

Inter-Union Technohandel GmbH Carl-Benz-Str. 2

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Prüfzusammenfassung nach UN 38.3 für Lithium-Akkus/-Batterien Test Summary according to UN 38.3 for Lithium accumulators and batteries

Sehr geehrte Damen und Herren, Dear Ladies and Gentlemen,

Inter-Union Technohandel GmbH | Postfach 12 04 | 76758 Rülzheim

gemäß den Anforderungen nach UN 38.3 für Lithium-Akkus/-Batterien übersenden wir Ihnen im Anhang dieses Schreibens die Prüfzusammenfassung für folgendes Produkt und dem darin enthaltenen Lithium-Batterie-Typ:

according to the requirements of UN 38.3 for Lithium accumulators/batteries, we are sending you as attachment the Test Summary for the following product and the contained Lithium-Battery-Type:

IU-Artikel-Nummer	rtikel-Nummer GTIN	
IU item number		Battery type
47012	4008153470127	CR2032

Mit freundlichen Grüßen / Best regards

Inter-Union Technohandel GmbH

i. A. Michael Bernhart Leiter Qualitätssicherung

Anlage/Attachment:

- Prüfzusammenfassung / Test Summary

LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3 OF MANUAL OF TESTS AND CRITERIA

N/A = Not Applicable

1.	Name of cell / battery
	LITHIUM CELL warrios CR2032 3V 210mAh

2. Manufacturer of cell / battery			
Name			
Address			
Phone			
Email			
Website			

3. Test labo	3. Test laboratory of cell / battery			
Name	Shanghai Research Institute of Chemical Industry Testing Centre			
Address	Nb. 2779 Guangfu West Road, Putuo District, Shanghai, China			
Phone	86- 21- 31765555			
Email	bat t ery@hs. cn			
Website	www ghs. cn			

4. ID-number and date			
Unique test report identification number	1114010125	Date of test report	20140305

DESCRIPTION OF CELL / BATTERY

5. M	5. Mark the type of cell/battery with an "•"				
0	Lithium ion cell	Lithium metal cell			
0	Lithium ion battery	Lithium metal battery			
0	Lithium hybrid battery				

6. Parameters	Cell	Battery
Mass in gram (g):		3
Lithium ion: Indicate watt-hour rating (Wh):		0. 63
Lithium metal: Indicate lithium metal content in gram (g):		
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):		3 g



LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3 OF MANUAL OF TESTS AND CRITERIA

Name	of	cell/bat	tery	(taken	from	field	1)

JM CELL warrios CR2032 3V 21

7.	Physical description of cell / battery			
	Silvery Button			
8.	Model numbers			
	CR2032			
TE	TESTS AND DESITITS			

9. List of tests conducted and results - Mark N/A, pass or fail with an "•"	N/A	pass	fail
T1 - Altitude simulation		0	
T2 - Thermal Test		0	
T3 - Vibration		0	
T4 - Shock		0	
T5 - External Short Circuit		0	
T6 - Impact / Crush		0	
T7 - Overcharge	0		
T8 - Forced Discharge		0	
		0	

10. Reference to assembled battery testing requirements		
ST/SG/AC. 10/11/Rev. 5/Anmend. 1 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOOD! Manual of Tests and Criteria ST/SG/AC. 10/11/Rev. 5/Anmend. 1 38.3	N/A	

11.	Reference to the revised edition of the Manual of Tests a	nd Criteria used and to amendments thereto
	시구 그 그 사이들이 살아가 가장하는 사람들은 사이 사이를 하고 있다면 하는데 그 가장이 되었다. 그 그 그 이번 이번 사람들은 그 이 그는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	NATIONS "Recommendations on the TRANSPOR Criteria ST/SG/AC.10/11/Rev.5/Amend.1 38



LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3 OF MANUAL OF TESTS AND CRITERIA

Name of cell/battery (taken from field 1)

JM CELL warrios CR2032 3V 21

YES

NO O

ADDITIONAL SUPPLIER INQUIRY

12. Quality management system for manufacturing cells / batteries Does the manufacturer of the cell/battery manufacture the products based on a documented quality management system according to transport regulations?		YES	NO	
13. Are the following parameters exceeded? Lithium ion cell: more than 20 Wh Lithium ion battery: more than 100 Wh Lithium metal cell: more than 1 g Lithium Lithium metal battery: more than 2 g Lithium Lithium hybrid Battery: more than 1,5 g Lithium and/or more than 10 Wh	\bigcirc	YES	NO	•
Check point 14 – 16 need to be answered when 13 has been ticked "YES":				
14. Does each cell / battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?		YES	NO	\bigcup
15. Is each cell / battery equipped with an effective means of preventing external short circuits?	•	YES	NO (
16. Is each battery containing cells or series of cells connected in parallel equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.)?	•	YES	NO	\bigcup
	,	004	74 94	
 Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells/batteries and lithium polymer cells/batteries 		Sin i		
	-			ASSESSED VALUE OF THE PARTY OF

CELLS/BATTERIES INSTALLED IN EQUIPMENT

State of Charge (SoC) max. 30 %

18. Check point 18 needs	to be answered when the cells /	batteries are insta	alled in ar	ticles:				
18.a) Only button cells enclosed?					•	YES	NO	0
18.b) Number of enclosed	d cells (other than button cells)/ba	atteries per equipm	ent			•		
Enclosed co	ells per equipment	Er	Enclosed batteries per equipmen					
When the equipment is in	ntentionally active/switched on du	uring transport e.g.	data logg	ers:			100	
18.c) Confirmation that no dangerous amount of heat is emitted from the equipment					•	YES	NO	
18.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160				N/A	•	YES	NO	
19. Place, Date	20. Title, Surname, First nam	21, Company stamp and signature						
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