

# 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

<b>1. Name of cell / battery</b>

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

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

<b>4. ID-number and date</b>			
Unique test report identification number		Date of test report	

## DESCRIPTION OF CELL / BATTERY

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

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

<b>7. Physical description of cell / battery</b>

<b>8. Model numbers</b>

## TESTS AND RESULTS

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

<b>10. Reference to assembled battery testing requirements</b>
N/A

<b>11. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto</b>

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## ADDITIONAL SUPPLIER INQUIRY

<b>12. Quality management system for manufacturing cells / batteries</b> 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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<b>13. Are the following parameters exceeded?</b> 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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<b>Check point 14 – 16 need to be answered when 13 has been ticked "YES":</b>				
<b>14.</b> Does each cell / battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?		YES	NO	
<b>15.</b> Is each cell / battery equipped with an effective means of preventing external short circuits?		YES	NO	
<b>16.</b> 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

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

## CELLS/BATTERIES INSTALLED IN EQUIPMENT

<b>18. Check point 18 needs to be answered when the cells / batteries are installed in articles:</b>				
<b>18.a) Only button cells enclosed?</b>		YES	NO	
<b>18.b) Number of enclosed cells (other than button cells)/batteries per equipment</b>				
	Enclosed cells per equipment		Enclosed batteries per equipment	
<b>When the equipment is intentionally active/switched on during transport e.g. data loggers:</b>				
<b>18.c) Confirmation that no dangerous amount of heat is emitted from the equipment</b>		N/A	YES	NO
<b>18.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160</b>		N/A	YES	NO

<b>19. Place, Date</b>	<b>20. Title, Surname, First name</b>	<b>21. Company stamp and signature</b>