

LITHIUM CELL/BATTERY TEST SUMMARY

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

1 GENERAL

1.1 Name of cell / battery	20 V Battery Pack (4.0Ah, 80Wh, 321500000022-0-1)
1.2 Model numbers	321500000022-0-1
1.3 Manufacturer of cell / battery	
Name	Honsel Fastener Wuxi Co. Ltd.
Address	Building 17, No.55 Hongchang Road, Hongshan Subdistrict, XinWu District, Wuxi City, Jiangsu Province, CHINA
Phone	+86-510-81155902-853
Email	Rebecca.yang@honsel.cn
Website	www.honsel.cn
1.4 Test laboratory of cell / battery	
Name	Shanghai Research Institute of Chemical Industry Testing Co. Ltd
Address	West entrance, No.345 East Yunling Road, Shanghai
Phone	+86-21-52569800
Email	wyorama@gmail.com
Website	www.ghs.cn

1.5 ID-number and date	
Unique test report identification number	212501937030936
Date of test report	7/17/2025

2 DESCRIPTION OF CELL / BATTERY

2.1 Type of cell/battery:	Lithium-ion battery
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2.2 Parameters	Cell	Battery
Mass in gram (g):	43	641
Lithium ion: Indicate watt-hour rating (Wh):	7.02	80,0
Nominal Voltage (V):	3.6	18,0
Rated Capacity (Ah):	2.0	4.0

2.3 Physical description of cell / battery:	Rechargeable Lithium Battery, black plastic cement shell
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3 TESTS AND RESULTS

N/A = Not Applicable

3.1 List of tests conducted and results	N/A	PASS	FAIL
T1 - Altitude simulation		X	
T2 - Thermal Test		X	
T3 - Vibration		X	
T4 - Shock		X	
T5 - External Short Circuit		X	
T6 - Impact / Crush		X	
T7 - Overcharge		X	
T8 - Forced Discharge		X	
3.2 Reference to assembled battery testing requirements:	X		

3.3 Reference to the revised edition of the Manual of Tests and Criteria used and to amendments there to:
ST/SG/AC. 10/11 Rev.6 38.3 UNITED NATIONS "Recommendations of the TRANSPORT OF DANGEROUS GOODS"

4 ADDITIONAL SUPPLIER INQUIRY

4.1 Quality management system for manufacturing cells / batteries		YES	NO
Does the manufacturer of the cell/battery manufacture the products based on a documented quality management system according to transport regulations?		X	
4.2 Are the following parameters exceeded?		YES	NO
Lithium ion cell: more than 20 Wh Lithium ion battery: more than 100 Wh Lithium metal cell: more than 1g Lithium Lithium metal battery: more than 2 g Lithium Lithium hybrid Battery: more than 1,5 g Lithium and/or more than 10 Wh			X
if 4.2 "NO" -> 4.2.1 to 4.2.3 is not applicable (N/A)	N/A		
4.2.1 Does each cell / battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?	X		
4.2.2 Is each cell/battery equipped with an effective means of preventing external short circuits?	X		
4.2.3 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.)?	X		
4.3 Only in air transport: State of Charge (SoC) for UN3480 Lithium ion cells/batteries and lithium polymer cells/batteries		YES	NO
State of Charge (SoC) max. 30 %		X	

5 CELLS/BATTERIES INSTALLED IN EQUIPMENT

The Point 5.1 – 5.4 only needs to be answered when the cells / batteries are installed in articles:		YES	NO	
5.1 Only button cells enclosed?			X	
5.2 Number of enclosed cells (other than button cells)/batteries per equipment				
5.2.1	Number of enclosed cells per equipment	10		
5.2.2	Number of enclosed batteries per equipment	1		
When the equipment is intentionally active/switched on during transport e.g. data loggers:		N/A	YES	NO
5.3 Confirmation that no dangerous amount of heat is emitted from the equipment		X		
5.4 Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160		X		

Neumünster, 8/12/2025

Product Management, Sebastian Rousseau