

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 "•"			
<input type="checkbox"/>	Lithium ion cell	Lithium metal cell	<input type="checkbox"/>
<input type="checkbox"/>	Lithium ion battery	Lithium metal battery	<input type="checkbox"/>
<input type="checkbox"/>	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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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

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

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		
				