



UN38.3 测试报告 UN38.3 Test Report

报告编号Report No.: S03A22110836U00501

样品名称: 聚合物锂离子电芯 Sample Name: Polymer Li-ion Cell

样品型号: 955565 Sample Model:

委托单位: 广东嘉尚新能源科技有限公司

Applicant: Guangdong Cvasun New Energy Technology Co., Ltd

签发日期: 2022-12-18 Issue Date:



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样品描述 Sample Description							
样品名称 Sample Name	聚合物锂离子电芯 Polymer Li-ion Cell	955565					
测试实验室 Testing laboratory	广东储能检测技术有限公司 Guangdong ESTL Technol						
测试地址 Testing Address	广东省东莞市松山湖园区总 Room 101, 201-208, Unit 1 Lake Park, Dongguan, Gua	, Building 1, No. 9 Heado	201-208室。 quarters 2nd Road, Songshan				
委托单位 Applicant	广东嘉尚新能源科技有限公 Guangdong Cvasun New E		.td				
委托单位地址 Applicant Address	广东省东莞市石排镇石崇横路 14 号 No.14 Shichongheng Road, Shipai Town, Dongguan City, Guangdong Province						
制造商 Manufacturer		广东嘉尚新能源科技有限公司 Guangdong Cvasun New Energy Technology Co., Ltd					
制造商地址 Manufacturer Address	广东省东莞市石排镇石崇横路 14 号 No.14 Shichongheng Road, Shipai Town, Dongguan City, Guangdong Province						
测试标准 Standard	联合国《试验和标准手册》第七版第38.3节 UNITED NATIONS the "Manual of Test and Criteria" (ST/SG/AC.10/11/Rev.7) Section 38.3.						
接样日期 Date of sample receipt	2022-12-01						
测试日期 Tested date	2022-12-02 to 2022-12-16						

检验结论 Test conclusion:

由广东嘉尚新能源科技有限公司送检的聚合物锂离子电芯,依据联合国《试验和标准手册》第七版第**38.3** 节进行检测,试验为全项目,测试结果符合标准相关要求。

The Polymer Li-ion Cell submitted by Guangdong Cvasun New Energy Technology Co., Ltd are tested according to UNITED NATIONS the "Manual of Test and Criteria" (ST/SG/AC.10/11/Rev.7) Section 38.3. The test items are full items. The test results comply with the relevant requirements of the standard.

检测 Tested by

王宁

审核 Reviewed by 批准 Approved by 报告专用章 Special Seal for Report Special Special Seal for Report Special Special Seal for Report Special S

样品信息 Sample Information								
标称电压 Nominal Voltage	3.7V	额定容量 Rated Capacity	5000mAh					
瓦时 Watt-hour	18.5Wh	商标 Trade mark						
充电限制电压 Limited Charge Voltage	4.2V	放电终止电压 Discharge Cut-Off Voltage	3.0V					
充电电流 Charge Current	2500mA	最大持续充电电流 Max. Continuous Charge Current	5000mA					
放电电流 Discharge Current	2500mA	最大持续放电电流 Max. Continuous Discharge Current	5000mA					
充电截止电流 End Charge Current	100mA	电芯尺寸 Cell dimensions	9.5mm*55.3mm*65.5mm					

Description of the sampling procedure: /

取样程序的说明:/

Description of the deviation from the standard, if any: /

测试结果不符合标准项的说明:/

Remarks/备注:

1. 本报告中以点代替小数点。

Throughout this report a comma is used as the decimal separator.

2. 判定栏中"-"表示"不需要判定", "P"表示"通过", "F"表示"不通过", "N/A"表示"不适用"。

As for the Verdict, "-" means "no need for judgement", "P" means "pass", "F" means "fail" and "N/A" means "not applicable".

Summary of testing:

Tests performed (name of test and test clause):

Test items	Sample Number
T.1: Altitude simulation / 高度 模拟	
T.2: Thermal test / 温度试验	
T.3: Vibration / 振动	C1 - C10
T.4: Shock / 冲击	
T.5: External short circuit / 外接短路	
T.6: Crush / 挤压 or Impact/撞 击	C11 - C20
T.7 Overcharge / 过充电	
T.8: Forced discharge / 强制 放电	C21 - C40

The sample's status is good.

