

地址: 中国广州市珠江新城花城大道66号B座8楼
Add: 8/F, Tower B, No.66 Huacheng Avenue, Guangzhou, China
Tel: +86-20-3829 0477, 3829 0566 Postcode: 510623
Fax: +86-20-3829 0729, 3829 0583
E-mail: ltl@iqtc.cn Website: www.iqtc.cn

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No: 01051300002517-1 (E)
Date: 2013-05-03
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Certificate for Lithium Battery of UN38.3 Safety

Sample Name: Li-ion Rechargeable Battery (Model: BP1730-2009
RECHARGEABLE LITHIUM ION BATTERY
9.25Wh 2500mAh 3.7V (4146702))

Manufacture: VIEW TECH LIMITED

Applicant: VIEW TECH LIMITED



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TEST REPORT

Sample Name	Li-ion Rechargeable Battery	Mark	22201300732
Battery Type	BP1730-2009 RECHARGEABLE LITHIUM ION BATTERY 9.25Wh 2500mAh 3.7V (4146702)	Sample Number	126 pieces
Cell Type	UF653450S	Cell Number	2 pieces
Applicant	VIEW TECH LIMITED		
Address	No.2, Libo Shui Industrial District, NanYa Bei Lu, Shek Wan Boluo, Huizhou, Guangdong, China		
Nominal Voltage	3.7V	Rated Capacity	2500mAh
Charge Current	1.0A	Discharge Current	0.83A
Maximum Charge Current	1.0A	Maximum Discharge Current	0.83A
Limited Charge Voltage	4.2V	Cut-off Voltage	2.75V
Date of Sample Received	2013-04-01	Date of Accomplished	2013-05-03
Test Standard	Section 38.3 of the Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria (Rev.5)		
Sample Description	Batteries of #1, #2, #3, #9 and #10 are batteries in full charged after one cycle; Batteries of #4, #5, #6, #11 and #12 are batteries in full charged after fifty cycle; Batteries of #7 and #8 are cells at the first cycle at 50% of the design rated capacity.		
Conclusion	The battery samples are complying with Section 38.3 of the Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria (Rev.5). For the details, refer to the following page 4 to 7.		
	<p>AUTHORISED BY</p> <p> Guo Ren Hong</p>		
Remark	The test results are only valid for the test samples submitted the applicant.		

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Photo of the sample



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Test results:

Test Item	Requirement of Standard	Sample Number	Test Result	Conclusion
Altitude simulation	Test cells and batteries shall be stored at a pressure of 11.6 kPa or less for at least six hours at ambient temperature $20 \pm 5^{\circ}\text{C}$. Cells and batteries meet this requirement if there is no mass loss, no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.	#1, #2, #3, #4, #5, #6	No mass loss, no leakage, no venting, no disassembly, no rupture and no fire, the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage	Pass
Thermal test	Test cells and batteries are to be stored for at least six hours at a test temperature equal to $75 \pm 2^{\circ}\text{C}$, followed by storage for at least six hours at a test temperature equal to $-40 \pm 2^{\circ}\text{C}$. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated 10 times, after which all test cells and batteries are to be stored for 24 hours at ambient temperature ($20 \pm 5^{\circ}\text{C}$). For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours. Cells and batteries meet this requirement if there is no mass loss, no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.	#1, #2, #3, #4, #5, #6	No mass loss, no leakage, no venting, no disassembly, no rupture and no fire, the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage	Pass
Vibration	Cells and batteries are firmly secured to the platform of the vibration machine without distorting the cells in such a manner as to faithfully transmit the vibration. The vibration shall be a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes. This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. One of the directions of vibration must be perpendicular to the terminal face. Cells and batteries meet this requirement if there is no mass loss, no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.	#1, #2, #3, #4, #5, #6	No mass loss, no leakage, no venting, no disassembly, no rupture and no fire, the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage	Pass

(To be continued)

