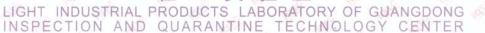


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Add: 8/F., Tower B, No. 66 Huacheng Avenue, Guangzhou, China Tel: +86-20-3829 0477, 3829 0566

Website:www.igtc.cn.

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

E-mail:Itl@iqtc.cn

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2013-05-03 1 of 7 Page:

Certificate for Lithium Battery of UN38.3 Safety

Li-ion Rechargeable Battery (Model: BP1730-2009 Sample Name: RECHARGEABLE LITHIUM ION BATTERY

9.25Wh 2500mAh 3.7V (4146702))

Manufacture: VIEW TECH LIMITED



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Date: 2013-05-03 Page: 2 of 7

TEST REPORT

	· ILUIII		
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	A A	
Address	No.2, Libo Shui Industrial District, China	NanYa Bei Lu,Shek	Wan Boluo, Huizhou, Guangdo
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 Recommendation and Criteria (Rev.5)	ns on the Transport	of Dangerous Goods, Manual of
Sample Description	Batteries of #1, #2, #3, #9 and #10 Batteries of #4, #5, #6, #11 and #1 Batteries of #7 and #8 are cells at	2 are batteries in full	charged after fifty cycle;

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.

Guo Ren Hong

Remark

Conclusion

The test results are only valid for the test samples submitted the applicant.

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2013-05-03 Date: Page: 3 of 7

Photo of the sample





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Date: 2013-05-03 Page: 4 of 7

Test Item	Requirement of Standard	Sample Number	Test Result	Conclusion
Altitude	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 ± 5 °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 ± 2 °C, followed by storage for at least six hours at a test temperature equal to -40 ± 2 °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 ± 5 °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		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	10

(To be continued)

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Date:

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Test Item	Requirement of Standard	Sample Number	Test Result	Conclusion
	Test cells and batteries shall be secured to the testing		e de	
	machine by means of a rigid mount which will support all		and and	
	mounting surfaces of each test battery. Each cell or battery	C. C.	, de	0.00
	shall be subjected to a half-sine shock of peak acceleration	4	S'	
	of 150gn and pulse duration of 6 milliseconds. However,	-0-	No mass loss, no	.50
	large cells and large batteries shall be subjected to a		leakage, no venting,	10
	half-sine shock of peak acceleration of 50gn and pulse	16	no disassembly, no	
	duration of 11 milliseconds. Each cell or battery shall be	#1,#2,	rupture and no fire,	.0.
Shock	subjected to three shocks in the positive direction followed	#3,#4,	the open circuit	Pass
SHOCK	by three shocks in the negative direction of three mutually	#5 #6	voltage of each test	1 033
	perpendicular mounting positions of the cell or battery for a	110,110	cell or battery after	20
	total of 18 shocks. Cells and batteries meet this requirement	id.	testing is not less	101
	if there is no mass loss, no leakage, no venting, no		than 90% of its	
	disassembly, no rupture and no fire and if the open circuit		voltage	.0.
	voltage of each test cell or battery after testing is not less	101	0. 10.	100
	than 90% of its voltage immediately prior to this procedure.	18	, O	
	The requirement relating to voltage is not applicable to test	.0.	100	.0.
- 9	cells and batteries at fully discharged states.	199	0 9 0	19
	The cell or battery to be tested shall be temperature	. 15	10 10 A	. 9
	stabilized so that its external case temperature reaches $55 \pm$	10	10	20
	2 °C and then the cell or battery shall be subjected to a short	- 10	Battery External	10
	circuit condition with a total external resistance of less than	. 4	temperature :	19
	0.1 ohm at 55 ± 2 °C. This short circuit condition is	10	56.7°C, 55.9°C;	20
External	continued for at least one hour after the cell or battery	#1,#4	No disassembly, no	Pass
hort circuit	external case temperature has returned to 55 ± 2 °C. The	#1,#4	rupture and no fire	1 455
	cell or battery must be observed for a further six hours for	10	within six hours of	ac.
	the test to be concluded. Cells and batteries meet this		this test.	777
	requirement if their external temperature does not exceed	1	tills test.	*
	170 °C and there is no disassembly, no rupture and no fire	AS .	Y AND Y	25
100	within six hours of this test.	197	S. W. L.	177
	The test sample cell or component cell is to be placed on a	1	Battery External	V. 9
	flat surface. A 15.8 mm diameter bar is to be placed across	000	temperature :	1000
	the centre of the sample. A 9.1 kg mass is to be dropped	197	85.2°C, 84.5°C;	100
Impact	from a height of (61 ± 2.5) cm onto the sample. Cells and	#7,#8	No disassembly, no	Pass
1	component cells meet this requirement if their external	000	rupture and no fire	CLO
2	temperature does not exceed 170 °C and there is no	W7	within six hours of	1
1 E	disassembly and no fire within six hours of this test.	1	this test.	7