样品状况良好。

Rechargeable cells of C1~C5 are full charged after one cycle;

可充电电芯C1~C5为1次循环满电状态;

Rechargeable cells of C6~C10 are full charged after twenty-five cycles;

可充电电芯C6~C10为25次循环满电状态;

Rechargeable cells of C11~C15 are 50% charged after one cycle;

可充电电芯C11~C15为1次循环后50%充电状态;

Rechargeable cells of C16~C20 are 50% charged after twenty-five cycles;

可充电电芯C16~C20为25次循环后50%充电状态;

Rechargeable cells of C21~C30 are full discharged after one cycle;

可充电电芯C21~C30为1次循环完全放电状态;

Rechargeable cells of C31~C40 are full discharged after twenty-five cycles;

可充电电芯C31~C40为25次循环完全放电状态;

Testing location:

测试地点:

广东储能检测技术有限公司

Guangdong ESTL Technology Co., Ltd.

广东省东莞市松山湖园区总部二路9号1栋1单元101、201-208室。

Room 101, 201-208, Unit 1, Building 1, No. 9 Headquarters 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China.

Test Procedure:

1.Each battery type is subjected to tests T.1 to T.8. Tests T.1 to T.5 are conducted in sequence on the same battery. Tests 6 and 8 are conducted using not otherwise tested batteries. Test T.7 may be conducted using undamaged batteries previously used in Tests T.1 to T.5 for purposes of testing on cycled batteries.

每一种类型的电池均应进行T.1至T.8项试验。电池必须按顺序在相同的一组电池上进行试验T.1至T.5。试验T.6和T.8应使用未另外试验过的电池。试验T.7可以使用先前在试验T.1至T.5中使用过的未损坏电池进行,以便测试进行在循环过的电池上。

2.In order to quantify the mass loss, the following procedure is provided:

Mass loss(%)=(M1-M2)/M1×100

为了量化质量损失,可用以下公式计算:质量损失(%)=(M1-M2)/M1×100

Where M1 is the mass before the test and M2 is the mass after the test. When mass loss does not exceed the values in Table below, it is considered as "no mass loss".

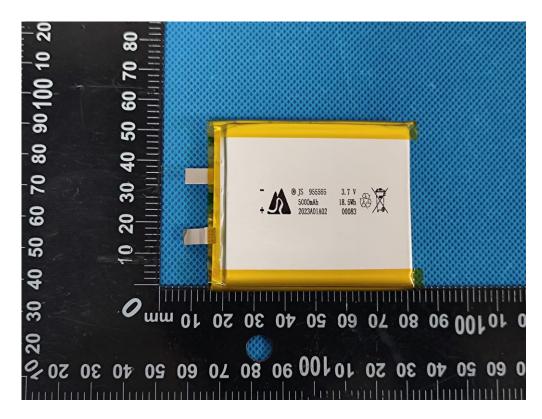
式中: M1是试验前的质量, M2是试验后的质量。如果质量损失不超过下表所列的数值, 应视为"无质量损失"。

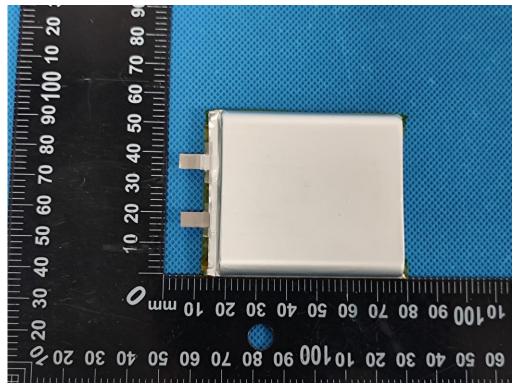
Mass M of cell or battery	Mass loss limit
电芯或电池的质量	质量损失限值
M<1g	0.5%
1g≤M≤75g	0.2%
M>75g	0.1%

3. In test T.1 to T.4, batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test battery after testing is not less than 90% of its voltage immediately prior to this procedure.

