

检测报告 编号: CANEC2209914134 日期: 2022年06月15日 第1页,共15页

客户名称: 优耐铜材(苏州)有限公司

客户地址: 江苏省苏州市高新区金枫路567号

样品名称: 磷铜

型号: Ø14mm磷铜球

客户参考信息: Ø20mm/Ø 25mm/Ø 28mm/Ø 38mm /Ø 50mm 磷铜球

Ø 25mm 长/短磷铜角

磷铜圆盘

Ø3mm磷铜米

以上样品及信息由客户提供。

本报告取代检测报告CANEC2209914102

SGS工作编号: CP22-026415 - GZ

内部编号: 22655395

样品接收日期: 2022年05月17日

检测周期: 2022年05月17日 - 2022年05月30日

检测要求: 根据客户要求检测 检测方法: 请参见下一页 检测结果: 请参见下一页

结论: 基于所送样品进行的检测,镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯

醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯 (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))的检测结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值

要求。

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美己盃

Zm guan关正孟 批准签署人





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检测报告 编号: CANEC2209914134 日期: 2022年06月15日 第2页,共15页

检测结果:

检测样品描述:

样品编号 SGS样品ID 描述 SN1 铜色金属 CAN22-099141.001

备注:

(1) 1 mg/kg = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

检测方法: 参考IEC 62321-4:2013+A1:2017, 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。

| <u>检测项目</u> | <u>限值</u> | <u>单位</u> | <u>MDL</u> | <u>001</u> |
|----------------|-----------|-----------|------------|------------|
| 镉 (Cd) | 100 | mg/kg | 2 | ND |
| 铅 (Pb) | 1,000 | mg/kg | 2 | 8 |
| 汞 (Hg) | 1,000 | mg/kg | 2 | ND |
| 六价铬(Cr(VI))▼ | - | µg/cm² | 0.10 | ND |
| 多溴联苯之和(PBBs) | 1,000 | mg/kg | - | ND |
| 一溴联苯 | - | mg/kg | 5 | ND |
| 二溴联苯 | - | mg/kg | 5 | ND |
| 三溴联苯 | - | mg/kg | 5 | ND |
| 四溴联苯 | - | mg/kg | 5 | ND |
| 五溴联苯 | - | mg/kg | 5 | ND |
| 六溴联苯 | - | mg/kg | 5 | ND |
| 七溴联苯 | - | mg/kg | 5 | ND |
| 八溴联苯 | - | mg/kg | 5 | ND |
| 九溴联苯 | - | mg/kg | 5 | ND |
| 十溴联苯 | - | mg/kg | 5 | ND |
| 多溴二苯醚之和(PBDEs) | 1,000 | mg/kg | - | ND |
| 一溴二苯醚 | - | mg/kg | 5 | ND |
| 二溴二苯醚 | - | mg/kg | 5 | ND |
| 三溴二苯醚 | - | mg/kg | 5 | ND |
| 四溴二苯醚 | - | mg/kg | 5 | ND |
| 五溴二苯醚 | - | mg/kg | 5 | ND |
| | | | | |



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检测报告 编号: CANEC2209914134 日期: 2022年06月15日 第3页,共15页

| <u>检测项目</u> | <u>限值</u> | <u>单位</u> | <u>MDL</u> | <u>001</u> |
|-----------------------|-----------|-----------|------------|------------|
| 六溴二苯醚 | - | mg/kg | 5 | ND |
| 七溴二苯醚 | - | mg/kg | 5 | ND |
| 八溴二苯醚 | - | mg/kg | 5 | ND |
| 九溴二苯醚 | - | mg/kg | 5 | ND |
| 十溴二苯醚 | - | mg/kg | 5 | ND |
| 邻苯二甲酸二丁酯 (DBP) | 1000 | mg/kg | 50 | ND |
| 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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25

- (3) ▼=a. 当六价铬的浓度高于0.13 µg/cm²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 µg/cm²)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 μg/cm²与0.13 μg/cm²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检测时样品含六 价铬的状态。

卤素

检测方法: 参考EN 14582:2016, 用 IC分析。

| 检测项目 | <u>单位</u> | <u>MDL</u> | <u>001</u> |
|--------|-----------|------------|------------|
| 氟 (F) | mg/kg | 50 | ND |
| 氯 (CI) | mg/kg | 50 | ND |
| 溴 (Br) | mg/kg | 50 | ND |
| 碘 (I) | mg/kg | 50 | ND |

