

检测报告 编号: CANEC2209914130 日期: 2022年06月02日 第1页,共11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: 焦磷酸铜

以上样品及信息由客户提供。

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

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 结论:

> 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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陈江梨

Allie Chen 陈江梨 批准签署人





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检测结果:

检测样品描述:

样品编号 SGS样品ID 描述 SN1 蓝色粉末 CAN22-099141.015

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.

检测项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>015</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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<u>检测项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>015</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

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>015</u>
氟 (F)	mg/kg	50	ND
氯 (CI)	mg/kg	50	67
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

邻苯二甲酸酯

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

检测项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>015</u>
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 /	%(w/w)	0.005	ND
	68515-48-0			
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



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<u>检测项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>015</u>
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%(w/w)	0.005	ND
邻苯二甲酸二异戊酯 (DIPP)	605-50-5	%(w/w)	0.005	ND
邻苯二甲酸正戊基异戊基酯 (nPIPP)	776297-69-9	%(w/w)	0.005	ND
邻苯二甲酸二戊酯 (DPENP/ DnPP)	131-18-0	%(w/w)	0.005	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	%(w/w)	0.005	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	%(w/w)	0.005	ND
邻苯二甲酸二甲酯 (DMP)	131-11-3	%(w/w)	0.005	ND
邻苯二甲酸二(C6-8支链)烷基酯(富C7) (DIHP)	71888-89-6	%(w/w)	0.005	ND
邻苯二甲酸二(C7-11支链与直链)烷基(醇)酯 (DHNUP)	68515-42-4	%(w/w)	0.005	ND
邻苯二甲酸二苯酯 (DPhP)	84-62-8	%(w/w)	0.005	ND
邻苯二甲酸二(支链与直链)戊基酯 (DPP)	84777-06-0	%(w/w)	0.005	ND

六溴环十二烷(HBCDD)

SGS 内部方法(GZTC CHEM-TOP-073,参考EPA 3550C:2007), 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>015</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			

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>	<u>015</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);



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(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)

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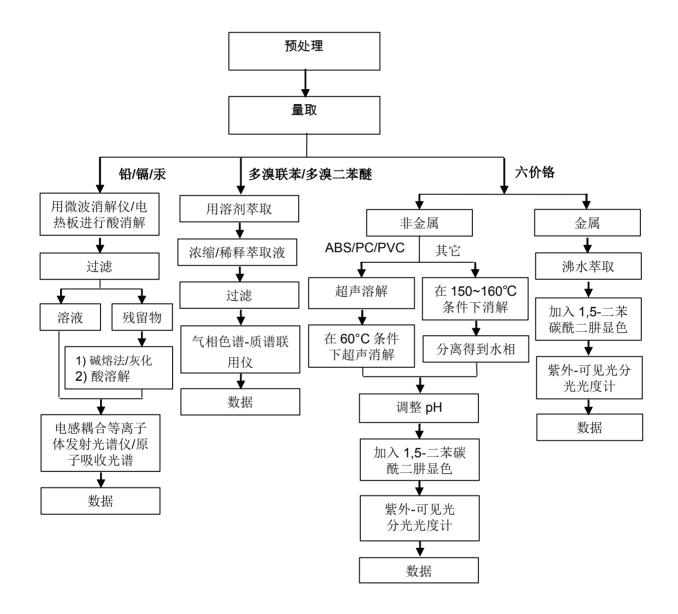
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附件

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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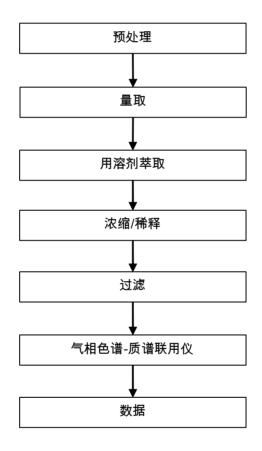


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附件

Phthalates 检测流程图





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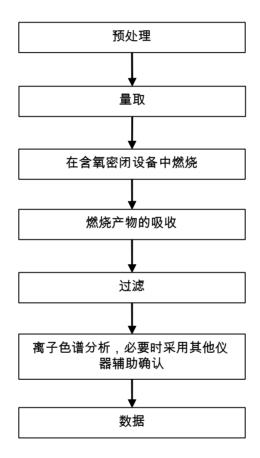


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附件

Halogen 检测流程图





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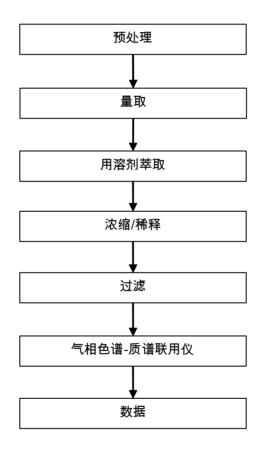


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附件

HBCDD 检测流程图





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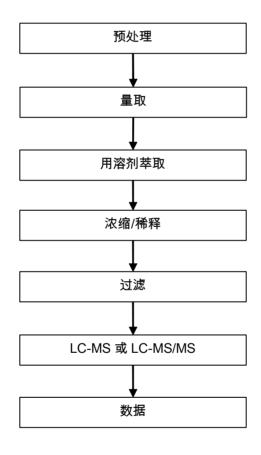


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附件

PFOA / PFOS 检测流程图





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