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Test Item	Requirement of Standard	Sample Number	Test Result	Conclusion
Shock	Test cells and batteries shall be secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery. Each cell or battery shall be subjected to a half-sine shock of peak acceleration of 150gn and pulse duration of 6 milliseconds. However, large cells and large batteries shall be subjected to a half-sine shock of peak acceleration of 50gn and pulse duration of 11 milliseconds. Each cell or battery shall be subjected to three shocks in the positive direction followed by three shocks in the negative direction of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks. Cells and batteries meet this requirement if there is no mass loss, no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.	#1,#2, #3,#4, #5,#6	No mass loss, no leakage, no venting, no disassembly, no rupture and no fire, the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage	Pass
External short circuit	The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches $55 \pm 2^\circ\text{C}$ and then the cell or battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm at $55 \pm 2^\circ\text{C}$. This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to $55 \pm 2^\circ\text{C}$. The cell or battery must be observed for a further six hours for the test to be concluded. Cells and batteries meet this requirement if their external temperature does not exceed 170°C and there is no disassembly, no rupture and no fire within six hours of this test.	#1,#4	Battery External temperature : 56.7°C , 55.9°C ; No disassembly, no rupture and no fire within six hours of this test.	Pass
Impact	The test sample cell or component cell is to be placed on a flat surface. A 15.8 mm diameter bar is to be placed across the centre of the sample. A 9.1 kg mass is to be dropped from a height of (61 ± 2.5) cm onto the sample. Cells and component cells meet this requirement if their external temperature does not exceed 170°C and there is no disassembly and no fire within six hours of this test.	#7,#8	Battery External temperature : 85.2°C , 84.5°C ; No disassembly, no rupture and no fire within six hours of this test.	Pass

(To be continued)

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Test Item	Requirement of Standard	Sample Number	Test Result	Conclusion
Overcharge	The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows: (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. (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. Tests are to be conducted at ambient temperature. The duration of the test shall be 24 hours. Rechargeable batteries meet this requirement if there is no disassembly and no fire within seven days of the test.	#9,#10, #11,#12	No disassembly and no fire	Pass
Forced discharge	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. 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). Primary or rechargeable cells meet this requirement if there is no disassembly and no fire within seven days of the test.	---	Not applicable	----

(To be continued)



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Record Table of Mass-Voltage Testing Date

Sample Model			BP1730-2009 RECHARGEABLE LITHIUM ION BATTERY 9.25Wh 2500mAh 3.7V (4146702)			
Mass						
Sample Number	1	2	3	4	5	6
Primal	61.876	61.694	61.887	61.316	60.970	60.887
After Altitude simulation	61.875	61.693	61.886	61.316	60.970	60.886
After Thermal test	61.868	61.687	61.882	61.314	60.967	60.881
After Vibration	61.867	61.685	61.881	61.312	60.967	60.880
After Shock	61.867	61.685	61.881	61.312	60.966	60.880
Mass Percentage (after Altitude simulation)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Mass Percentage (after Thermal test)	99.99%	99.99%	99.99%	100.00%	100.00%	99.99%
Mass Percentage (after Vibration)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Mass Percentage (after Shock)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Voltage						
Sample Number	1	2	3	4	5	6
Primal	4.14	4.15	4.13	4.14	4.13	4.14
After Altitude simulation	4.14	4.15	4.13	4.14	4.13	4.14
After Thermal test	4.10	4.11	4.09	4.10	4.10	4.10
After Vibration	4.10	4.10	4.09	4.10	4.09	4.09
After Shock	4.09	4.10	4.09	4.09	4.09	4.09
Voltage Percentage (after Altitude simulation)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Voltage Percentage (after Thermal test)	99.03%	99.04%	99.03%	99.03%	99.27%	99.03%
Voltage Percentage (after Vibration)	100.00%	99.76%	100.00%	100.00%	99.76%	99.76%
Voltage Percentage (after Shock)	99.76%	100.00%	100.00%	99.76%	100.00%	100.00%

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Fax: +86-20-3829 0729, 3829 0583

E-mail: itl@iqtc.cn

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Certification for Classify of Danger of Lithium Battery

Sample Name: Li-ion Rechargeable Battery (Model: BP1730-2009
RECHARGEABLE LITHIUM ION BATTERY
9.25Wh 2500mAh 3.7V (4146702))