元素分析

SGS内部方法(GZTC CHEM-TOP-009-01,参考EPA 3050B:1996),采用ICP-OES进行分析。 检测方法:



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检测报告 编号: CANEC2209914134 日期: 2022年06月15日 第4页,共15页

检测项目 单位 **MDL** 001 铍 (Be) mg/kg 5 ND 锑 (Sb) mg/kg 10 ND

六溴环十二烷(HBCDD)

检测方法: SGS 内部方法(GZTC CHEM-TOP-073, 参考EPA 3550C:2007), 采用GC-MS进行分析。

| <u>检测项目</u> | CAS NO. | <u>单位</u> | <u>MDL</u> | <u>001</u> |
|---------------------------------|-------------|-----------|------------|------------|
| 六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, | 25637-99-4 | mg/kg | 10 | ND |
| β-HBCDD, γ-HBCDD) | 3194-55-6 | | | |
| | 134237-50-6 | | | |
| | 134237-51-7 | | | |
| | 134237-52-8 | | | |

多环芳香烃

参考AfPS GS 2019:01 PAK 检测,采用 GC-MS进行分析。 检测方法:

| <u>检测项目</u> | CAS NO. | <u>单位</u> | <u>MDL</u> | <u>001</u> |
|----------------------|----------|-----------|------------|------------|
| 萘 (NAP) | 91-20-3 | mg/kg | 0.1 | ND |
| 菲 (PHE) | 85-01-8 | mg/kg | 0.1 | ND |
| 蒽 (ANT) | 120-12-7 | mg/kg | 0.1 | ND |
| 荧蒽 (FLT) | 206-44-0 | mg/kg | 0.1 | ND |
| 芘 (PYR) | 129-00-0 | mg/kg | 0.1 | ND |
| 苯并(a)蒽 (BaA) | 56-55-3 | mg/kg | 0.1 | ND |
| 崫 (CHR) | 218-01-9 | mg/kg | 0.1 | ND |
| 苯并(b)荧蒽 (BbF) | 205-99-2 | mg/kg | 0.1 | ND |
| 苯并(j)荧蒽 (BjF) | 205-82-3 | mg/kg | 0.1 | ND |
| 苯并 (k)荧蒽 (BkF) | 207-08-9 | mg/kg | 0.1 | ND |
| 苯并(a)芘 (BaP) | 50-32-8 | mg/kg | 0.1 | ND |
| 苯并(e)芘 (BeP) | 192-97-2 | mg/kg | 0.1 | ND |
| 茚苯(1,2,3-c,d)芘 (IPY) | 193-39-5 | mg/kg | 0.1 | ND |
| 二苯并(a,h)蒽(DBA) | 53-70-3 | mg/kg | 0.1 | ND |
| 苯并(g,h,i) | 191-24-2 | mg/kg | 0.1 | ND |
| 苊烯(ANY) | 208-96-8 | mg/kg | 0.1 | ND |
| 苊(萘嵌戊烷) (ANA) | 83-32-9 | mg/kg | 0.1 | ND |
| 芴 (FLU) | 86-73-7 | mg/kg | 0.1 | ND |



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日期: 2022年06月15日

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 检测项目
 CAS NO.
 单位
 MDL
 001

 7项多环芳香烃总和[苊烯(ANY),苊(萘嵌戊烷) (ANA),芴
 mg/kg
 ND

(FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)] 18项多环芳香烃总和

- mg/kg - ND

客户要求

| 19 | 1 类 | 2 类 | | 3 | 类 |
|--|--|---|--------------|-----------------------------|--------------|
| 参数 (mg/kg) | 设计意图为放入口中的材料,或与皮肤长期接触(超过30秒)的材料用于-2009/48/EC定义 | 不属于第 1 类,设计意图或 可预见 ^d 与皮肤长期接触 (超过 30 秒)或短期重复 接触 °的材料 | | 不属于第1和 图或可预见与 (不超过30利 | 皮肤短期接触 |
| | 的玩具,或 -供3岁以下儿童 ^{a,b} 使用。 | a.供儿童 使用的产品 | b.其他产品 | a.供儿童 使用的产品 | b.其他产品 |
| 苯并(a)芘 (BaP) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并(e)芘 (BeP) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并(a)蒽 (BaA) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并(b)荧蒽 (BbF) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并(j)荧蒽 (BjF) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并 (k)荧蒽 (BkF) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 䓛 (CHR) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 二苯并(a,h)蒽 (DBA) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并(g,h,i)花(二萘嵌苯) (BPE) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 茚苯(1,2,3-c,d)芘 (IPY) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT),苊烯 (ANY),苊(萘嵌戊烷) (ANA),芴 (FLU),7 PAH 之和 | <1 (总和) | < 5 (总和) | < 10 (总和) | < 20 (总和) | < 50 (总和) |
| 萘 (NAP) | < 1 | < | 2 | < 1 | 10 |
| 18 PAH之和 | <1 | < 5 | < 10 | < 20 | < 50 |

