

Pony Testing International Group

NO.: 10110821-017

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SAMPLE DESCRIPTION

Sample Name	LITHIUM METAL BATTERY		Battery Type	R 435
Manufacturer	J N J CO.,LTD			
Client	J N J CO.,LTD			
Nominal Voltage	3.0V	Rated Capacity		45mAh
Limited charge Voltage		Charge current		
Maximum continuous charge current		End charge current		
Chemical component	Li/CFx	Maximum Discharge Current		6mA
Client date	2010.11.08	Finished date		2010.11.26

II. STANDARD

RECOMMENDATIONS ON TRANSPORT OF DANGEROUS GOODS, MANUAL OF TEST AND CRITERIA, SECTON 38.3 LITHIUM BATTERIES (ST/SG/AC.10/11/Rev 4 section 38.3)

Ⅲ. TEST ITEM

- 1. Altitude simulation
- 2. Thermal test
- 3. Vibration
- 4. Shock
- 5. External short circuit
- 6. Impact
- 7. Forced discharge

TV CONCLUSION

. CONCLUCION				
ITEN 4	SAMPLE NUMBER		STANDARD	CONCLUSION
ITEM	Charged	Discharge	OTANDATO	00,102001011
Altitude simulation			UN38.3	PASS
Thermal test				PASS
Vibration	N1~N10	N11~N20		PASS
Shock				PASS
External short circuit				PASS
Impact	C1~C5	C6~C10		PASS
Forced discharge		C11~C20		PASS
1 0,000 1.501101.50				

The submitted samples were complied with the stated requirements of ST/SG/AC.10/11/Rev 4 section 38.3.

Compiled by: Cufy cao Checked by: Kobe Womp

Approved by:

zhang daigin

本检测单位保证检测的客观公正性。并对委托单位的商业秘密履行保密义务。委托单位对样品的代表性和资料的真实性负责,本检测单位仅对样品负责。委托单位 时于检测结果的使用、使用所产生的直接或间接损失及一切法律后果。本检测单位不承担任何经济和法律责任;本《检测报告》如无PONY专用章和批准人签字或 恢复制、则无效;任何对本《检测报告》未经授权的部分或全部转载、篡改、伪造或复制行为都是违法的。将被追究民事、行政甚至刑事责任。

转传说明:(1)《检测报告》的报告编号是唯一的,即每一个报告编号仅对应唯一的《检测报告》; (2)《检测报告》采用特制防伪纸张印制、纸张表面带有"PONY"防伪纹路、该防伪纹路不支持复印,即复制件不会带有"PONY"防伪纹路; (3)《检测报告》采用的防伪纸张内部亦加带有高科技"PONY"防伪水印,只有在验钞机等紫外线照射下方可显出无色荧光防伪字样; (4)《检测报告》所盖防伪骑维章中的一部分加流于本检测单位的贸属报告上,《检测报告》与本检测单位留属报告的编维章应拼合完整无缺。

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Test Report No. F690501/LF-CTSAYAA10-40888

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Sample No.

: AYAA10-40888.001

Sample Description

: Lithium Battery (CFx)

Item No./Part No.

: R-435 (327)

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008, ICP	0.5	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008, ICP	5	N.D.
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008, ICP	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	With reference to IEC 62321:2008, UV-VIS	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	S Unit Test Method		MDL	Results
Monobromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Monobromodiphenyl ether	_ mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.

NOTE:

Crt PBI AY Cd Crl 23

Dist

V41 Gra

- (1) N.D. = Not detected.(<MDL)
- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

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SGS

Test Report No. F690501/LF-CTSAYAA10-40888

Issued Date: December 10, 2010 Page 1 of 4

To: JNJ CO., LTD. 217 Suyang-ri Silchon-eup

Gwangju-city Gyeonggi-do Korea

The following merchandise was submitted and identified by the client as :

SGS File No.

: AYAA10-40888

Product Name

: Lithium Battery (CFx)

Item No./Part No.

: R-435 (327)

Received Date

: Dec. 07, 2010

Test Period

: Dec. 08, 2010 to Dec. 10, 2010

Test Performed

: SGS Testing Korea tested the sample(s) selected by applicant with following results

Test Results

: For further details, please refer to following page(s)

Comments

: By the applicant is specific request, the sampling and testing was performed only for the part

indicated in the photo without disassembly.

SGS Testing Korea Co. Ltd.

Timothy Jeon Jinhee Kim Cindy Park Jerry Jung/ Testing Person

Jeff Jang / Chemical Lab Mgr

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