在测试T.1至T.4中,电池须满足无渗漏、无泄气、无解体、无破裂和无起火,并且每个试验电池在试验后的开路电压不小于其在进行这一试验前电压的90%。

Photos of Samples and Labels/样品照片及标识





38.3.4	Procedure / 测试步骤		判定 Verdict
38.3.4.1	Test 1: Altitude simulation / 测试1. 高度模拟		Р
	Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hour at ambient temperature (20±5°C).		Р
	试验电芯和电池在温度为20±5℃,大气压 力为不大于 11.6kpa 的环境中贮存不少于6 个小时。		
	Requirement / 标准要求:	No leakage, no	Р
	1. Cells and batteries Mass loss limit: ≤0.2%.	venting, no	
	样品质量损失≤0.2%。	disassembly, no rupture and no fire.	
requirement relating to voltage is recells and batteries at full discharge 样品试验后开路电压应不低于试验求不适用于完全放完电的电芯和电3. No leakage, no venting, no disa and no fire.	2. Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states.	无漏液、无排气、无解体、无破裂以及无着火现象。	
	样品试验后开路电压应不低于试验前开路电压的90%,此要求不适用于完全放完电的电芯和电池。	The data see table 1.	
	3. No leakage, no venting, no disassembly, no rupture and no fire.	/测试数据见表1。	
	样品应无漏液、无排气、无解体、无破裂以及无着火现象 的发生。		
38.3.4.2	Test 2: Thermal test / 测试 2: 温度试验		Р
	Test cells and batteries are to be stored for		Р
	试验电芯和电池存储条件如下:		
	1. one temperature cycle: 72±2°C(6h) — -40±2°C(6h).		
	一次温度循环为72±2℃(6h) — -40±2℃(6h)。		
	2. The maximum time interval between test temperature extremes is 30 minutes.		
	温度转换最大间隔时间为30mins。		
	3. This procedure is to be repeated 10 times.		
	重复10 次循环。		
	4. after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20±5°C).		
	循环结束后,所有试验电芯和电池在 20±5℃的条件下 搁置24 小时。		
	Requirements / 标准要求:	No leakage, no	Р
	1. Cells and batteries Mass loss limit: ≤0.2%.	venting, no disassembly, no	
	样品质量损失≤0.2%。	rupture and no fire.	
	2. Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states.	无漏液、无排气、无解体、无破裂以及无着火现象。	
	样品试验后开路电压应不低于试验前开路电压的90%,此要求不适用于完全放完电的电芯和电池。	The data see table 1.	
	3. No leakage, no venting, no disassembly, no rupture and no fire.	/测试数据见表1。	
	样品应无漏液、无排气、无解体、无破裂以及无着火现象的发生。		

38.3.4.3	Test 3: Vibration / 测试 3: 振动		Р
	Cells and batteries are firmly secured to the platform of the vibration machine.		Р
	电芯和电池牢固地安装在振动台(的台面)上。		
	2. The vibration :a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes.		
	振动以正弦波形式,以7Hz 增加至200Hz,然后在减少回到7Hz 为一个循环,一个循环持续15 分钟的对数前移传送。		
	3. the logarithmic frequency sweep is as follows: from 7 Hz a peak acceleration of 1 gn is maintained until 18 Hz is reached, The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of 8 gn occurs (approximately 50Hz), A peak acceleration of 8 gn is then maintained until the frequency is increased to 200 Hz.		
	对数扫频为:从7 赫兹开始保持1gn 的最大加速度直到频率为18 赫兹,然后将振幅保持在0.8 毫米(总偏移1.6 毫米)并增加频率直到最大加速度达到8gn(频率约为50 赫兹),将最大加速度保持在8gn 直到频率增加到200 赫兹。		
	4. This cycle repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting position of the cell. One of the directions of vibration must be perpendicular to the terminal face.		
	以振动的其中一个方向必须是垂直样品极性,对每个电芯从三个互相垂直的方向上循环12次,每个方向3个小时,共9小时。		
	Requirements / 标准要求:	No leakage, no	Р
	1. Cells and batteries Mass loss limit: ≤0.2%. 样品质量损失≤0.2%.	venting, no disassembly, no	
	2. Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states.	rupture and no fire. 无漏液、无排气、无解体、无破裂以及无着火现象。	
	样品试验后开路电压应不低于试验前开路电压的90%,此要求不适用于完全放完电的电芯和电池。	The data see table 1.	
	3. No leakage, no venting, no disassembly, no rupture and no fire.	/测试数据见表1。	
	样品应无漏液、无排气、无解体、无破裂以及无着火现象 的发生。		
38.3.4.4	Test 4: Shock / 测试 4: 冲击		Р

