

LITHIUM 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/Description of battery	
PRIMEDIC Batterie 6	

1a. Name/Description of the cells inside the battery	
FDK CR 17450 EG	

The test summary of the cells inside the battery must either be presented or under checkpoint 9 and 9a it must be confirmed that the UN 38.3 test summary for the cells is available.

2. Manufacturer of battery	
Name	Metrax GmbH
Address	Rheinwaldstraße 22, 78628 Rottweil, Deutschland
Phone	+49 741 257-0
Email	info@primedic.com
Website	www.primedic.com

2a. Manufacturer of the equipment (if the battery is contained in equipment)	
Name	Metrax GmbH
Address	Rheinwaldstraße 22, 78628 Rottweil, Deutschland
Phone	+49 741 257-0
Email	info@primedic.com
Website	www.primedic.com

3. Test laboratory of battery	
Name	VDE Prüf- und Zertifizierungsinstitut
Address	Merianstraße 28, 63069 Offenbach, Deutschland
Phone	+49 69 8306 8646
Email	andreas.hasenstab@vde.com
Website	www.vde.com

4. ID-number and date			
Unique test report identification number	40042987	Date of test report	15.09.2015

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DESCRIPTION OF BATTERY

5. Mark the type of battery with an "•"	
<input type="radio"/> Lithium ion battery	Lithium metal battery <input checked="" type="radio"/>
<input type="radio"/> Lithium hybrid battery	

6. Parameters	
Mass in gram (g):	530
Lithium ion: Indicate watt-hour rating (Wh):	
Lithium metal: Indicate lithium metal content in gram (g):	12,45
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):	g Wh

7. Physical description of battery
Energy module for a medical device (Defibrillator)

8. Model numbers
97641

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	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T2 - Thermal Test	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T3 - Vibration	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T4 - Shock	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T5 - External Short Circuit	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T6 - Impact - for cylindrical cells having a diameter of at least 18 mm See check point 1a and 9a.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
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 9a.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
T7 - Overcharge	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
T8 - Forced Discharge, only valid for cells. See check point 1a and 9a.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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9a. UN 38.3 Test Confirmation for the Cells inside the battery 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 9 the T.6 and T.8 must be marked as „passed“ and here under 9.a. „Cell UN 38.3 Test confirmed“ needs to be ticked.	<input type="radio"/>	Cell UN 38.3 Test confirmed	Cell UN 38.3 Test NOT confirmed	<input checked="" type="radio"/>

10. Reference to assembled battery testing requirements			
		N/A	<input checked="" type="checkbox"/>

11. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto			
Empfehlungen für die Beförderung gefährlicher Güter Handbuch über Prüfungen und Kriterien Fünfte überarbeitete Ausgabe, Revision 2 ST/SG/AC.10/11/Rev.5/Amend.2 38.3 Lithium-Ionen- und Lithium-Metall-Batterien			

ADDITIONAL SUPPLIER INQUIRY

12. 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 checked="" type="radio"/>	YES	NO	<input type="radio"/>

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

Check point 14 – 16 need to be answered when 13 has been ticked "YES":						
14. Does each battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?	<input checked="" type="radio"/>	YES	NO	<input type="radio"/>		
15. Is each battery equipped with an effective means of preventing external short circuits?	<input checked="" type="radio"/>	YES	NO	<input type="radio"/>		
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.)?	<input type="radio"/>	N/A	<input checked="" type="radio"/>	YES	NO	<input type="radio"/>

17. 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 checked="" type="radio"/>	N/A	<input type="radio"/>	YES	NO	<input type="radio"/>




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BATTERIES INSTALLED IN EQUIPMENT

18. Check point 18 needs to be answered when the batteries are installed in articles:			
18.a) Only button cells enclosed?	<input type="radio"/>	YES	NO <input checked="" type="radio"/>
18.b) Number of enclosed batteries per equipment			15
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	<input type="radio"/>	N/A	<input checked="" type="radio"/> YES NO <input type="radio"/>
18.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160	<input checked="" type="radio"/>	N/A	<input type="radio"/> YES NO <input type="radio"/>

19. Place, Date	20. Title, Surname, First name	21. Company stamp and signature
Rottweil, 26.02.2020	QMR, Heim, Marco	 Digital unterschrieben von Marco Heim Datum: 2020.02.26 08:32:35 Rheinwaldstr. 22 · 78628 Rottweil

