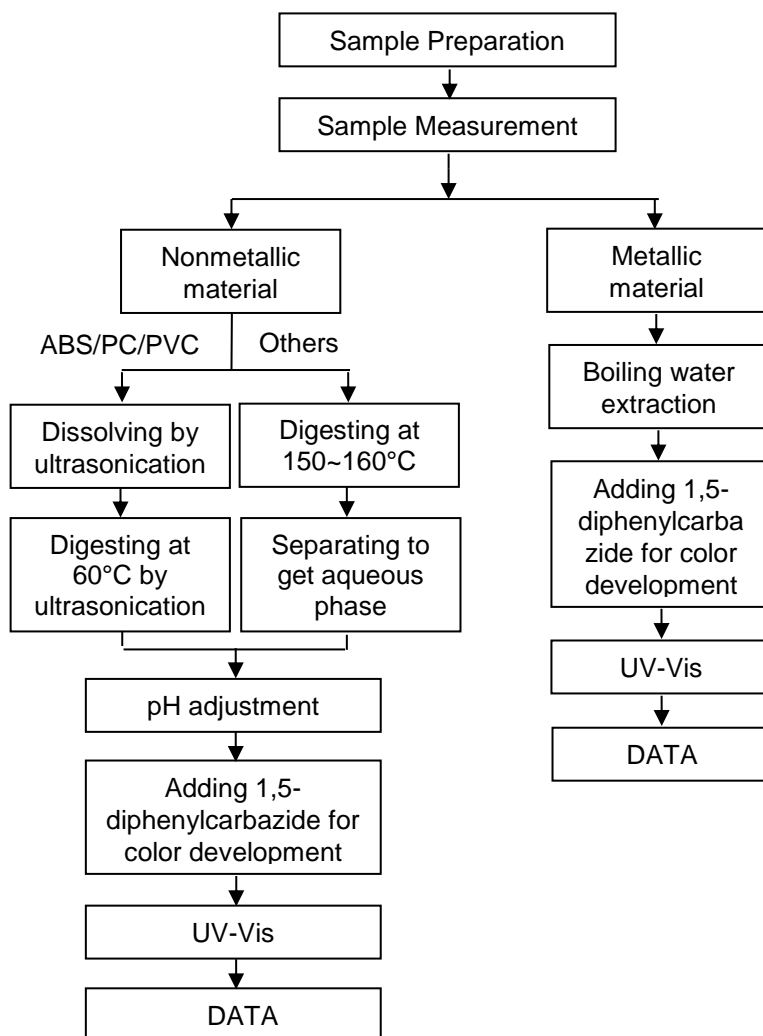
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



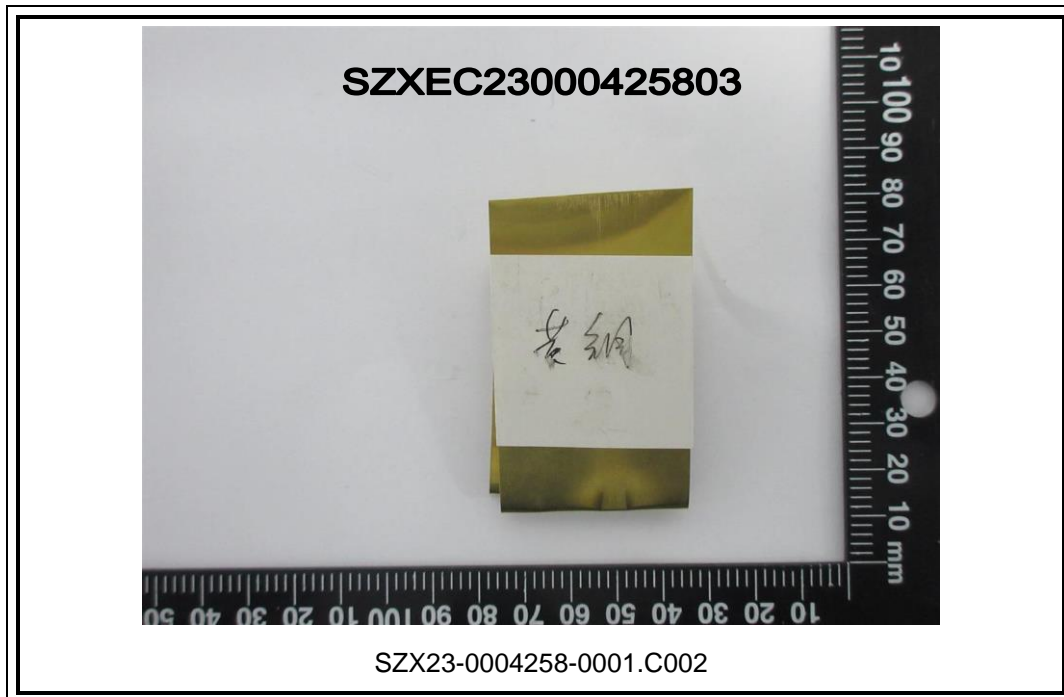
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Sample Photo:



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