

佐々木半田工業 株式会社  
〒143-0003 東京都大田区京浜島2-20-3

以下、顧客によって提供された試料詳細です: 4N 錫

SGS 参照番号 : SP21-000781-SH

品番 : 4N

主な成分/材料 : 錫

試料受領日 : 2021-01-11

試験期間 : 2021-01-11 - 2021-01-15

試験項目 : 顧客依頼による選択試験項目。

試験方法 : 次頁を参照。

試験結果 : 次頁を参照。

結論 : 提出されたサンプルのカドミウム、鉛、水銀、六価クロム、PBBs、PBDEs、DBP、BBP、DEHP、DIBP の試験を行った結果、RoHS 指令 2011/65/EU 規制の付録 II の改正指令 (EU) 2015/863 による制限値未満であった。

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
代表者署名

Sue Sheng

Sue Sheng 盛雯舒  
許可署名者



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試験結果:

サンプルの記述:

| 番号  | サンプル ID          | 状態   |
|-----|------------------|------|
| SN1 | SHA21-005867.002 | 銀色金属 |

備考

- (1) 1mg/kg = 0.0001%
- (2) MDL = 方法検出下限
- (3) ND = 未検出 (< MDL)
- (4) “-” = 未規制

RoHS 指令 2011/65/EU 付録 II 改正指令 (EU) 2015/863

試験方法:

IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 と IEC 62321-8:2017 を参照, ICP-OES, UV-Vis と GC-MS で分析する。

| 試験項目:           | 制限値  | 単位                 | MDL  | 002 |
|-----------------|------|--------------------|------|-----|
| カドミウム(Cd)       | 100  | mg/kg              | 2    | ND  |
| 鉛(Pb)           | 1000 | mg/kg              | 2    | 18  |
| 水銀 (Hg)         | 1000 | mg/kg              | 2    | ND  |
| 六価クロム(Cr(VI)) ▼ | -    | μg/cm <sup>2</sup> | 0.10 | ND  |
| PBBs の合計        | 1000 | mg/kg              | -    | ND  |
| モノブロモビフェニル      | -    | mg/kg              | 5    | ND  |
| ジブロモビフェニル       | -    | mg/kg              | 5    | ND  |
| トリブロモビフェニル      | -    | mg/kg              | 5    | ND  |
| テトラブロモビフェニル     | -    | mg/kg              | 5    | ND  |
| ペンタブロモビフェニル     | -    | mg/kg              | 5    | ND  |
| ヘキサブロモビフェニル     | -    | mg/kg              | 5    | ND  |
| ヘプタブロモビフェニル     | -    | mg/kg              | 5    | ND  |
| オクタブロモビフェニル     | -    | mg/kg              | 5    | ND  |
| ノナブロモビフェニル      | -    | mg/kg              | 5    | ND  |
| デカブロモビフェニル      | -    | mg/kg              | 5    | ND  |
| PBDEs の合計       | 1000 | mg/kg              | -    | ND  |
| モノブロモジフェニルエーテル  | -    | mg/kg              | 5    | ND  |
| ジブロモジフェニルエーテル   | -    | mg/kg              | 5    | ND  |
| トリブロモジフェニルエーテル  | -    | mg/kg              | 5    | ND  |
| テトラブロモジフェニルエーテル | -    | mg/kg              | 5    | ND  |
| ペンタブロモジフェニルエーテル | -    | mg/kg              | 5    | ND  |
| ヘキサブロモジフェニルエーテル | -    | mg/kg              | 5    | ND  |
| ヘプタブロモジフェニルエーテル | -    | mg/kg              | 5    | ND  |



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|                         |      |       |    |    |
|-------------------------|------|-------|----|----|
| オクタブロモジフェニルエーテル         | -    | mg/kg | 5  | ND |
| ノナブロモジフェニルエーテル          | -    | mg/kg | 5  | ND |
| デカブロモジフェニルエーテル          | -    | mg/kg | 5  | ND |
| フタル酸ジブチル (DBP)          | 1000 | mg/kg | 50 | ND |
| フタル酸ブチルベンジル(BBP)        | 1000 | mg/kg | 50 | ND |
| フタル酸ビス(2-エチルヘキシル)(DEHP) | 1000 | mg/kg | 50 | ND |
| フタル酸ジイソブチル(DIBP)        | 1000 | mg/kg | 50 | ND |

