

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

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

3. Test laboratory of cell / battery	
Name	
Address	
Phone	
Email	
Website	

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

DESCRIPTION OF CELL / BATTERY

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

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

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Name of cell/battery (taken from field 1)

7. Physical description of cell / battery

8. Model numbers

TESTS AND RESULTS

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

10. Reference to assembled battery testing requirements
N/A

11. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto



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Name of cell/battery (taken from field 1)

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	
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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		YES	NO	
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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	
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.)?		N/A	YES	NO

17. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells/batteries and lithium polymer cells/batteries				
State of Charge (SoC) max. 30 %		YES	NO	

CELLS/BATTERIES INSTALLED IN EQUIPMENT

18. Check point 18 needs to be answered when the cells / batteries are installed in articles:				
18.a) Only button cells enclosed?		YES	NO	
18.b) Number of enclosed cells (other than button cells)/batteries per equipment				
	Enclosed cells per equipment		Enclosed batteries per equipment	
When the equipment is intentionally active/switched on during transport e.g. data loggers:				
18.c) Confirmation that no dangerous amount of heat is emitted from the equipment		N/A	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 name	21. Company stamp and signature



Cassie





TEST SUMMARY

LITHIUM CELLS AND BATTERIES



Lithium cell or battery test summary in accordance with sub-section 38.3 of Manual of Tests and Criteria

Manufacturer (if applicable): _____
 Address: _____
 Phone number: _____
 Email: _____
 Website: _____

Test laboratory: _____
 Adresse: _____
 Phone number: _____
 Email: _____
 Website: _____

Test report identification number: _____
 Date of test report: _____

Lithium ion cell (battery) Lithium metal cell (battery)
 Masse: _____ Wh _____ g lithium content
 Description of cell/battery: _____

Product model number: _____

Test	Cells		Batteries		Single cells		Component cells	
	pass	fail	pass	fail	pass	fail	pass	fail
T.1 Altitude simulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
T.2 Thermal test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
T.3 Vibration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
T.4 Shock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
T.5 External short circuit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
T.6 Impact/Crush	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>
T.7 Overcharge			<input type="checkbox"/>		<input type="checkbox"/>	*		
T.8 Forced discharge	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>

* lithium ion only / with overcharge protection

** not transported separately from the battery, otherwise same test as cells

Met requirements for assembled battery testing? yes no
 (if applicable)

The requirements of the 7th revised edition "Manual of Tests and Criteria, Part III, Subsection 38.3" for each cell / battery have been met and the cells/batteries fully meet the requirements International Dangerous Goods Regulations ADR/RID/ADN/IMDG-Code/IATA-DGR!

Date: _____ Place: _____

 (Signature/title)