Manufacture: VIEW TECH LIMITED

Applicant: VIEW TECH LIMITED



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CERTIFICATION

Name & Model	Li-ion Rechargeable Battery (Model: BP1730-2009 RECHARGEABLE LITHIUM ION BATTERY 9.25Wh 2500mAh 3.7V (4146702))		
Cell Type	UF653450S		
Applicant	VIEW TECH LIMITED	Mark	22201300732
Address	No.2, Libo Shui Industrial District, NanYa Bei Lu, Shek Wan Boluo, Huizhou, Guangdong, China		
Appearance & Odor	The battery is solid. The Nominal Voltage is 3.7V, The Rated Capacity is 2500mAh.		
Main Hazards	The corrosive chemical substance is contained in the sealed case. It will do harm when the battery damaged, and it will explode when the battery encounter fire.		
Date of Sample Received	2013-04-01	Date of Accomplished	2013-05-03
Criteria	1) The special provision 188 of chapter 3.3 of Recommendations on the Transport of Dangerous Goods, Model Regulations (Rev.16); 2) The Certificate for Lithium Battery of UN38.3 Safety (01051300002517-1(E)).		
Test Results	For the details, refer to the following page 4 to 5.		
Conclusion	The battery samples are complying with Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations (Rev.16), and not subject to other provisions of these Regulations.		
	<p>AUTHORISED BY</p>  <p>Guo Ren Hong</p>		
Remark	The test results are only valid for the test samples submitted the applicant.		

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Photo of the sample

Package



Battery

Cell



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Inspect results:

Items of standard	Requirement of Standard	Test Result	Conclusion
a	For a lithium metal or lithium alloy cell, the lithium content is not more than 1 g, and for a lithium-ion cell, the Watt-hour rating is not more than 20 Wh.	Not applicable	-----
b	For a lithium metal or lithium alloy battery the aggregate lithium content is not more than 2 g, and for a lithium-ion battery, the Watt-hour rating is not more than 100 Wh. Lithium ion batteries subject to this provision shall be marked with the Watt-hour rating on the outside case. (Remark: Limited Charge Voltage: 4.2V, Charge Current: 1.0 A, Cut-off Voltage: 2.75V, Discharge Current: 0.83A)	28.422Wh	Pass
c	Each cell or battery is of the type proved to meet the requirements of each test in the Manual of Tests and Criteria, Part III, sub-section 38.3.	For the details, refer to Certificate for Lithium Battery of UN38.3 Safety	Pass
d	Cells and batteries, except when installed in equipment, shall be packed in inner packagings that completely enclose the cell or battery. Cells and batteries shall be protected so as to prevent short circuits.	Conformity	Pass
e	Cells and batteries when installed in equipment shall be protected from damage and short circuit, and the equipment shall be equipped with an effective means of preventing accidental activation. When lithium batteries are installed in equipment, the equipment shall be packed in strong outer packagings constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the battery is afforded equivalent protection by the equipment in which it is contained;	Not applicable	-----
f	Except for packages containing no more than four cells installed in equipment or no more than two batteries installed in equipment, each package shall be marked with the following: (i) an indication that the package contains "lithium metal" or "lithium ion" cells or batteries, as appropriate; (ii) an indication that the package shall be handled with care and that a flammability hazard exists if the package is damaged; (iii) an indication that special procedures shall be followed in the event the package is damaged, to include inspection and repacking if necessary; and (iv) a telephone number for additional information;	Conformity	Pass

(To be continued)

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Items of standard	Requirement of Standard	Test Result	Conclusion
g	Each consignment of one or more packages marked in accordance with paragraph (f) shall be accompanied with a document including the following: (i) an indication that the package contains "lithium metal" or "lithium ion" cells or batteries, as appropriate; (ii) an indication that the package shall be handled with care and that a flammability hazard exists if the package is damaged; (iii) an indication that special procedures shall be followed in the event the package is damaged, to include inspection and repacking if necessary; and (iv) A telephone number for additional information.	Conformity	Pass
h	Except when lithium batteries are installed in equipment, each package shall be capable of withstanding a 1.2 m drop test in any orientation without damage to cells or batteries contained therein, without shifting of the contents so as to allow battery to battery (or cell to cell) contact and without release of contents.	Conformity	Pass
i	Except when lithium batteries are installed in or packed with equipment, packages shall not exceed 30 kg gross mass.	Package: 9.25kg	Pass