備考:

- (1) 制限値は RoHS 指令 2015/863 に準拠します。  
IEC 62321 シリーズは EN 62321 シリーズと同様である。  
[https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)
- (2) ▼ = a. Cr(VI)の濃度が  $0.13 \mu\text{g}/\text{cm}^2$  以上になる場合, Cr(VI)が検出され、陽性と判定する;  
b. Cr(VI)の濃度が  $\text{ND}(0.10 \mu\text{g}/\text{cm}^2 \text{以下})$  になる場合, Cr(VI)は検出されず、陰性と判定する;  
c. Cr(VI)の濃度が  $0.10 \mu\text{g}/\text{cm}^2 \sim 0.13 \mu\text{g}/\text{cm}^2$  になる場合, サンプル表面の相違により Cr(VI)の検出がされず、直接判定できなくなる可能性がある。

Cr(VI)の結果は試料の保管条件と製造日とは関係なく、試験当時に於ける試料の状態を表します。



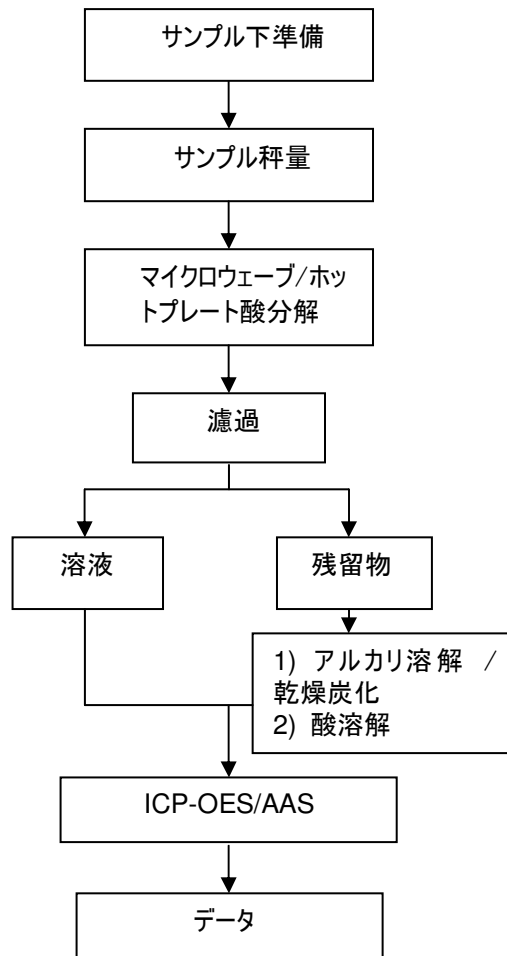
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付属書