注释:

- a儿童是指法定年龄未满 14 周岁的人。
- ▷供儿童使用包括儿童的主动接触或被动接触。
- ° "短期重复接触"的定义摘自 REACH 附录 XVII 第 50 条修正案 ((EC) No. 1272/2013)。
- d根据德国产品安全法(ProdSG)(第一章第 2 条第 28 款)的定义,"可预见的使用"是指将产品投放市场的人无意但可以合理预见的方式使用产品。

备注: 材料的分类参考 2020 年 4 月 10 日发布的 AfPS GS 2019:01 PAK 标准。苊烯(ANY)、苊(萘嵌戊烷) (ANA)和 芴(FLU)不在 AfPS GS 2019:1 PAK 的范围内,但是结合其在 AfPS GS 2014:01 PAK 的范围内,以及考虑到 LFGB 章节 30 的产品安全要求,推荐进行测试。

全氟辛酸(PFOA)及其盐 & 全氟辛烷磺酸 (PFOS)及其衍生物

检测方法: 参考CEN/TS 15968:2010,采用LC-MS或LC-MS/MS进行分析。



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| <u>检测项目</u> | CAS NO. | <u>单位</u> | <u>MDL</u> | <u>001</u> |
|----------------------------|------------|-----------|------------|------------|
| 全氟辛酸 (PFOA)及其盐+ | 335-67-1 | mg/kg | 10.000 | ND |
| 全氟辛烷磺酸 (PFOS) [^] | 1763-23-1 | mg/kg | 10.000 | ND |
| 全氟辛基磺酰胺(PFOSA) | 754-91-6 | mg/kg | 10.000 | ND |
| N-甲基全氟辛烷磺酰胺(MeFOSA) | 31506-32-8 | mg/kg | 10.000 | ND |
| N-乙基全氟辛烷磺酰胺(EtFOSA) | 4151-50-2 | mg/kg | 10.000 | ND |
| 2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE) | 24448-09-7 | mg/kg | 10.000 | ND |
| 2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE) | 1691-99-2 | mg/kg | 10.000 | ND |
| 全氟辛烷磺酸 (PFOS)及其衍生物 | - | mg/kg | - | ND |

备注:

(1) + PFOA 及其盐包含PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) 和 APFO (CAS No.: 3825-26-1);

(2) ^ 全氟辛烷磺酸 (PFOS)包含 PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA (CAS No.:251099-16-8) 和POSF (CAS No.: 307-35-7)

C10~C13 氯代烃(短链氯化石蜡)(SCCPs)和C14~C17 氯代烃(中链氯化石蜡)(MCCPs)

检测方法: 参考ISO 18219-1:2021 & ISO 18219-2:2021, 采用GC-NCI-MS进行分析。

| <u>检测项目</u> | CAS NO. | <u>单位</u> | <u>MDL</u> | <u>001</u> |
|----------------------------|--------------|-----------|------------|------------|
| C10~C13 氯代烃(短链氯化石蜡)(SCCPs) | 85535-84-8和其 | mg/kg | 50 | ND |
| | 它 | | | |
| C14~C17 氯代烃(中链氯化石蜡)(MCCPs) | 85535-85-9和其 | mg/kg | 50 | ND |
| | 它 | | | |

