

检测报告 编号: CANEC23001444708 日期: 2023年04月17日 第1页,共17页

客户名称: 富华德电子(东莞)有限公司

客户地址: 中国广东省东莞市长安镇乌沙兴发南路新星工业园

样品名称: 超级电容器

型号: EDLC

以上样品及信息由客户提供。

SGS 工作编号: CP23-015731

样品接收时间: 2023年04月04日

检测周期: 2023年04月04日~2023年04月13日

检测要求: 根据客户要求检测

检测方法: 见后续页。 检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、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)	符合
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬	符合
全氟辛酸(PFOA)及其盐和全氟辛烷磺酸(PFOS)及其衍生物	见检测结果
卤素	见检测结果
元素分析	见检测结果

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叶士龙

Arsene Ye 叶士龙 批准签署人





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检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	CAN23-0014447-0001.C001	带液体的白色纸片
SN2	A2	CAN23-0014447-0001.C002	黑色橡胶
SN3	А3	CAN23-0014447-0001.C003	带白色印字的绿色塑胶套管
SN4	A4	CAN23-0014447-0001.C004	黑色涂层
SN5	A5	CAN23-0014447-0001.C005	灰色金属铝箔
SN6	A6	CAN23-0014447-0001.C006	银色金属引脚
SN7	A7	CAN23-0014447-0001.C007	银色金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检测限
- (3) ND = 未检出(< MDL)
- (4) "-" = 未规定

<u>欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、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-乙基已基)酯 (DEHP)和邻苯二甲酸二异丁酯(DIBP)</u>

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, 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	限值	单位	MDL	A1	A2	A3
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	18	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	1	ND	ND	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND	ND	ND
二溴联苯(DiBB)	-	mg/kg	5	ND	ND	ND
三溴联苯(TriBB)	-	mg/kg	5	ND	ND	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND	ND	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND	ND	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND	ND	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND	ND	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND	ND	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND	ND	ND



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检测项目	限值	单位	MDL	A1	A2	A3
十溴联苯(DecaBB)	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	ı	ND	ND	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND	ND	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND	ND	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND	ND	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND	ND	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND	ND	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND	ND	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND	ND	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND	ND	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND	ND	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND	ND

检测项目	限值	单位	MDL	A4
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	ı	ND
一溴联苯(MonoBB)	•	mg/kg	5	ND
二溴联苯(DiBB)	•	mg/kg	5	ND
三溴联苯(TriBB)	•	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	•	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	1	mg/kg	5	ND
十溴联苯(DecaBB)	1	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	ı	ND
一溴二苯醚(MonoBDE)	ı	mg/kg	5	ND
二溴二苯醚(DiBDE)	1	mg/kg	5	ND
三溴二苯醚(TriBDE)	ı	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	A4
十溴二苯醚(DecaBDE)	-	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。
- (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。

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, 和 IEC 62321-7-1:2015, 采用 ICP-OES 和 UV-Vis 进行分析。

检测项目	限值	单位	MDL	A5	A6	A7
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	10	ND	6
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND	ND	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。
- (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 $\mu g/cm^2$ 与0.13 $\mu g/cm^2$ 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测试时样品含六价铬的状态。

全氟辛酸(PFOA)及其盐和全氟辛烷磺酸(PFOS)及其衍生物

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

检测项目	CAS No.	单位	MDL	A1	A2	А3
全氟辛酸 (PFOA)及其盐*	-	mg/kg	0.010	ND	ND	ND
全氟辛烷磺酸(PFOS)及其衍生物	-	mg/kg	-	ND	ND	ND
全氟辛烷磺酸 (PFOS)及其盐*	-	mg/kg	0.010	ND	ND	ND
N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND	ND	ND
N-甲基全氟辛烷磺酰胺 (N-	31506-32-8	mg/kg	0.010	ND	ND	ND
MeFOSA)	31300-32-0	ilig/kg	0.010	שאו	שמו	שאו



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检测项目	CAS No.	单位	MDL	A1	A2	A3
2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND	ND	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND	ND	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.010	ND	ND	ND

检测项目	CAS No.	单位	MDL	A4
全氟辛酸 (PFOA)及其盐*	-	mg/kg	0.010	ND
全氟辛烷磺酸(PFOS)及其衍生物	-	mg/kg	1	ND
全氟辛烷磺酸 (PFOS)及其盐*	-	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-甲基全氟辛烷磺酰胺 (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (N- MeFOSE)	24448-09-7	mg/kg	0.010	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.010	ND

备注:

- (1) 全氟辛酸 (PFOA)及其盐*包括PFOA(CAS No. 335-67-1)、APFO(CAS No. 3825-26-1)、PFOA-Na (CAS No. 335-95-5)、PFOA-K(CAS No. 2395-00-8)、PFOA-Ag(CAS No. 335-93-3)和PFOA-F(CAS No. 335-66-0)。全氟辛酸 (PFOA)的结果用于表示全氟辛酸 (PFOA)及其盐。
- (2) 全氟辛烷磺酸 (PFOS)及其盐*包括全氟辛烷磺酸(CAS No.1763-23-1)、POSF(CAS No. 307-35-7)、PFOS-K(CAS No. 2795-39-3)、PFOS-NH4(CAS No. 29081-56-9)、PFOS-N(C₁₀H₂₁)₂(CH₃)₂(CAS No. 251099-16-8)、PFOS-NH₂(C₂H₄OH)₂(CAS No. 70225-14-8)、PFOS-Li(CAS No. 29457-72-5)、PFOS-N(C₂H₅)₄(CAS No. 56773-42-3)和PFOS-Na(CAS No. 4021-47-0)。全氟辛烷磺酸的结果用于表示全氟辛烷磺酸及其盐。

