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	
	ET-D1081	

2. Manufac	turer of cell / battery
Name	SUMEC Hardware & Tools Co., Ltd.
Address	1# Xinghuo Road, Nanjing High-Tech Zone, 210061 Nanjing, P. R. China
Phone	
Email	
Website	

3. Test laboratory of cell / battery		
Name	Merotec GmbH	
Address	Otto-Brenner-Str. 8, 47877 Willich, Germany	
Phone	+49 2154 89197 20	
Email	qm@merotec.eu	
Website		

4. ID-number and date			
Unique test report identification number	MT-38d3d5-2020-0020	Date of test report	30.04.2020

DESCRIPTION OF CELL / BATTERY

5. Mark the type of cell/battery with an "•"		
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):		199
Lithium ion: Indicate watt-hour rating (Wh):		16,2
Lithium metal: Indicate lithium metal content in gram (g):		
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):		g
		W

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

Name of cell/battery (taken from field 1)
ET-D1081

Triangular column, approx 40 mm x 36 mm x 90 mm, contacts at the top.	

8. Model numbers		
ET-D1081	The Control of the supplied HALP	

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	0	•	0
T2 - Thermal Test	Ŏ	•	Ŏ
T3 - Vibration	Ŏ	0	Ŏ
T4 - Shock	Ŏ	(Ŏ
T5 - External Short Circuit	Ŏ	•	Ŏ
T6 - Impact / Crush	Ŏ	•	Ŏ
T7 - Overcharge	Ŏ	•	Ŏ
T8 - Forced Discharge	Ŏ	•	Ŏ
	Ŏ	Ŏ	Ŏ
	Ŏ	Ŏ	Ŏ

10. Reference to assembled battery testing requirements					
	N/A	_/			
(mertin)		•			

11. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto				
	Section 38.3 of ST/SG/AC.10/11/Rev.6 (including Amendment 1)			

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Name of cell/battery (taken from field 1)

ET-D1081

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	\bigcirc
		7		
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	C	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	0
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	
 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	0

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 a air transport standards for electromagnetic radiation ac				

19. Place, Date	20. Title, Surname, First name	21. Compai	21. Company stamp and signature	
Wilich, 30.04.2020	Wohlrab, Dirk Manager Quality Testing	R.	MEROTEC GmbH Otto-Brenner-Str. 8	

D - 47877 Willich