Test cells machine be mounting substery sha acceleration millisecond to a half-si pulse dura 试验电芯和以支撑每个加速度150	P			
进行冲击。	月峰值加速度50 gn、脉冲时向 ery shall be subjected to a ha			P
The pulse batteries a formulas b minimum p 每个电池应的质量。小	leration depending on the m duration shall be 6 millisecound 11 milliseconds for large pelow are provided to calculate beak accelerations. 应用半正弦波冲击的峰值加速 下电池应用6 ms的脉冲时间以时间。根据下面的公式来计算	III he opriate 于电池 用11		
Batter y	Minimum peak acceleration	Pulse duration		
Small batteri es	150 gn or result of formula Acceleration (gn) $= \sqrt{\left(\frac{100850}{mass*}\right)}$ Whichever is smaller	6ms		
Large batteri es	50 gn or result of formula $Acceleration (gn)$ $= \sqrt{\left(\frac{30000}{mass *}\right)}$ Whichever is smaller			
Cook coll :	or battery is subjected to thre	Р		
positive didirection in	rection and to three shocks in each of three mutually perpositions of the cell or batter	n the negati pendicular	ve	

	Requirements / 标准要求:	No leakage, no	Р
	1. Cells and batteries Mass loss limit: ≤0.2%.	venting, no	
	样品质量损失≤0.2%。	disassembly, no rupture and no fire.	
	2. Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states.	无漏液、无排气、无解体、无破裂以及无着火现象。	
	样品试验后开路电压应不低于试验前开路电压的90%,此要求不适用于完全放完电的电芯和电池。	The data see table 1.	
	3. No leakage, no venting, no disassembly, no rupture and no fire.	/测试数据见表1。	
	样品应无漏液、无排气、无解体、无破裂以及无着火现象的发生。		
38.3.4.5	Test 5: External Short Circuit / 测试5 外接短路		Р
	1. The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches 57±4°C.		Р
	保持试验环境温度稳定在57±4℃,以使电芯或电池样品外表温度达到57±4℃。		
	2. the cell or battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm at 57±4°C, This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57±4°C.		
	将样品正负极用小于0.1Ω的总电阻回路进行短路,样品的外表温度恢复到57±4℃之后保持短路状态1小时以上。		
	3. the cell or battery must be observed for a further six hour for the test to be concluded.		
	对电芯或电池必须进一步观察6个小时才能下结论。		
	Requirements / 标准要求: During the test and within six hours after test, the cells or	External temperature not exceed 170°C	Р
	batteries. 在测试过程中以及之后6个小时内,电芯或电池样品。	外表温度不超过170℃ No disassembly, no	
	1. External temperature not exceed 170°C.	rupture and no fire. 无解体、无破裂和无着	
	外表温度不超过170℃。	九鹏仰、无倾裂和无有 火现象发生。	
	2. No disassembly, no rupture and no fire. 样品应无解体、无破裂和无着火现象发生。	The data see table 1. /测试数据见表1。	
38.3.4.6	Test 6: Impact / Crush / 测试6: 撞击 / 挤压		Р
	Impact (applicable to cylindrical cells not less than 18mm in diameter).		N/A
	撞击(适用于直径不小于18毫米的圆柱形电芯)。		

