

**检测报告** 编号: CANEC2209914118 日期: 2022年06月03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: 硫酸铜型号: 化学镀级

客户参考信息: 电镀级硫酸铜晶体

以上样品及信息由客户提供。

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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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Annie Ren任婷 批准签署人



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检测报告 编号: CANEC2209914118 日期: 2022年06月03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 蓝色颗粒 CAN22-099141.009

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 62321-7-2:2017, 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>009</u>
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	ND
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	1,000	mg/kg	8	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: CANEC2209914118 日期: 2022年06月03日 第3页,共15页

检测项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>009</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)	1,000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND
邻苯二甲酸二(2-乙基已基)酯(DEHP)	1,000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1,000	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

(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。

#### 卤素

参考EN 14582:2016,用 IC分析。 检测方法:

检测项目	<u>单位</u>	<u>MDL</u>	<u>009</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

检测方法: SGS内部方法(GZTC CHEM-TOP-004-01,参考EPA 3052: 1996),采用ICP-OES进行分析。

检测项目 单位 **MDL** 009 锑 (Sb) ND 10 mg/kg



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检测报告 编号: CANEC2209914118 日期: 2022年06月03日 第4页,共15页

#### 邻苯二甲酸酯

检测方法: 参考 IEC 62321-8:2017, 采用 GC-MS 进行分析。

<u>检测项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	009
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /	%(w/w)	0.005	ND
	68515-49-1			
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%(w/w)	0.005	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%(w/w)	0.005	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>009</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

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

<u>检测项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>009</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>(b)</b> 荧蒽 <b>(BbF)</b>	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 <b>(e)</b> 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



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检测项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>009</u>
二苯并(a,h)蒽(DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)菲(二萘嵌苯) (BPE)	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
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

***	1 类	2 3	t.	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, 可预见《与皮服 (超过30秒) 接触。的材料	长期接触	不属于第1和 图或可预见与 (不超过30利	皮肤短期接触
	1-2003/46/EC 定入 的玩具,或 -供3岁以下儿童 <sup>a,b</sup> 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
莡 (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	< <b>1</b> (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	<	2	< '	10
18 PAH之和	<1	< 5	< 10	< 20	< 50

- a 儿童是指法定年龄未满 14 周岁的人。
- b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)。
- 《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。



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## 全氟辛酸(PFOA)及其盐 & 全氟辛烷磺酸 (PFOS)及其衍生物

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

<u>检测项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	009
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-Aq (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>009</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			

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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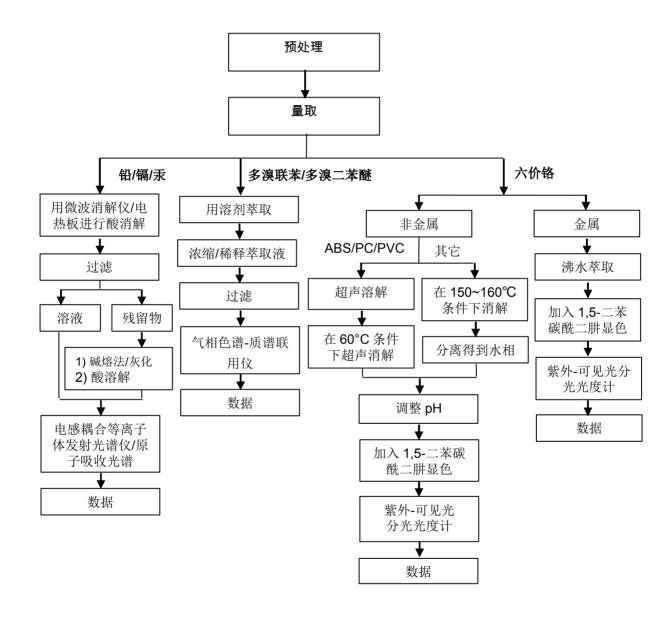
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### 附件

