

# 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>	
	TX-52

## *Manufacturer of cell*

Name	M-ONE PRODUCTS LTD
Address	
Phone	+0755 27960969 EXT:809
E-Mail	<a href="mailto:coco@moneltd.com">coco@moneltd.com</a> / <a href="mailto:moon@moneltd.com">moon@moneltd.com</a>
Website	www.moneltd.com

## *Manufacturer*

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	http://www.technaxx.de/

## *Test laboratory of cell*

<i>Name</i>	<i>Attestation of global compliance</i>
Address	Add: 2F., No.2 Building ,Huafeng No.1 Technical industrial Park, Sanwei, Xixiang, Baoan District ,Shenzhen
Phone	0755-29081955
E-Mail	agc@agc-cert.com
Website	www.agc-cert.com

## *ID-number and date*

<i>Unique test report identification number</i>	A001B20190811004
<i>Date of test report</i>	11 <sup>th</sup> .8.2019

## *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>	5g
<i>Lithium ion: Indicate watt-hour rating (Wh):</i>	0.444wh
<i>Lithium metal: Indicate lithium metal content in gram (g):</i>	

## *Physical description of cell*

--

## *Model numbers*

651520
--------

### TESTS AND RESULTS

<i>List of tests conducted and results</i> <i>- Mark N/A, pass or fail with an "X"</i>	<i>N/A</i>	<i>Pass</i>	<i>Fail</i>
<i>T1 - Altitude simulation</i>		<i>pass</i>	
<i>T2 - Thermal Test</i>		<i>pass</i>	
<i>T3 - Vibration</i>			
<i>T4 - Shock</i>		<i>pass</i>	
<i>T5 - External Short Circuit</i>		<i>pass</i>	
<i>T6 - Impact - for cylindrical cells having a diameter of at least 18 mm</i>	<i>N/A</i>		
<i>T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm</i>	<i>N/A</i>		
<i>T7 - Overcharge</i>		<i>Pass</i>	
<i>T8 - Forced Discharge</i>		<i>Pass</i>	

*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>	<i>Yes</i>	<i>No</i>
<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>	<i>YES</i>	
<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>		<i>NO</i>

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

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

**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?	N/A		
17b) Number of enclosed cells (other than button cells) per equipment	N/A		
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		pass	
17d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160	N/A		

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 and Signature
Frankfurt, 17/12/2019	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>