卤素

检测方法: 参考 EN 14582:2016,采用 IC 进行分析。

检测项目	单位	MDL	A1	A2	A3
氟 (F)	mg/kg	50	63653	317	ND
氯 (CI)	mg/kg	50	ND	ND	ND
溴 (Br)	mg/kg	50	ND	ND	ND
碘 (I)	mg/kg	50	ND	ND	ND

检测项目	单位	MDL	A4
氟 (F)	mg/kg	50	54422
氯 (CI)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND

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检测项目	单位	MDL	A4
碘 (I)	mg/kg	50	ND

元素分析

检测方法: 参考 US EPA 3050B:1996,采用 ICP-OES/AAS 进行分析。

检测项目	单位	MDL	A5	A6	A7
铍(Be)	mg/kg	5	ND	ND	ND

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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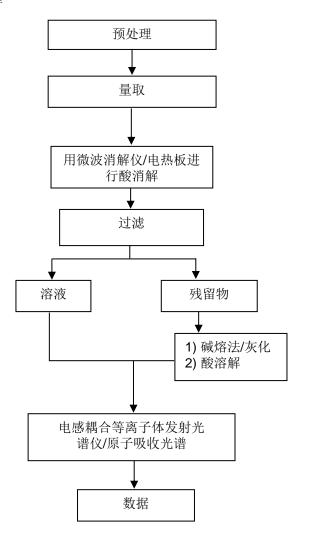
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附件

元素检测流程图

样品按照下述流程被完全消解





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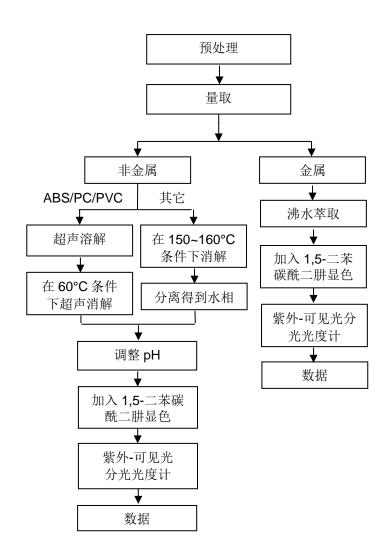


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六价铬检测流程图





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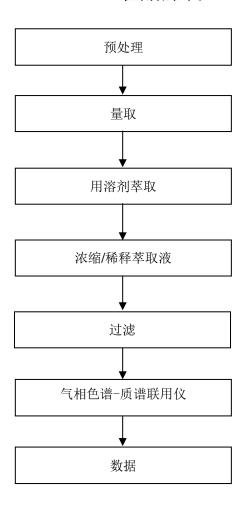


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PBBs/PBDEs 检测流程图





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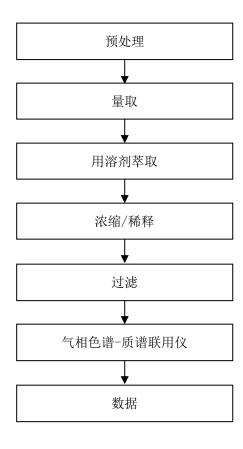


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Phthalates 检测流程图





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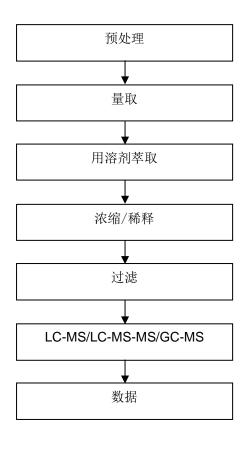


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PFASs/ PFOS/PFOA 检测流程图





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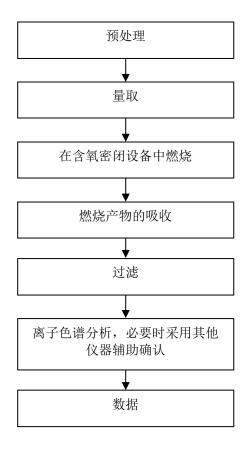


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卤素检测流程图





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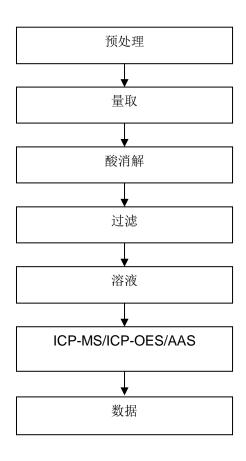


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元素检测流程图





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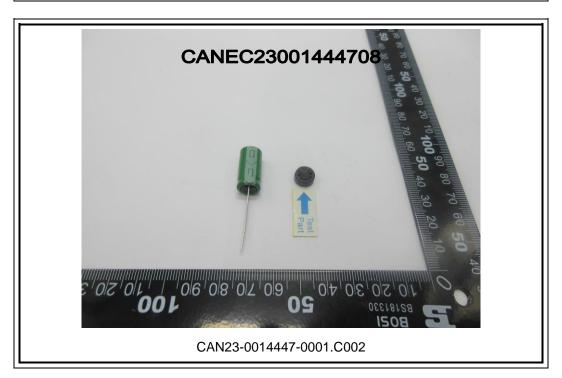
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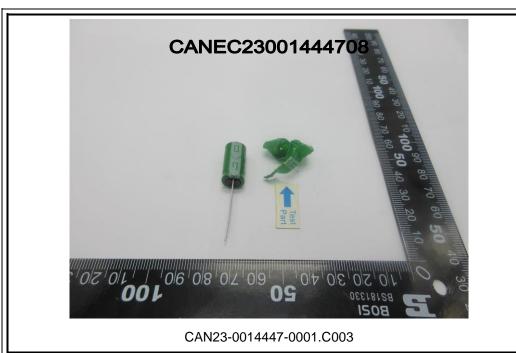
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