## 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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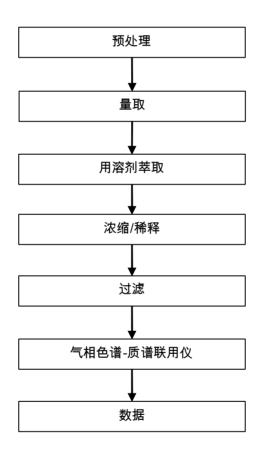


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## Phthalates 检测流程图





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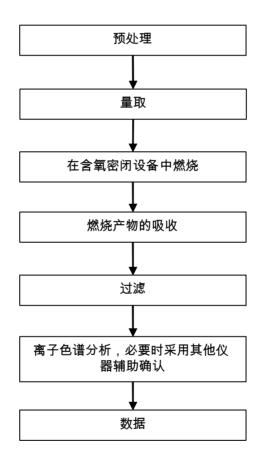


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## Halogen 检测流程图





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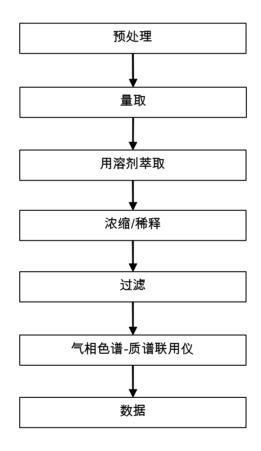


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## HBCDD 检测流程图





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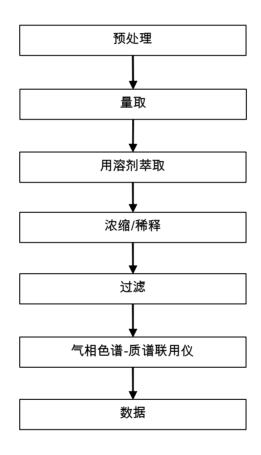


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## PAHs 检测流程图





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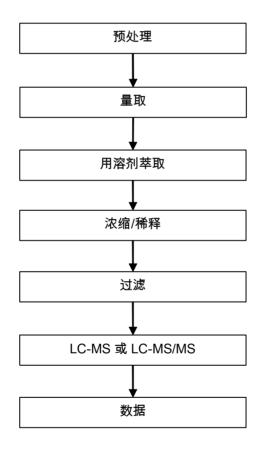


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## PFOA / PFOS 检测流程图





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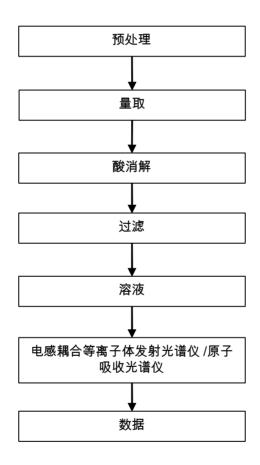


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## 元素检测流程图





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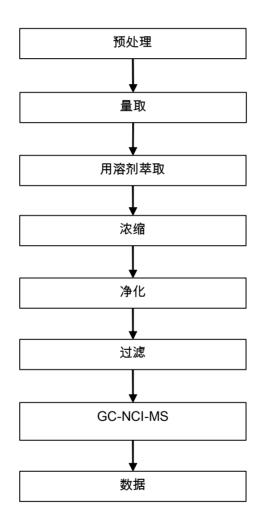


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## SCCP/MCCP/LCCP 检测流程图





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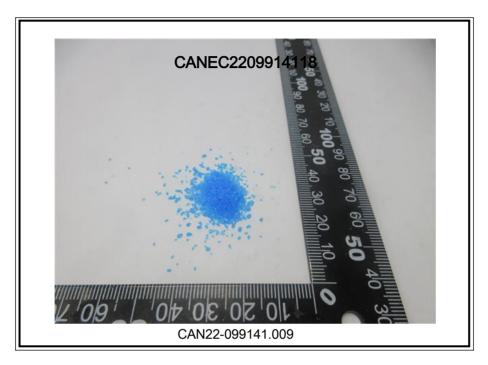
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