

# Lithium Cell/Battery Test Summary and Supplier Inquiry

In Accordance with Sub-Section 38.3 of UN Manual of Test and Criteria

## 1. Name of Cell / Battery

PolarCell Li-Ion Battery Nokia 5140 (replaces Nokia BL-5B)

## 2. Manufacturer of Cell / Battery

Name	Wannsee-Electronic GmbH
Address	Albert-Einstein-Ring 15, 14532 Kleinmachnow, GERMANY
Phone	+49 33203 884064
E-Mail	service@wannsee-electronic.de
Website	www.polarcell.de

## 3. Test Laboratory of Cell / Battery

Name	Precise Testing Service Corp.,Ltd
Address	Building 1, No. 6 Tongxin Road, Dongcheng Street, Dongguan City, Guangdong Province, China
Phone	+86 769 38808222
E-Mail	inquiry@ptc-testing.com
Website	www.ptc-testing.com

## 4. ID-Number and Date

Unique test report identification number:	PTC19081300301N-LD04	Date of Test Report:	2019/08/26
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## Description of Cell / Battery

### 5. Mark the type of Cell / Battery with an "X"

<input checked="" type="checkbox"/> Lithium Ion Cell	<input type="checkbox"/> Lithium Metal Cell
<input type="checkbox"/> Lithium Ion Battery	<input type="checkbox"/> Lithium Metal Battery
<input type="checkbox"/> Lithium Hybrid Battery	

### 6. Parameters

	Cell	Battery
Mass in gram (g):	20 g	
Lithium Ion: Indicate watt-hour rating (Wh):	4,07 Wh	
Lithium Metal: Indicate Lithium Metal content in gram (g):		
Lithium Hybrid: Indicate Lithium-Metal content in gram (g): and watt-hour rating (Wh):		

### 7. Physical Description of Cell / Battery

Lithium Ion rechargeable Battery (single Cell battery)

### 8. Model Number

EAN: 4250222700257

## Tests and Results

9. List of Tests conducted and Results	N/A	pass	fail
T1 – Altitude Simulation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T2 – Thermal Test	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T3 – Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T4 – Shock	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T5 – External Short Circuit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T6 – Crush	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T7 – Overcharge	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T8 – Forced Discharge	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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<b>1. Name of Cell / Battery</b>
PolarCell Li-Ion Battery Nokia 5140 (replaces Nokia BL-5B)

<b>10. Reference to assembled Battery Testing Requirements</b>
N/A

<b>11. Reference to the revised edition of the Manual of Tests and Criteria used and to Amendments thereto</b>
ST/SG/AC.10/11/Rev.6/Amend 1, 38.3 UN "Recommendations in the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria

<b>12. Quality Management System for Manufacturing Cells / Batteries</b>		
Does the Manufacturer of the Cell / Battery manufacture the products based on a documented quality management system according to transport regulations?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES

<b>13. Are the following Parameters exceeded?</b>		
Lithium Ion Cell: more than 20Wh	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
Lithium Ion Battery: more than 100Wh		
Lithium Metal Cell: more than 1g Lithium		
Lithium Metal Battery: more than 2g Lithium		
Lithium Hybrid Battery: more than 1,5g Lithium and/or more than 10Wh		

**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?	<input type="checkbox"/> NO	<input type="checkbox"/> YES
15. Is each Cell / Battery equipped with an effective means of preventing external short circuits?	<input type="checkbox"/> NO	<input type="checkbox"/> YES
16. Is each battery containing cells or series of cells connected parallel equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.)?	<input type="checkbox"/> N/A	<input type="checkbox"/> NO
	<input type="checkbox"/> NO	<input type="checkbox"/> YES

<b>17. Only in Air Transport: State of Charge (SoC) for UN 3480 Lithium Ion Cells / Batteries and Lithium Polymer Cells / Batteries</b>		
State of Charge (SoC) max. 30%	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES

<b>18. Place, Date</b>	<b>19. Title, First Name, Surname</b>	<b>20. Company Stamp and Signature</b>
Kleinmachnow, 30.12.2019	Dipl.-Ing. Vincent Mattstedt (CTO Wannsee-Electronic GmbH)	