

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
Lithium-metal-cell: LS14250

2. Manufacturer of cell / battery	
Name	Saft Civil Electronics Division
Address	Rue Georges Leclanche, BP 1039; 86000 Poitiers
Phone	+33 (0) 549554848
Email	Lithiumsales.fr@saftbatteries.com
Website	https://www.saftbatteries.com

3. Test laboratory of cell / battery	
Name	Saft Civil Electronics Division
Address	Rue Georges Leclanche, BP 1039; 86000 Poitiers
Phone	+33 (0) 549554848
Email	Lithiumsales.fr@saftbatteries.com
Website	https://www.saftbatteries.com

4. ID-number and date			
Unique test report identification number	LS14250-07-2018-1	Date of test report	13.06.2018

DESCRIPTION OF CELL / BATTERY

5. Mark the type of cell/battery with an "•"			
☐	Lithium ion cell	Lithium metal cell	☒
☐	Lithium ion battery	Lithium metal battery	☐
☐	Lithium hybrid battery		

6. Parameters	Cell	Battery
Mass in gram (g):	8,7	
Lithium ion: Indicate watt-hour rating (Wh):		
Lithium metal: Indicate lithium metal content in gram (g):	0,3	
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):		g Wh



Web: www.unidomo.de

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Öffnungszeiten: Mo.-Fr. 8:00-17:00 Uhr

VIESSMANN



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Markenhersteller

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Name of cell/battery (taken from field 1)

Lithium-metal-cell: LS14250

7. Physical description of cell / battery

Primary ½ AA sized single cell

8. Model numbers

All LS14250 cell versions that just vary by their termination mode or labeling

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

UN Manual of Tests and Criteria Part III, sub-section 38.3 Revision 6th

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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	☐
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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	☒
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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	☐
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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				
1	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
16.12.2019	purchasing and manufacturing manager: Berger Martin	 RSI-Elektronik GmbH & Co. KG Industriellelektronik Wölkestr. 11 - Tel. 0 84 44 / 92 04 - 0 85301 Schwallenkirchen