



**测试报告(Test Report)** 报告编号(NO.): MRCBRP5G2924867D3 签发日期(Issued Date): 2023-03-30 Page 1 of 12

委托单位 Applicant: 广西东来新能源科技有限公司  
Guangxi Donglai New Energy Technology Co. LTD  
地址 Address: 广西壮族自治区崇左市大新县桃城镇迎宾大道延长线 (星光和乐城南侧)  
(South of Xingguang Hele City) Extension of Yingbin Avenue,  
Taocheng Town, Daxin County, Chongzuo City, Guangxi  
Zhuang Autonomous Region

委托单位提供样品信息如下:

The following sample(s) was/were submitted and identified on behalf of the client as:

样品名称 Sample Name: 圆柱形锂离子电芯 Cylindrical Li-ion Cell  
样品型号 Sample Model: 18650-2200mAh (测试型号 Test Model)、18650-1800mAh、  
18650-2000mAh、18650-2500mAh、18650-2600mAh、  
18650-3000mAh、18650-3200mAh、18650-1500mAh-5C、  
18650-2500mAh-3C、18650-1500mAh-10C、18650-1800mAh-5C、  
18650-2000mAh-3C、18650-2000mAh-5C、18650-2000mAh-10C、  
18650-2200mAh-5C、18650-2600mAh-3C、18650-2850mAh-3C、  
21700-4000mAh、21700-4500mAh、21700-4800mAh、  
21700-5000mAh、26650-4000mAh、26650-4500mAh、  
26650-4800mAh、26650-5000mAh

零部件名称 Part Name: 见清单 See the List

样品接收日期 Sample Received Date: 2023-03-09  
样品测试日期 Testing Period: 2023-03-09 ~ 2023-03-30

参考要求: RoHS 2011/65/EU 及修订指令(EU)2015/863 附录 II 的要求  
Reference Requested: RoHS Directive 2011/65/EU & (EU)2015/863 Annex II

参考方法: 1. 拆分申请者提供的成品, 并评估样品和相关测试报告  
Reference Method: Review was performed for the samples disjonted from the  
submitted articles and the related test reports submitted by the  
Applicant  
2. 仅对本报告照片中的样品进行下列测试分析  
Tests was performed for the samples indicated by the photos  
in the report.  
(1) IEC 62321-3-1:2013,用 X 射线荧光分析仪器进行筛选  
IEC 62321-3-1:2013,Screening by XRF Spectroscopy  
(2) 化学测试方法 Wet Chemical Test Method  
3. IEC 62321-8 Edition 1.0:2017 的方法,  
用气相色谱质谱联用仪测定邻苯二甲酸酯类的含量  
IEC 62321-8 Edition 1.0:2017 method,  
Phthalates Analysis is performed by GC-MS

测试结果 Test Result: 请参见下页 Please refer to next page(s)

批准人 Approved by: 毛祖青



微信扫一扫, 使用小程序



小程序扫一扫, 在线验证

Code: yhr73s





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清单 List:

样品编号 Sample No.	零部件名称 Part Name	
G2924867D3-1	外皮	Skin
G2924867D3-2	白色垫圈	White washer
G2924867D3-3	金属壳	Metal shell
G2924867D3-4	金属盖	Metal cover
G2924867D3-5	金属圈	Metal ring
G2924867D3-6	白色密封圈	White sealing ring
G2924867D3-7	小胶圈	Small rubber ring
G2924867D3-8	铝片	Aluminum sheet
G2924867D3-9	白色垫片	White gasket
G2924867D3-10	茶色胶带	Tawny tape
G2924867D3-11	绿色胶带	Green tape
G2924867D3-12	绝缘带	Insulating tape
G2924867D3-13	正极片	Positive plate
G2924867D3-14	铝箔	aluminum foil
G2924867D3-15	铝箔上的粉末	Powder on aluminum foil
G2924867D3-16	负极片	Negative plate
G2924867D3-17	铜片	Copper sheet
G2924867D3-18	铜箔上的粉末	Powder on copper foil



Hotline 400-819-5688

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谱尼测试集团深圳有限公司

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测试结果 Test Result (Unit: mg/kg)

样品编号 Sample No.	EDXRF		化学测试 Chemical Testing			单项判定 Item Conclusion
	测试项目 Test Item	结果 <sup>(1)</sup> Results <sup>(1)</sup>	测试项目 Test Item	结果 <sup>(2)</sup> Result <sup>(2)</sup>	限量 Limit	
G2924867D3-1	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	BL	PBBs	\	1000	PASS
PBDEs			\	1000	PASS	
G2924867D3-2	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	BL	PBBs	\	1000	PASS
PBDEs			\	1000	PASS	
G2924867D3-3	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	\	PBBs	\	1000	—
PBDEs			\	1000	—	
G2924867D3-4	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	\	PBBs	\	1000	—
PBDEs			\	1000	—	
G2924867D3-5	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	\	PBBs	\	1000	—
PBDEs			\	1000	—	



