

# LITHIUM CELL TEST SUMMARY AND SUPPLIER INQUIRY

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

<i>Name/Description of cell / model n o. of Product</i>	
Lithium polymer battery	TG-SW1

## *Manufacturer of cell*

Name	Shenzhen Theurgy Technology Co.,Ltd
Address	5 floor, NO.8, First Industrial Zone, Liaokeng, Shiyan town, Baoan district, Shenzhen
Phone	0755-29163899
E-Mail	wanghai@mitacbattery.com
Website	

## *Manufacturer of the equipment (if the cell is contained in equipment)*

Name	Technaxx Deutschland GmbH & Co. KG
Address	Kruppstraße 105, 60388 Frankfurt am Main
Phone	+49 [69] 90 47552 0
E-Mail	Zentrale@technaxx.de
Website	<a href="http://www.technaxx.de/">http://www.technaxx.de/</a>

## *Test laboratory of cell*

Name	<i>Pony Testing International Group</i>
Address	
Phone	400-819-5688
E-Mail	
Website	<a href="http://www.ponytest.com">www.ponytest.com</a>

## *ID-number and date*

<i>Unique test report identification number</i>	MNIDILEM89961721
<i>Date of test report</i>	2019-04-04

## *DESCRIPTION OF CELL ( Mark with an "X")*

<i>Lithium ion cell</i>	X
<i>Lithium metal cell</i>	

## *Parameters*

<i>Mass in gram (g):</i>	3.7
<i>Lithium ion: Indicate watt-hour rating (Wh):</i>	1.036
<i>Lithium metal: Indicate lithium metal content in gram (g):</i>	

## *Physical description of cell*

Lithium polymer battery
-------------------------

## *Model numbers*

352224
--------

### TESTS AND RESULTS

<i>List of tests conducted and results</i> <i>- Mark N/A, pass or fail with an "X"</i>	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 - for cylindrical cells having a diameter of at least 18 mm		X	
T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm		X	
T7 - Overcharge		X	
T8 - Forced Discharge		X	

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

--

### ADDITIONAL SUPPLIER INQUIRY

<i>Mark Yes or no with an "X"</i>	Yes	No
<i>Quality management system for manufacturing cells</i> <i>Does the manufacturer of the cell/battery manufacture the products based on a documented quality management system according to transport regulations?</i>	X	
<i>Are the following parameters exceeded?</i> <i>Lithium ion cell: more than 20 Wh</i> <i>Lithium metal cell: more than 1 g Lithium</i>		X

*Check point 13 - 15 need to be answered when 12 has been ticked "YES":*

<i>Mark Yes or no with an "X"</i>	Yes	No
<i>Does each cell incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?</i>	X	
<i>Is each cell equipped with an effective means of preventing external short circuits?</i>	X	
<i>Is each battery containing cells or series of cells connected in parallel equipped with effective means as necessary to prevent dangerous reverse</i>		




current flow (e.g. diodes, fuses, etc.) Not relevant for cells	
--	--



Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells and lithium polymer cells

State of Charge (SoC) max. 30 %		
---------------------------------	--	--

**CELLS INSTALLED IN EQUIPMENT**

Check point 17 needs to be answered when the cells are installed in articles: Mark N/A, pass or fail with an "X"	N/A	Pass	Fail
17c) Only button cells enclosed?		X	
17b) Number of enclosed cells (other than button cells) per equipment			
When the equipment is intentionally active/switched on during transport e.g. data loggers:			
17c) Confirmation that no dangerous amount of heat is emitted from the equipment		X	
17d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160		X	

Please mark the correct column with an X		
	X	
Single Cell or Battery	Build in Cell/ Battery	Over 100Wh
		

Place, Date	Title, Surname, First Name	Company stamp
Frankfurt, 11/12/2019	CEO Pekcan, Pascal 	 <p>Technaxx Deutschland GmbH &amp; Co. KG Kruppstr. 105 60388 Frankfurt a.M. Fon +49(0)69/90 47 55 2-0 · Fax -16</p>