## 元素(IEC62321) テストフローチャート

1) これらのサンプルは、必要条件として下記フローチャートに従い、完全溶解する。

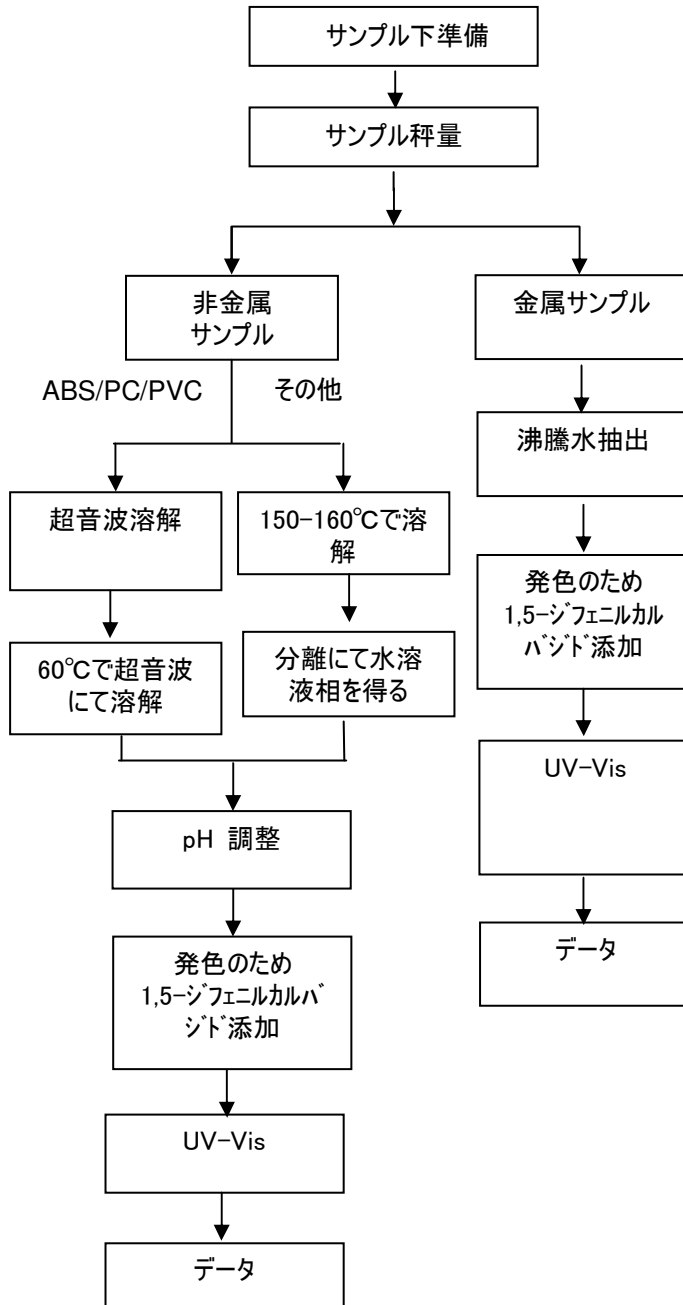


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六価クロムテストフローチャート



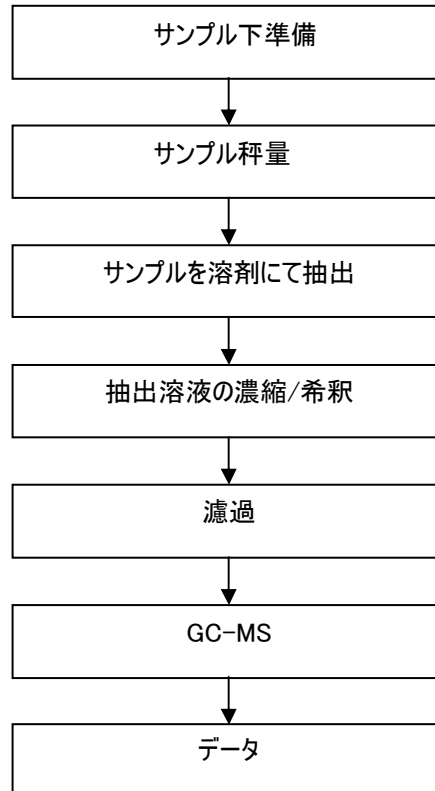
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PBBs/PBDEs テストフローチャート

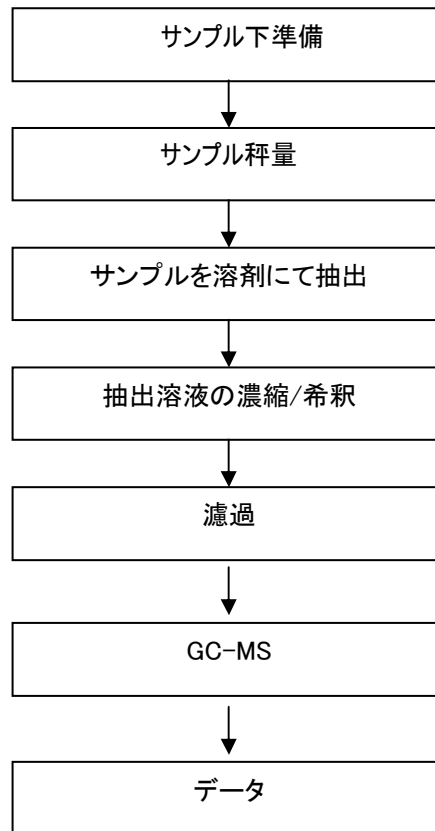


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### フタル酸エステルテストフローチャート



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