本报告更新了型号,客户参考信息。

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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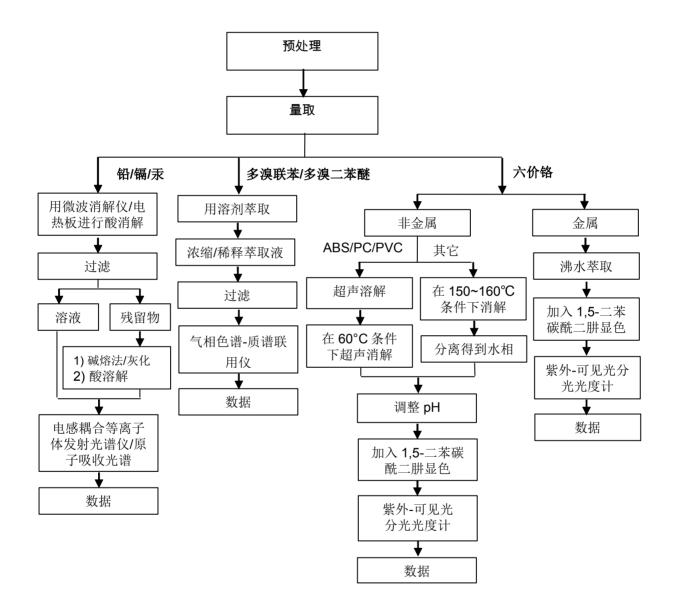
编号: CANEC2209914134

日期: 2022年06月15日 第7页,共15页

附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 检测流程图

1) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚检测除外)。





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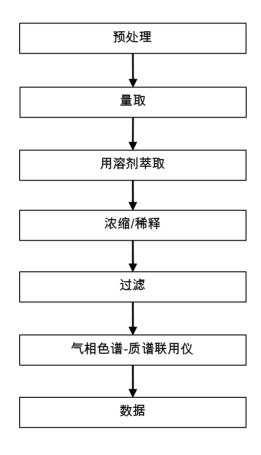


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附件

Phthalates 检测流程图





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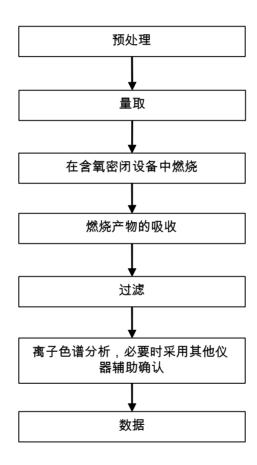


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附件

Halogen 检测流程图





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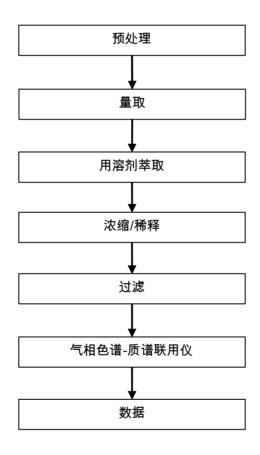


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HBCDD 检测流程图





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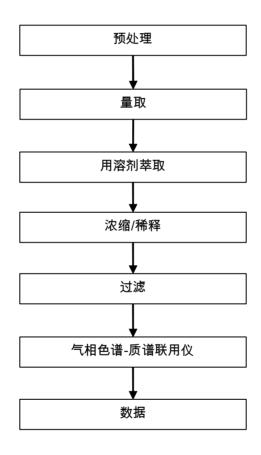


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PAHs 检测流程图





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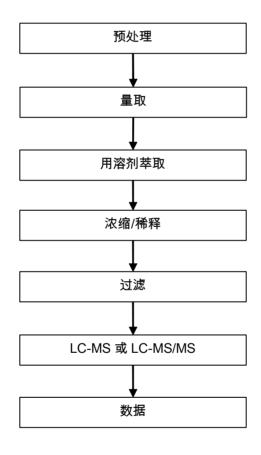


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PFOA / PFOS 检测流程图





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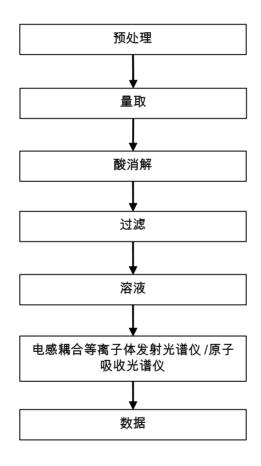


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元素检测流程图





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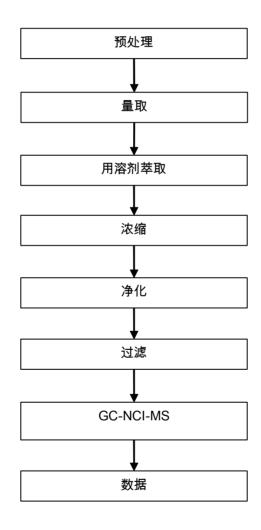


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SCCP/MCCP/LCCP 检测流程图





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