

# UN 38.3 Test Summary Report

Lithium Cell or Battery Test Summary in Accordance with Section 2.9.4 UN Model Regulations and Sub-section 38.3 of the UN Manual of Tests and Criteria, Part III, subsection 38.3.5

[a] <input checked="" type="checkbox"/> Cell <input type="checkbox"/> Battery <input type="checkbox"/> Product <input checked="" type="checkbox"/> <b>Tested Type Part #:</b> TL-2450 <input type="checkbox"/> <b>Same Type Part #:</b>
[b] <b>Manufacturer</b> Tadiran Batteries Ltd. P.O. Box 1 Kiryat Ekron Israel 70500 T. +972 8 9 44 560 <a href="mailto:sales@tadiran-batt.com">sales@tadiran-batt.com</a> <a href="http://www.tadiran.com">www.tadiran.com</a>

[d] Unique report ID: 15Q-658
[e] Report date: 2016.03.01
[c] <b>Test Laboratory</b> Tadiran Batteries Ltd. P.O. Box 1 Kiryat Ekron Israel 70500 T. +972 8 9 44 560 <a href="mailto:sales@tadiran-batt.com">sales@tadiran-batt.com</a> <a href="http://www.tadiran.com">www.tadiran.com</a>

**Same Type Part Numbers # (all):** Pins (with insulation disc): 11 1 13763 02, Pins (without insulation disc): 11 1 13763 22, all other configurations with harness and cable of this cell with part number: 11 1 1376x xx

[f] (i) <input type="checkbox"/> Li-ion <input checked="" type="checkbox"/> Li-metal.  (iv) <b>Description:</b> Primary (non-rechargeable) 3.7 V Lithium Thionyl Chloride (Li-SOCl <sub>2</sub> ) battery, assembled from 1 (one) "1/10 C" sized TL-2450 cell. The TL-2450 cell may come with optional suffixes consisting of a "/" followed by one or more letters and a digit. These suffixes indicate different types of finishing to the cell (for example, S-Standard, T-Tab, P-Pin, etc.). Tadiran manufactures all cells/batteries under a quality management system as required under this regulation.  (ii) Mass: 8.8 g (iii) <input type="checkbox"/> Watt hour rating or <input checked="" type="checkbox"/> Lithium content: 0.2 g (v) <input checked="" type="checkbox"/> Cell <input type="checkbox"/> Battery <input type="checkbox"/> Product. Model number/Part number: TL-2450
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[g] List of Tests Conducted	Result (Pass / Fail / N.A.)	Test record reference
38.3.4.1 T.1: Altitude simulation	Pass	Page 5
38.3.4.2 T.2: Thermal test	Pass	Page 6
38.3.4.3 T.3: Vibration	Pass	Page 7
38.3.4.4 T.4: Shock	Pass	Page 8
38.3.4.5 T.5: External short circuit	Pass	Page 9
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	Page 10
38.3.4.7 T.7: Overcharge (N.A for Li-metal only)	N.A.	N.A.
38.3.4.8 T.8: Forced discharge (cell only test)	Pass	Page 11

[h] Battery assembly:  Not Applicable.  UN38.3.3 (f)  UN38.3.3 (g)  
 [i] Test Reference: UN Manual of Tests and Criteria, Part III, sub-section 38.3. *sixth revised edition*

[j] Signatory A. Date: 2018.02.12 Name: Marc Henn Title: Application Engineering Manager Signature: 
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[j] Signatory B. Date: 2018.02.12 Name: Olaf G. Lichtlein Title: General Manager Signature: 
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**Important!** The above signatory / signatories affirm that this document is a true and correct summary of the original individual tests and test data. The original test data is confidential information available to competent State Authorities with valid identification and only upon their formal request. Disclosure of the original test data to any other entity upon its request will be considered by Tadiran and, should Tadiran consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.