1. This test sample cell or component cell is to be placed on a flat smooth surface.	N/A
将试验样品用的电芯或元件电芯放在一个平坦光滑的平面上。	
2. A 15.8mm±0.1mm diameter bar is to be placed across the center of the sample, A 9.1kg±0.1kg mass is to be dropped from a height of 61±2.5cm onto the sample.	
将一直径为15.8mm±0.1mm的钢棒横过电池中部放置后,将一质量为9.1kg±0.1kg的物体从61±2.5cm 的高度落向样品。	
3. The test sample is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the 15.8mm±0.1mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.	
接受撞击的试样,纵轴应与平坦的表面平行并与横放在试样中心的直径15.8mm±0.1mm弯曲表面的纵轴垂直。每一个试样只经受一次撞击。	
Requirements / 标准要求:	N/A
1. Test cells or component cells external temperature not exceed 170°C.	
电芯或元件电芯的最高表面温度应不超过170℃。	
2. No disassembly and no fire within six hours of this test.	
试验结束后6个小时之内,应无解体和无着火现象发生。	
Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18mm in diameter). 挤压(适用于棱柱形、袋装、硬币/纽扣电芯和直径小于18 毫米的圆柱形电芯)。	Р

38.3.4.7	Test 7: Overcharge / 测试 7: 过充电		N/A
		The data see table 2. /测试数据见表2。	
	test. 试验结束后6个小时之内,应无解体和无着火现象发生。	无解体、无破裂和无着 火现象发生。	
	2. No disassembly and no fire within six hours of this	rupture and no fire.	
	电芯或元件电芯的最高表面温度应不超过170℃。	No disassembly, no	
	1. Test cells or component cells external temperature not exceed 170°C.	not exceed 170℃ 外表温度不超过170℃	
	Requirements / 标准要求:	External temperature	Р
	棱柱形或袋装电芯应从最宽的一面施压。纽扣/硬币形电池 应从其平坦表面施压。圆柱形电芯应从与纵轴垂直的方向 施压。		
	For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis.		
	2. A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces.		
	电芯变形达原始厚度的50%以上。		
	(c) The cell is deformed by 50% or more of its original thickness.		
	电芯的电压下降至少100毫伏。		
	(b) The voltage of the cell drops by at least 100 mV.		
	(a) The applied force reaches 13 kN ± 0.78 kN. 施加的力达到13 千牛±0.78 千牛。		
	将电芯或元件电芯放在两个平面之间挤压,挤压力度逐渐加大,在第一个接触点上的速度大约为1.5 厘米/秒。挤压持续进行,直到出现以下三种情况之一:	±0.78 十十。	
	1. A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5 cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached.	The applied force reaches 13 kN ± 0.78 kN. 施加的力达到13 千牛±0.78 千牛。	Р

	The charge current shall be twice the manufacturer's recommended maximum continuous charge current.		N/A
	以2倍制造厂推荐的最大持续充电电流对样品充电。		
	2. The minimum voltage of the test shall be as follows:		
	本测试最小电压为:		
	a) When the manufacturer's recommended charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V.		
	如果厂家推荐的充电电压不超过18V,本测试的最小充电电压应是厂家标定最大充电电压的两倍或者是22V之中的较小者。		
	b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge voltage.		
	如果厂家推荐的充电电压超过18V,本测试的最小充电电压应是厂家标定最大充电电压的1.2倍。		
	3. Tests are to be conducted at ambient temperature 20±5°C, The duration of the test shall be 24 hours.		
	20±5℃的环境温度下,试验持续24 小时。		
	Requirements / 标准要求:		N/A
	No disassembly and no fire within seven days of this test.		
	试验样品在试验中和试验后7天内,应无解体和无着火现象发生。		
38.3.4.8	Test 8: Forced discharge / 测试 8: 强制放电		Р
	Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12 V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer.		Р
	20±5℃的环境温度下,将单个电芯连接在12V的直流电源上进行强制放电,此直流电源提供给每个电芯初始电流为制造厂指定的最大放电电流。		
	The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere).		Р
	指定的放电电流通过串联在测试电芯上的合适大小和功率的负载来获得,每个电芯的强制放电时间(小时)为额定容量除以初始电流(安培)。		
	Requirements / 标准要求:	No disassembly and no	Р
	No disassembly and no fire within seven days of this test.	fire.	
	试验样品在试验中和试验后7天内,应无解体和无着火现	无解体和无着火现象。	
	象发生。	The data see table 2. /测试数据见表2。	