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Date: 2013-05-03 Page: 6 of 7

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.	Marie W	Not applicable	Marie Marie



(To be continued)

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2013-05-03

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Record Table of Mass-Voltage Testing Date

S	ample Model	The state of the s	49		RGEABLE LITH 500mAh 3.7V (4	
S. 19.	3	10 10	Mass	-	29 19	20
Sample Number	0.1	2	3	45	5.5	6.00
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%
and the second	.0.	A. Charles	Voltage	and the	S. S.	.0
Sample Number	<u></u>	2	3	45	5.0	600
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	100.00%	99.76%	100.00%	100.00%	99.76%	99.76%
(after Vibration)	The state of the s		200		200	

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Date: 2013-05-03 Page: 1 of 5

Certification for Classify of Danger of Lithium Battery

Li-ion Rechargeable Battery (Model: BP1730-2009 Sample Name: RECHARGEABLE LITHIUM ION BATTERY

9.25Wh 2500mAh 3.7V (4146702))



VIEW TECH LIMITED

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No: 010513000025

Date: 2013-05-03 Page: 2 of 5

CERTIFICATION

Name & Model	Li-ion Rechargeable Battery (Mo BATTERY 9.25Wh 2500mAh 3.7V (4		RGEABLE LITHIUM ION
Cell Type	UF653450S		
Applicant	VIEW TECH LIMITED	Mark	22201300732
Address	No.2, Libo Shui Industrial District, Na	nYa Bei Lu,Shek Wan Boluo, I	Huizhou, Guangdong, China
Appearance & Odo	The battery is solid. The Nominal Vol	tage is 3.7V, The Rated Capacit	ty is 2500mAh.
Main Hazards	The corrosive chemical substance is damaged, and it will explode when the		will do harm when the batter
Date of Sample Received	2013-04-01	Date of Accomplished	2013-05-03
Criteria	The special provision 188 of chap Goods, Model Regulations (Rev 2) The Certificate for Lithium Batter	.16);	City City
Test Results	For the details, refer to the following	g page 4 to 5.	No. of the last of
Conclusion Remark	The battery samples are complying w DANGEROUS GOODS Model Regulations. The test results are only valid for the	AUTHORISED B Guo Ren Hong	ct to other provisions of these

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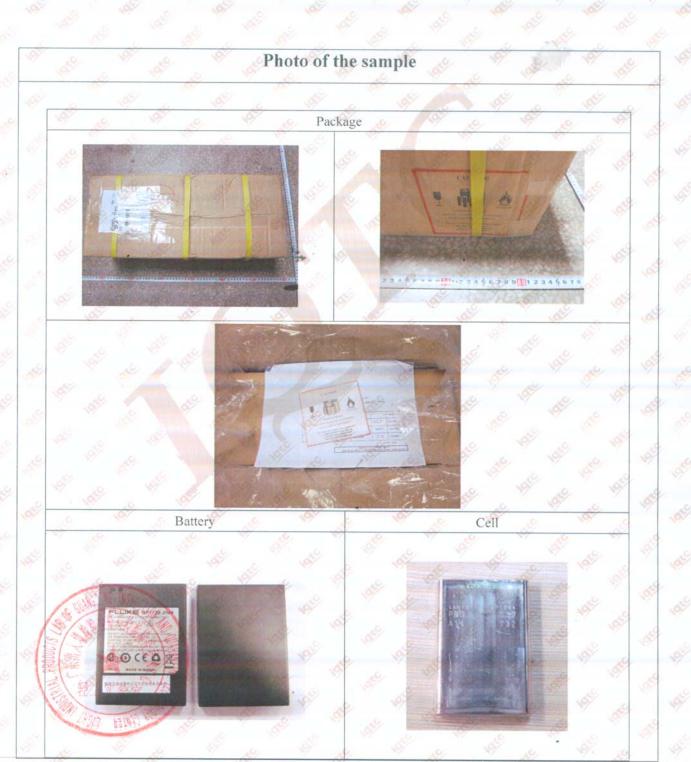
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Items of standard		Test Result	Conclusion
a 🎸	For a lithium metal or lithium alloy cell, the lithium content is not more than 1 g, and for a lithium-ion cell, the Watt-hour rating is not more than 20 Wh.	Not applicable	100
b miles	For a lithium metal 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: 4.2 V, Charge Current: 1.0 A, Cut-off Voltage: 2.75 V, 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 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
AC 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	TATE AND
e 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)

s report does not in any respect absolve the other related parties from his contractual and legal obligations. 一般情况,检验结果仅对电请人所这样品负责。The results shown in this test report refer only to the sample(s) tested unless oth