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样品编号 Sample No.	EDXRF		化学测试 Chemical Testing			单项判定 Item Conclusion
	测试项目 Test Item	结果 <sup>(1)</sup> Results <sup>(1)</sup>	测试项目 Test Item	结果 <sup>(2)</sup> Result <sup>(2)</sup>	限量 Limit	
G2924867D3-6	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	BL	PBBs	\	1000	PASS
PBDEs			\	1000	PASS	
G2924867D3-7	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	BL	PBBs	\	1000	PASS
PBDEs			\	1000	PASS	
G2924867D3-8	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	\	PBBs	\	1000	—
PBDEs			\	1000	—	
G2924867D3-9	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	BL	PBBs	\	1000	PASS
PBDEs			\	1000	PASS	
G2924867D3-10	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	BL	PBBs	\	1000	PASS
PBDEs			\	1000	PASS	



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样品编号 Sample No.	EDXRF		化学测试 Chemical Testing			单项判定 Item Conclusion
	测试项目 Test Item	结果 <sup>(1)</sup> Results <sup>(1)</sup>	测试项目 Test Item	结果 <sup>(2)</sup> Result <sup>(2)</sup>	限量 Limit	
G2924867D3-11	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	BL	PBBs	\	1000	PASS
PBDEs			\	1000	PASS	
G2924867D3-12	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	BL	PBBs	\	1000	PASS
PBDEs			\	1000	PASS	
G2924867D3-13	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	\	PBBs	\	1000	—
PBDEs			\	1000	—	
G2924867D3-14	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	\	PBBs	\	1000	—
PBDEs			\	1000	—	
G2924867D3-15	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	BL	PBBs	\	1000	PASS
PBDEs			\	1000	PASS	



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样品编号 Sample No.	EDXRF		化学测试 Chemical Testing			单项判定 Item Conclusion
	测试项目 Test Item	结果 <sup>(1)</sup> Results <sup>(1)</sup>	测试项目 Test Item	结果 <sup>(2)</sup> Result <sup>(2)</sup>	限量 Limit	
G2924867D3-16	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	\	PBBs	\	1000	—
			PBDEs	\	1000	—
G2924867D3-17	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	\	PBBs	\	1000	—
			PBDEs	\	1000	—
G2924867D3-18	Pb	BL	Pb	\	1000	PASS
	Cd	BL	Cd	\	100	PASS
	Hg	BL	Hg	\	1000	PASS
	Cr	BL	Cr <sup>6+</sup>	\	1000	PASS
	Br	BL	PBBs	\	1000	PASS
			PBDEs	\	1000	PASS



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测试结果 Test Result (Unit: mg/kg)

样品编号 Sample No.	化学测试 Chemical Testing				单项判定 Item conclusion
	测试项目 Test Item	方法检出限 MDL	结果 <sup>(2)</sup> Result <sup>(2)</sup>	限量 Limit	
G2924867D3-1	DEHP	50	N.D.	1000	PASS
	DBP	50	N.D.	1000	PASS
	BBP	50	N.D.	1000	PASS
	DIBP	50	N.D.	1000	PASS
G2924867D3-2	DEHP	50	N.D.	1000	PASS
	DBP	50	N.D.	1000	PASS
	BBP	50	N.D.	1000	PASS
	DIBP	50	N.D.	1000	PASS
G2924867D3-6	DEHP	50	N.D.	1000	PASS
	DBP	50	N.D.	1000	PASS
	BBP	50	N.D.	1000	PASS
	DIBP	50	N.D.	1000	PASS
G2924867D3-7	DEHP	50	N.D.	1000	PASS
	DBP	50	N.D.	1000	PASS
	BBP	50	N.D.	1000	PASS
	DIBP	50	N.D.	1000	PASS
G2924867D3-9	DEHP	50	N.D.	1000	PASS
	DBP	50	N.D.	1000	PASS
	BBP	50	N.D.	1000	PASS
	DIBP	50	N.D.	1000	PASS
G2924867D3-10	DEHP	50	N.D.	1000	PASS
	DBP	50	N.D.	1000	PASS
	BBP	50	N.D.	1000	PASS
	DIBP	50	N.D.	1000	PASS





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测试结果 Test Result (Unit: mg/kg)

样品编号 Sample No.	化学测试 Chemical Testing				单项判定 Item conclusion
	测试项目 Test Item	方法检出限 MDL	结果 <sup>(2)</sup> Result <sup>(2)</sup>	限量 Limit	
G2924867D3-11	DEHP	50	N.D.	1000	PASS
	DBP	50	N.D.	1000	PASS
	BBP	50	N.D.	1000	PASS
	DIBP	50	N.D.	1000	PASS
G2924867D3-12	DEHP	50	N.D.	1000	PASS
	DBP	50	N.D.	1000	PASS
	BBP	50	N.D.	1000	PASS
	DIBP	50	N.D.	1000	PASS
G2924867D3-15	DEHP	50	N.D.	1000	PASS
	DBP	50	N.D.	1000	PASS
	BBP	50	N.D.	1000	PASS
	DIBP	50	N.D.	1000	PASS
G2924867D3-18	DEHP	50	N.D.	1000	PASS
	DBP	50	N.D.	1000	PASS
	BBP	50	N.D.	1000	PASS
	DIBP	50	N.D.	1000	PASS



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备注 Remark:

(1) (a)结果显示的是总 Br 含量,而限用物质是 PBBs/PBDEs;结果显示的是总 Cr 含量,而限用物质是 Cr<sup>6+</sup>.  
It is the result on total Br while test item on restricted substances is PBBs/PBDEs.It is the result on total Cr while test item on restricted substances is Cr<sup>6+</sup>.

