

**LITHIUM 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/Description of battery</b>
<b>1.a) Name/Description of the cells inside the battery</b>

The test summary of the cells inside the battery must either be presented or under checkpoint 10 and 10.a) it must be confirmed that the UN 38.3 test summary for the cells is available.

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

<b>3. Manufacturer of the equipment (if the battery is contained in equipment)</b>	
Name	
Address	
Phone	
Email	
Website	

<b>4. Test laboratory of battery</b>	
Name	
Address	
Phone	
Email	
Website	

<b>5. ID-number and date</b>			
Unique test report identification number:		Date of test report:	

<b>6. Mark the type of battery and delivered as with an "☒"</b>					
<input type="radio"/>	Lithium ion battery	<input type="radio"/>	delivered as UN 3480	<input type="radio"/>	delivered as UN 3481
<input type="radio"/>	Lithium metal battery	<input type="radio"/>	delivered as UN 3090	<input type="radio"/>	delivered as UN 3091
<input type="radio"/>	Lithium hybrid battery	<input type="radio"/>	delivered as UN 3090	<input type="radio"/>	delivered as UN 3091

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Name/Description of battery (taken from field 1)

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

8. Physical description of battery

9. Model numbers

**TESTS AND RESULTS**

10. List of tests conducted and results - Mark N/A, pass or fail with an "☒"	N/A	Pass	fail
T1 - Attitude simulation	○	○	○
T2 - Thermal Test	○	○	○
T3 - Vibration	○	○	○
T4 - Shock	○	○	○
T5 - External Short Circuit	○	○	○
T6 - Impact - for cylindrical cells having a diameter of at least 18 mm See check point 1a and 10a.	○	○	○
T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm. See check point 1a and 10a.	○	○	○
T7 - Overcharge	○	○	○
T8 - Forced Discharge, only valid for cells. See check point 1a and 10a.	○	○	○

10.a) UN 38.3 Test Confirmation for the Cells inside the battery - Mark with an "☒"			
When no separate document for the cells is provided, this confirms that the cells inside the battery (see checkpoint 1.a.) have successfully passed the UN 38.3 test. In this case under checkpoint 10 the T.6 and T.8 must be marked as „passed“ and here under 10.a. „Cell UN 38.3 Test confirmed“ needs to be ticked.	○	Cell UN 38.3 Test <b>confirmed</b>	Cell UN 38.3 Test <b>NOT confirmed</b>

11 Reference to assembled battery testing requirements		
	N/A	

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

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**ADDITIONAL SUPPLIER INQUIRY**

13. Quality management system for manufacturing batteries				
Does the manufacturer of the battery manufacture the products based on a documented quality management system according to transport regulations?	<input type="radio"/>	YES	NO	<input type="radio"/>

14. Are the following parameters exceeded?				
<b>Lithium ion battery:</b> more than 100 Wh	<input type="radio"/>	YES	NO	<input type="radio"/>
<b>Lithium metal battery:</b> more than 2 g Lithium				
<b>Lithium hybrid Battery:</b> more than 1,5 g Lithium and/or more than 10 Wh				

Check point 15 – 17 need to be answered when 14 has been ticked “YES“:						
15. Does each battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?	<input type="radio"/>	YES	NO	<input type="radio"/>		
16. Is each battery equipped with an effective means of preventing external short circuits?	<input type="radio"/>	YES	NO	<input type="radio"/>		
17. 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.)?	<input type="radio"/>	N/A	<input type="radio"/>	YES	NO	<input type="radio"/>

18. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion batteries and lithium polymer batteries						
State of Charge (SoC) max. 30 %	<input type="radio"/>	N/A	<input type="radio"/>	YES	NO	<input type="radio"/>

**BATTERIES INSTALLED IN EQUIPMENT**

19. Check point 19 needs to be answered when the batteries are installed in articles:						
19.a) Only button cells enclosed?	<input type="radio"/>	YES	NO	<input type="radio"/>		
19.b) Number of enclosed batteries per equipment						
When the equipment is intentionally active/switched on during transport e.g. data loggers:						
19.c) Confirmation that no dangerous amount of heat is emitted from the equipment	<input type="radio"/>	N/A	<input type="radio"/>	YES	NO	<input type="radio"/>
19.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160	<input type="radio"/>	N/A	<input type="radio"/>	YES	NO	<input type="radio"/>

20. Place, Date	21. Title, Surname, First name	22. Company stamp and signature