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Add: 8/F., Tower B, No.66 Huacheng Avenue, Guangzhou, China Tel: +86-20-3829 0477, 3829 0566 Postcode:510623

Website:www.iqtc.cn

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

E-mail:ltl@iqtc.cn

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Items of standard	Requirement of Standard	Test Result	Conclusion
die de	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
e 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
ion	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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Website:www.lqtc.cn

applicant:



2013-05-03 Date:

Page: 1 of 3

Cargo Transportation Test Report

Rechargeable Battery(Model: Sample Name: Li-ion

BP1730-2009 RECHARGEABLE LITHIUM BATTERY 9.25Wh 2500mAh

(4146702)

Manufacture: VIEW TECH LIMITED

VIEW TECH LIMITED

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E-mail:ltl@iqtc.cn

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2013-05-03 Date: 2 of 3 Page:

Cargo Transportation Test Report

	ION BATTERY 9.25Wh 2500mAh 3.7V	P1730-2009 RECHARGEABLE LITHIUM (4146702))
Cell Type	UF653450S	All selections and the selections are selected as a selection of the selec
Applicant	VIEW TECH LIMITED	Mark 22201300732
Address	No.2, Libo Shui Industrial District,Na Guangdong, China	unYa Bei Lu,Shek Wan Boluo, Huizhou,
Appearance & Odo	The battery is solid. The Nominal Voltage	e is 3.7V. The Rated Capacity is 2500mAh.
Main Hazards	The corrosive chemical substance is corwhen the battery damaged, and it will exp	ntained in the sealed case. It will do harm blode when the battery encounter fire.
Accepted Date	2013-04-01 Accomplis	shed Date 2013-05-03
TO . C. 1 1	(Rev.16);	of Dangerous Goods, Model Regulations
Test Standard	2. IATA 《Dangerous Goods Regulation》3. The UN38.3 Test Report;4. The Drop Test Report.	

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Conclusion

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Date: 2013-05-03

Page: 3 of 3

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;
- 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 handing label";
- Packages mass: 9.25kg, not exceed 10kg gross mass;
- 8. Lithium batteries as being defective for safety reasons are forbidden foe transport;
- Waste lithium batteries and lithium batteries being shipped foe recycling or disposal are prohibited from air transport.
- B. Suggestion according to DGR:

The goods are not subject to DGR.

C. Packaging requirements:

The goods are packaged according to the packaging instruction 965 Section II of DGR.

AUTHORISED BY

Guo Ren Hong

Remark Be applicable to

Be applicable to transport by air.

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Add: 8/F.,Tower B,No.66 Huacheng Avenue,Guangzhou,China Tel: +86-20-3829 0477, 3829 0566

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2013-05-03 Date: Page:

Cargo Transportation Test Report

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

Manufacture: VIEW TECH LIMITED



VIEW TECH LIMITED

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Date:

2013-05-03

Page:

2 of 3

Cargo Transportation Test Report

Sample Name	Li-ion Rechargeable Battery ION BATTERY 9.25Wh 250		RECHARGEABLE LITHIUM
Cell Type	UF653450S		
Applicant	VIEW TECH LIMITED	THE TOTAL STREET	Mark 22201300732
Address	No.2, Libo Shui Industrial Guangdong, China	District, Nan Ya Bei Lu	,Shek Wan Boluo, Huizhou
Appearance & Odo	The battery is solid. The Nor	minal Voltage is 3.7V. The	Rated Capacity is 2500mAh.
Main Hazards	The corrosive chemical sub when the battery damaged, a		e sealed case. It will do harm ne battery encounter fire.
Accepted Date	2013-04-01	Accomplished Date	2013-05-03
ete de de		21 2	us Goods, Model Regulations
Test Standard	 Recommendations on the (Rev.16); 《International Maritime The UN38.3 Test Report The Drop Test Report 	he Transport of Dangeron Dangerous Goods ;	us Goods, Model Regulation
Test Standard	(Rev.16); 2. 《International Maritime 3. The UN38.3 Test Report	he Transport of Dangeron Dangerous Goods ;	us Goods, Model Regulations

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01051300002517-3(E)

2013-05-03 Date: 3 of 3

- 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
- 5. Packages mass: 9.25kg, not exceed 30kg gross mass;
- B. Suggestion according to IMDG: The goods are not subject to IMDG.

Conclusion

C. Packaging requirements:

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

LUTHORISED BY

Guo Ren Hong

Be applicable to transport by sea. Remark

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