(b)EDXRF 所得的测试结果只作初步筛选, 如果 XRF 结果超出 IEC 62321-3-1:2013 所规定的警戒范围, 我们建议客户用更精确的化学测试方法测试样品。(单位 mg/kg)

Results are obtained by EDXRF for primary screening,and further chemical testing, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013 (unit:mg/kg)

元素 Element	聚合物 Polymer	金属 Metal	复合材料 Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	—	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c) BL=低于限度, OL=超出限度, IN=不确定, LOD=测试极限值

BL=Below Limit, OL=Over Limit, IN=Inconclusive, LOD=Limit of Detection

(d) 对于复合材料, XRF 筛选测试 RoHS 元素所得数据可能与样品中实际含量不同。

The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of non-uniformity composition

(2) (a) mg/kg=ppm=0.0001%, N.D.=未检出(低于方法检出限), —=未测试, \=无要求。  
mg/kg=ppm=0.0001%, N.D.= not detected(<MDL), —= not conducted,\= not available.



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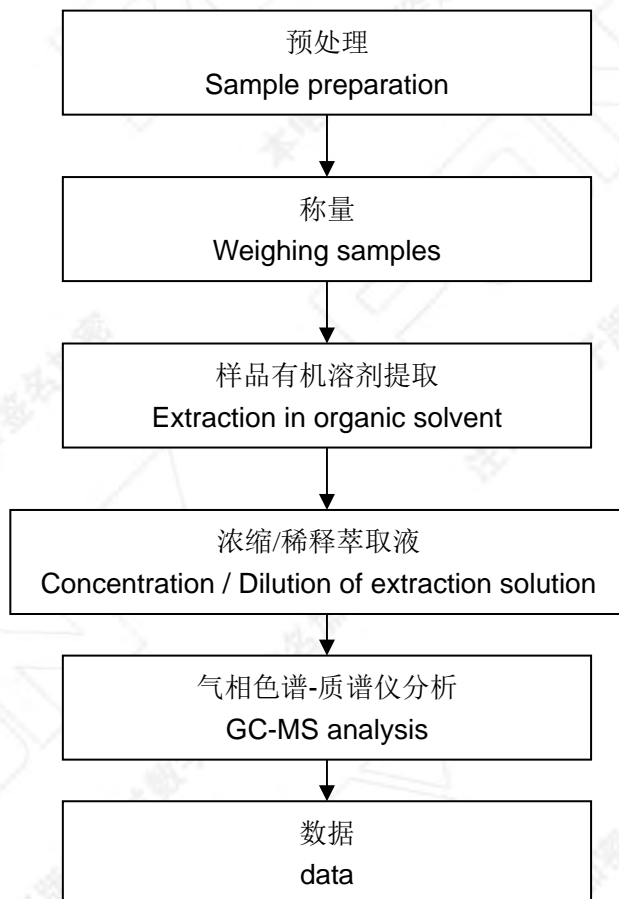
传真: 0755-26068336



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邻苯二甲酸酯类 测试流程 Phthalates Measurement Flow-chart

测试人员 Tested By: 黄振锦 审核人 Checked by: 彭平平 实验室负责人 Person in charge of the lab by: 毛祖青





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样品编号和照片 Sample No. & Photo: G2924867D3 成品图 Finished Photo

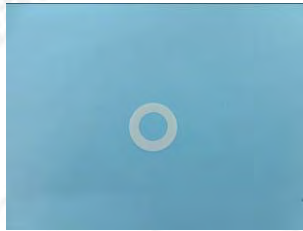


零部件图 Part Photo

G2924867D3-1



G2924867D3-2



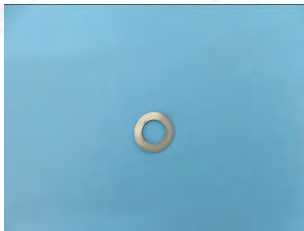
G2924867D3-3



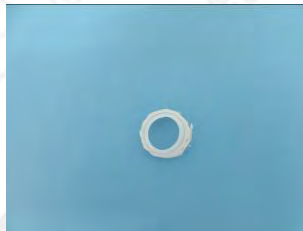
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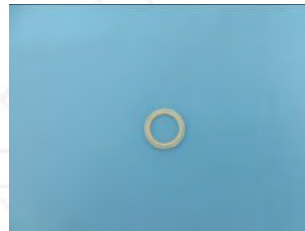
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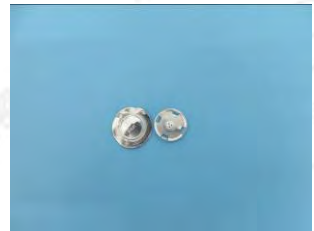
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G2924867D3-7



G2924867D3-8



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