* * * * *

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No: 01051300002517-4(E)

Date: 2013-05-03

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Cargo Transportation Test Report

Sample Name: Li-ion Rechargeable Battery(Model:
BP1730-2009 RECHARGEABLE LITHIUM
ION BATTERY 9.25Wh 2500mAh 3.7V
(4146702))

Manufacture: VIEW TECH LIMITED

Applicant: VIEW TECH LIMITED



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	<p>A. Hazard Identification:</p> <ol style="list-style-type: none"> 1. Electric energy: 28.422Wh; 2. Test proves that this type of battery pass the UN38.3 test.(01051300002517-1(E)); 3. Test proves that this type of battery pass the 1.2m drop test (01051300002517-2(E)); 4. Batteries are separated so as to prevent short circuits and are packed in strong packaging; 5. Each consignment must be accompanied with a document with an indication including packed with lithium batteries, handled with care, special procedures should be followed in the event that the package is damaged, a telephone number etc; 6. Each package must be labeled with a "lithium battery handling label"; 7. Packages mass: 9.25kg, not exceed 10kg gross mass; 8. Lithium batteries as being defective for safety reasons are forbidden foe transport; 9. Waste lithium batteries and lithium batteries being shipped foe recycling or disposal are prohibited from air transport. <p>B. Suggestion according to DGR:</p> <p>The goods are not subject to DGR.</p> <p>C. Packaging requirements:</p> <p>The goods are packaged according to the packaging instruction 965 Section II of DGR.</p>
Conclusion	<p style="text-align: right;">AUTHORISED BY  Guo Ren Hong</p>
Remark	<p>Be applicable to transport by air.</p>



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Add: 8/F, Tower B, No.66 Huacheng Avenue, Guangzhou, China

Tel: +86-20-3829 0477, 3829 0566

Postcode: 510623

Fax: +86-20-3829 0729, 3829 0583

E-mail: itl@iqtc.cn

Website: www.iqtc.cn

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No: 01051300002517-3 (E)

Date: 2013-05-03

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Cargo Transportation Test Report

Sample Name: Li-ion Rechargeable Battery (Model:
BP1730-2009 RECHARGEABLE LITHIUM
ION BATTERY 9.25Wh 2500mAh 3.7V
(4146702))

Manufacture: VIEW TECH LIMITED

Applicant: VIEW TECH LIMITED



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3. 一般情况,检验结果仅对申请人所送样品负责。 The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

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No: 01051300002517-3 (E)
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Cargo Transportation Test Report

Sample Name	Li-ion Rechargeable Battery (Model: BP1730-2009 RECHARGEABLE LITHIUM ION BATTERY 9.25Wh 2500mAh 3.7V (4146702))		
Cell Type	UF653450S		
Applicant	VIEW TECH LIMITED	Mark	22201300732
Address	No.2, Libo Shui Industrial District, NanYa Bei Lu, Shek Wan Boluo, Huizhou, Guangdong, China		
Appearance & Odor	The battery is solid. The Nominal Voltage is 3.7V. The Rated Capacity is 2500mAh.		
Main Hazards	The corrosive chemical substance is contained in the sealed case. It will do harm when the battery damaged, and it will explode when the battery encounter fire.		
Accepted Date	2013-04-01	Accomplished Date	2013-05-03
Test Standard	1. Recommendations on the Transport of Dangerous Goods, Model Regulations (Rev.16); 2. 《International Maritime Dangerous Goods》; 3. The UN38.3 Test Report; 4. The Drop Test Report.		
Sample Photo	 		

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Conclusion

A. Hazard Identification:

1. Electric energy: 28.422Wh;
2. Test proves that this type of battery pass the UN38.3 test (01051300002517-1(E));
3. Test proves that this type of battery pass the 1.2m drop test (01051300002517-2(E));
4. Batteries are separated so as to prevent short circuits and are packed in strong packaging;
5. Packages mass: 9.25kg, not exceed 30kg gross mass;

B. Suggestion according to IMDG:

The goods are not subject to IMDG.

C. Packaging requirements:

The goods are packaged according to the special provision 188 of IMDG.

AUTHORISED BY



Guo Ren Hong

Remark

Be applicable to transport by sea.



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