	Table 1: T1-T5 / 表1. 试验1-试验5										
Sample No. / 样品 编号	Mass prior to test / 试验前 质量(g)	OCV prior to test / 试验前 电压(V)	simu	Altitude lation 高度模拟		nermal test 温度实验		Vibration 3: 振动		Shock 1: 冲击	Test 5: External Short Circuit 测试 5: 外接短路
			Mass loss(%) 质量损失 (%)	Change ratio 电压比(%)	Mass loss(%) 质量损失 (%)	Change ratio 电压比(%)	Mass loss(%) 质量损失 (%)	Change ratio 电压比(%)	Mass loss(%) 质量损失(%)	Change ratio 电压比(%)	Temp. (℃) 温度 (℃)
C1	72.972	4.186	0.000	100.00	0.008	98.71	0.000	100.00	0.000	100.00	108.9
C2	72.855	4.187	0.001	99.98	0.008	98.64	0.000	99.98	0.001	100.00	125.7
С3	72.786	4.186	0.001	99.98	0.014	98.64	0.000	100.00	0.000	100.00	116.4
C4	72.295	4.186	0.000	100.00	0.012	98.73	0.003	99.98	0.000	100.00	117.4
C5	72.742	4.185	0.001	99.98	0.008	98.73	0.000	100.00	0.000	100.00	110.4
C6	72.375	4.185	0.000	99.98	0.011	98.78	0.000	100.00	0.000	99.98	112.1
C7	72.949	4.186	0.000	100.00	0.010	98.71	0.001	99.98	0.000	100.00	120.1
C8	72.987	4.186	0.003	99.95	0.010	98.69	0.001	100.00	0.000	100.00	115.6
С9	72.689	4.186	0.000	99.98	0.011	98.76	0.000	99.98	0.000	100.00	117.6
C10	72.914	4.185	0.003	99.98	0.012	98.69	0.000	100.00	0.000	100.00	114.6

Table 2: T6-T8 / 表2. 试验6-试验8						
Test 6: Impact /Crush /测试6: 撞击 /挤压			Test 7: Overcharge /测试7:过充电		Test 8: Forced discharge / 测试8: 强制放电	
Sample No. / 样品 编号	OCV prior to test / 试 验前电压 (V)	Temp. (℃) / 温度 (℃)	Sample No. / 样品编号	OCV prior to test / 试验前电 压(V)	Sample No. / 样 品编号	OCV prior to test / 试验前电压(V)
C11	3.819	22.4			C21	3.276
C12	3.824	22.6			C22	3.280
C13	3.820	22.5			C23	3.288
C14	3.826	22.6			C24	3.284
C15	3.825	22.5			C25	3.292
C16	3.828	22.5			C26	3.288
C17	3.821	22.7			C27	3.283
C18	3.822	22.6			C28	3.286
C19	3.830	22.6			C29	3.281
C20	3.825	22.5			C30	3.292
					C31	3.288
					C32	3.294
					C33	3.280
					C34	3.286
					C35	3.285
					C36	3.289
					C37	3.293
					C38	3.299
					C39	3.286
					C40	3.292

--- 报告结束 ---

--- End of Report ---

声明

Declaration

1. 本报告无批准人、审核人及检测人签名无效。

The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.

2. 对检验报告若有异议,应于收到报告之日起十五天内向检验单位提出。

Objections to the test report must be submitted to ESTL within 15 days.

3. 未经本试验室书面同意,不得部分地复制本报告。

Nobody is allowed to photocopy or partly photocopy this test report without written permission of ESTL.

4. 客户必须如实提供样品及资料,并保证申报品名和样品以及运输货物相同,否则本检测单位不承担任何相关责任。

The client should provide samples and relevant data, at the same time, they should guarantee the consistence of the product's name the declared, the samples they provided and the goods to be transported. Otherwise we will not bear any relevant responsibilities.

5. 本报告仅对送检样品负责。

The test report is valid for the tested samples only.

6. 任何情况下检测单位的赔偿责任都不会超过检测单位就本次检测所收取的检测费用。

ESTL's liability under no circumstance will exceed the testing fee received from applicant for test conducted hereof this testing report.

7. 本报告涂改无效。

The test report is invalid if altered.

8. 本报告无本公司"检测报告专用章"或"公章"无效。

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